BOISE STATE UNIVERSITY

GRADUATE CATALOG

2001-2002

Welcome from the President

To all prospective and continuing graduate students, welcome to Boise State University.

BSU is a resource for the future, both for the State of Idaho and for you, the students, who enroll in its programs. Graduate education at BSU is the essence of vitality, intellectual stimulation, and the excitement of expanding your own talents and abilities.

Boise State is the home of internationally recognized scholars and research activities, award-winning teaching faculty, championship athletic teams, and a student body that is growing in numbers, diversification, and international scope.

The campus, bordered by the Boise River greenbelt, is beautifully maintained and provides a relaxed creative environment to promote your personal and intellectual growth. The campus is located within the largest metropolitan area of Idaho and attracts more than one million people annually to its cultural, entertainment, and sporting events.

I am pleased that you are considering or have chosen to join our university community.

My very best wishes for your success.

Charles P. Ruch
President

Graduate Catalog

Boise State University

2001-2002

POLICY STATEMENT CONCERNING CATALOG CONTENTS

The purpose of the Boise State Catalog is to provide current 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 matriculated 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 In particular, when an instructional program is to be withdrawn, the university will make every reasonable effort to ensure that students who are within two years of completing the graduation requirements, and who are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.

Boise State University
Graduate Admission Application

To be completed by students holding a bachelor's or higher degree. Please type or print clearly in ink. All entries must be answered. Those that do not apply, mark N.A. If you do not enroll in the semester noted below, you must contact Graduate Admissions before attempting to register for a subsequent semester. **Foreign students may not use this form. Please contact Foreign Student Admissions at 208-426-1757.**

DO NOT WRITE IN THIS COLUMN
ID
Fee
Plan
Action Reason
Residency
School Attended
Graduation Date

1. Semester you plan to enroll: _____ _____
(Fall, Spring, Summer) (Year)

2. Enrollment Status: ☐ Part-time (7 credit hours or less) ☐ Full-time (8 credit hours or more)

3. Degree Objective from list on back. Check only one and enter here: _____

4. Full Legal Name _____
Last Name First Name Middle Name

Previous Names _____ Preferred First Name _____

5. Social Security Number _____ **6.** Date of Birth: _____

7. Permanent Address _____
Address City State Zip Code

8. Mailing Address _____
Address City State Zip Code

9. E-mail Address _____

10. Telephone Number: Eve. (_____) _____ Day (_____) _____

11. Gender: ☐ Male ☐ Female

12. Will you have been a legal resident of the State of Idaho for the 12 months prior to the start of the semester checked in #1? ☐ Yes ☐ No
(Please refer to the Graduate Catalog for definitions of legal residency for tuition purposes.)

If NO, state of legal residence _____ If NO, date continuous residence in Idaho began _____

13. Citizenship _____ If not a US citizen, please include a copy of your Resident Alien Card.
(US or other)

14. Ethnic Origin (check one): ☐ American Indian ☐ Asian ☐ Black ☐ Hispanic ☐ White ☐ I do not care to respond

15. Have you previously applied to Boise State University? ☐ Yes ☐ No

16. Have you previously enrolled at Boise State University? ☐ Yes ☐ No If Yes, when? _____

17. Colleges or Universities (including Boise State) attended: Failure to list all institutions attended is considered fraud and subjects applicant to cancellation of registration and dismissal from the university.

Name of Institution	City & State	Dates Attended—Month/Year From	To

18. College or University Degrees held:

Type (B.A., B.S., etc.)	College or University	Major Field	Date Received

I certify that the statements in this application are true and I understand that prior to enrolling, I need to submit this completed application, a $20 non-refundable application fee, and have official transcripts sent directly from each post-high school institution attended (other than Boise State) directly to the Graduate Admissions Office. (Students pursuing general graduate study need to submit an official transcript from the institution which granted their highest degree). I understand that any misrepresentation or omission of facts will be cause for denial of admission or dismissal from the University.

Full Legal Signature of Applicant

_____ Date _____

RETURN TO: Graduate Admissions Office, Boise State University, Math/Geoscience 141, 1910 University Drive, Boise, ID 83725.
Telephone (208) 426-3903 or 426-4204. Toll-free in Idaho 1-800-632-6586. Toll-free nationwide 1-800-824-7017.

ON-LINE APPLICATION: http://www.boisestate.edu/gradcoll

Degree Objectives

Degree Seeking Graduate

- ☐ EdD in Curriculum & Instruction
- ☐ PhD in Geophysics
- ☐ MS in Accountancy
  - ☐ Taxation

MA in Art
- ☐ Art Education
- ☐ Visual Arts

- ☐ MPE in Athletic Administration (ISU)
- ☐ MA in Biology
- ☐ MS in Biology
- ☐ Master of Business Administration
- ☐ MA in Communication
- ☐ MS in Computer Science
- ☐ MFA in Creative Writing
- ☐ MA in Criminal Justice Administration
- ☐ MS in Earth Science

MA in Education
- ☐ Curriculum & Instruction
  - ☐ Bilingual Education Option
  - ☐ ESL Option
  - ☐ Secondary Certification Option
  (Emphasis _____)
- ☐ Early Childhood
- ☐ Reading
- ☐ Special Education

MS in Education
- ☐ Educational Technology
- ☐ Mathematics

MS in Engineering
- ☐ Civil Engineering
- ☐ Computer Engineering
- ☐ Electrical Engineering
- ☐ Mechanical Engineering

- ☐ MA in English
- ☐ MS in Exercise and Sport Studies
- ☐ MS in Geology
- ☐ MS in Geophysics

Master of Health Science
- ☐ Environmental Health
- ☐ General Research
- ☐ Health Policy
- ☐ Health Promotion
- ☐ Health Services Leadership
- ☐ Substance Abuse

MA in History
(Fall Admission only)
- ☐ Applied
- ☐ Education
- ☐ Research

- ☐ MS in Instructional & Performance Technology
- ☐ MA in Interdisciplinary Studies
- ☐ MS in Interdisciplinary Studies
- ☐ MS in Management Information Systems

Master of Music
- ☐ Education
- ☐ Pedagogy
- ☐ Performances

- ☐ Master of Public Administration
- ☐ MS in Raptor Biology
  (Fall Admission only)
- ☐ MA in School Counseling
  (Fall Admission only)
- ☐ Master of Social Work
  (Summer or Fall Admission only
- ☐ MA in Technical Communication
- ☐ Master of Fine Arts, Visual Arts

Non-Degree Seeking Graduate

- ☐ General Graduate Study (Non-education courses)
- ☐ General Graduate Study (Education courses)

Revised 3/2001

University and Graduate Policies and Services

Graduate Programs

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 day 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 an outside 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.** 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 processes 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 8, Friday ..... **Last day to submit *Application for Graduate Degree* and *Admission to Candidacy* forms to the Graduate Admissions Office for graduate degree to be awarded in August.**

June 11, Monday ..... Classes begin for first 5-week, and 10-week sessions.

June 14, Thursday ..... Last day for 100% refund for dropping a first 5-week session class or withdrawing from the University (minus $25 administrative processing fee and any late fees assessed).

June 15, Friday ..... 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 session; students who do not plan to attend must cancel by this date.

July 13, Friday ..... **Last day to submit final signed copies (2) of project or thesis, or dissertation to Graduate Dean's Office for August graduation.**

July 16, Monday ..... Classes begin for second 5-week session.

July 19, Thursday ..... Last day for 100% refund for dropping a second 5-week session 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 ends.

August 21, Tuesday ..... Grade reports due to Registrar by Noon.

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 processed by a federal agency and must be received by the BSU Financial Aid Office by March 4 for consideration of need-based scholarships.

February 1, Thursday ..... Date by which *BSU Supplemental Scholarship Application* must be received in the Financial Aid Office to be considered for 2001- 2002 merit and need-based scholarships.

March 1, Thursday ..... Last recommended date to mail the *Free Application for Federal Student Aid* (FAFSA) and supporting documents for best chance of receiving 2001-2002 grants, work-study, loans and waivers of non-resident 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 non-resident 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 all international student application materials to be received for fall semester consideration.

June 14-16, 18-22, 25-29 ..... Registration for new, readmitted, and transfer students.

July 18, Wednesday ..... **Last day for graduate students to submit applications, transcripts and other materials to the Graduate Admissions Office for fall semester. Applications received after this date might not be processed in time to admit students to degree or certification programs.**

July 18-20 & 28 ..... Registration for new, readmitted, and transfer students.

August 7-10 ..... Registration for nondegree-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 by this date.

August 24, Friday ..... Residence Halls open (Noon).

August 27, Monday ..... **Classes begin. First day $10 fee assessed for each Fall 2001 course dropped or withdrawn.**

August 31, Friday ..... **Last day to submit *Application for Graduate Degree* and *Admission to Candidacy* forms to the Graduate Admissions Office for graduate degree to be awarded in December.**

August 31, Friday ..... Weekend University classes begin. Last day for faculty initiated drops for nonattendance during the first week of the semester to be turned into the Registrar's Office. Last day to drop a first 5-week or 8-week block class without a 'W' appearing on the transcript.

September 3, Monday ..... 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, add classes, change from credit to audit or audit to credit, or drop a class without a 'W' appearing on the transcript.** Last day for 100% refund for dropping a class or withdrawing from the University. Last day to waive student health insurance. 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 graduate 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 project, thesis or dissertation credit, directed research, practicum, or internship.** 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 for December graduation.**

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

Spring Semester 2002

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

October 15, Monday .....Priority deadline for all international student application materials to be received for spring semester consideration.
October 29-November 21 .....Registration for continuing students for spring semester 2001.
November 29, Thursday.....**Last day for graduate degree-seeking applicants for spring semester to submit all application materials to the Graduate Admissions Office. Applications received after this date might not be processed in time to admit students to degree or certification programs.**
December 11-January 11.....Registration continues 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 by this date.
January 12, Saturday.....Residence halls open at Noon.
January 14, Monday.....**Classes begin.**
January 18, Friday.....**Last day to submit *Application for Graduate Degree* and *Admission to Candidacy* forms to the Graduate Admissions Office for graduate degree to be awarded in May.** Weekend University classes begin. Last day for faculty initiated drops for nonattendance during the first week of the semester to be turned into the Registrar's Office. Last day to drop a first 5-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 to add classes.
January 28, Monday.....**Last day to register or add classes.** Last day to change from credit to audit or audit to credit. Last day to drop a class without a "W" appearing on the transcript. Last day for 100% refund for dropping a class or withdrawing from the University. Last day to waive student health insurance. Last day to drop first 5-week block classes.
February 1, Friday.....Date by which "BSU Scholarship Application" must be received by the Financial Aid Office to be considered for 2002-2003 merit and need-based scholarships.
February 4, Friday.....Last day to drop first 8-week block classes.
February 18, Monday.....Presidents 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 project, thesis, or dissertation credit, directed research, practicum or internship.**
February 25, Monday.....Last day to drop a second 5-week block class without a "W" appearing on the transcript.
March 1, Friday .....Last recommended 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 non-resident tuition, (The FAFSA is processed by a federal agency and must be received by the BSU Financial Aid Office by April 1.) Students applying after this date may not have financial aid available in time to assist with fall semester fee payment.
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 .....**Final day for written exam for graduate degrees.**
March 25-31, Mon-Sun .....Spring vacation.
April 1, Monday.....Third 5-week block classes begin. Date by which all materials must be received by 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 to assist with fall fee payment.
April 1-26 .....Registration for continuing students for summer/fall 2002.
April 5, Friday.....**Last day for final oral, project, thesis, or dissertation defense for May graduation.** Last day to drop second 8-week block classes. 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 or thesis, or dissertation to Graduate Dean's Office for May graduation.** 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, Mon-Thurs .....Final semester examinations (exam schedule listed in Spring *BSU Directory of Classes.*)
May 17, Friday.....Residence halls close at Noon.
May 18, Saturday.....**Commencement.**
May 20, Monday.....Grade reports due to Registrar 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 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/drop by this date.
June 10, Monday.....Classes begin for first 5-week, 8-week, 10-week sessions.
June 14, Friday.....**Last day to submit *Application for Graduate Degree* and *Admission to Candidacy* forms to Graduate Admissions Office for graduate degree to be awarded in August.**
June 28, Friday.....**Last day for final oral, project, thesis, or dissertation defense for August graduation.**
July 4, Thursday.....Independence Day Holiday (no classes - University offices closed).
July 11, Thursday.....**Fee payment deadline for second 5-week session.** Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
July 12, Friday .....**Last day to submit final signed copies (2) of project or thesis or dissertation to Graduate Dean's Office for August graduation.**
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 by Noon.

Boise

Boise—Idaho's state capital and center of business—is the largest metropolitan center 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. A growing city of more than 186,000 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. 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 19-mile 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, camping—are available only a short distance from campus.

The city and campus offer many cultural opportunities, such as the Boise Philharmonic, Ballet Idaho, 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 education, technology, and the health professions and the physical and biological sciences related to the health professions, while maintaining basic strengths in the sciences and liberal arts.

The University's History

In 1932, the Episcopal Church founded Boise Junior College, the first post-secondary school in Idaho's capital. When the Episcopal Church discontinued its sponsorship in 1934, Boise Junior College became a nonprofit, private corporation, sponsored by the Boise Chamber of Commerce and by the community. In 1939, the State Legislature created a junior-college taxing district to fund the college through local property taxes. By the end of the 1930s, Boise Junior College boasted an enrollment of 600 students. Originally located at St. Margaret's Hall, near the present site of St. Luke's Regional Medical Center, the school was moved in 1940 to its present location alongside the Boise River. In 1965, Boise Junior College became a four-year institution and was renamed Boise College. In 1969, the school was brought into the state system of higher education and the Graduate College was established. In 1971, two master's programs were approved; the Master of Business Administration and the Master of Arts in Elementary Education. In 1974, Boise State College became Boise State University, and in the following year the university established the Master of Public Administration. That same year, the Master of Arts in Education program was expanded to include options in secondary education.

The University now has 33 master's programs with 26 areas of emphasis and two doctoral programs, the Doctor of Education in Curriculum and Instruction (1994) and the Doctor of Philosophy in Geophysics (2000). Graduate student enrollment continues to increase steadily and currently more than 3,300 students are enrolled through the Graduate College.

During its 69-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
- 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
- Computing Science Accreditation Commission
- Council on Social Work Education
- Idaho State Board of Nursing
- International Association of Counseling Services
- International Association for Management Education (AACSB)
- Joint Review Committee on Education in Radiologic Technology
- Joint Review Committee on Respiratory Therapy Education
- National Association of Schools of Music
- National Association of Schools of Public Affairs and Administration
- National Association of Schools of Theater
- National Association of State Directors of Teacher Education and Certification
- National Athletic Trainers Association, Inc.
- 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.

The Graduate Faculty consists of full-time faculty members approved by the Graduate Council to teach graduate-level courses, supervise graduate students, and participate in conducting graduate programs. Some part-time faculty members are appointed as members of the Adjunct Graduate Faculty; they are approved by the Graduate Council to teach graduate courses or serve on graduate committees. Of the 490 individuals who make up the Graduate Faculty, 97% possess a terminal degree.

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**, the **Gateway Center** for academic support and student orientation, 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, the **Engineering Technology Building** contains modern classrooms and laboratories—many equipped with computers—for use in engineering, construction management, and other technical programs. Both the **Education Building** and the **Liberal Arts Building** offer comfortable, well-equipped classrooms and computer labs, as do the **Math/Geosciences Building**, the **Public Affairs/Art West Building**, and the new **Multi-Purpose Classroom Building** opened in Fall 1997 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 computer store, 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** is located in **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 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 government publications
- 1,363,000 microform pieces

You may use **Catalyst**, the Library's computerized catalog, to quickly identify material which the Library owns. You can log-on to Catalyst from outside of the Library as well as from within. You can gain access to Catalyst and a host of other resources through the Albertsons Library website (http://library.boisestate.edu).

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, Canadian Federal, and Idaho State publications. The Library also has a **Map Collection** which not only covers a wide array of subjects; but also, is very detailed in its coverage of Idaho.

The **Reference Area** contains a large collection of magazine indexes, in both paper and CD-ROM formats; and an extensive collection of handbooks, encyclopedias, dictionaries, as well as 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 information about, and assistance in, the use of the entire library.

The **Special Collections** area contains manuscript collections, rare books, and the university archives. In addition to housing the papers of Senators Len B. Jordan, 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 an extensive collection of books and materials about the literature, art, economics, history and other aspects 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 which allows access to the campus network or the Internet.

BSU provides e-mail accounts for students that can be accessed from on campus. An application for this service may be obtained from the Office of Information Technology, Business Building, Room 116. 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 graduate student at Boise State University, you will have the opportunity to increase your computer skills—in fact, you will be expected to do so. For more information about the computer skills required in your discipline, please consult your graduate program coordinator.

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, volleyball, men's and women's basketball, men's and women's cross country and track and field, gymnastics, men's and women's golf, men's and women's tennis, and women's soccer. The university competes in the PAC-10 in wrestling and independently in women's gymnastics.

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 its 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 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.

Introduction

This catalog describes Boise State University's student policies, services, graduate degree programs, admission requirements, graduation requirements, and other topics of interest to graduate students. Additional information may be found in the brochures, newsletters, fliers, and other materials produced by departments offering graduate programs; to request such information, contact the department chair or the coordinator of the graduate program that interests you.

In addition, you will find much useful information in the *BSU Student Handbook*, which contains:

- Directory of campus offices
- Academic calendar
- Complete descriptions of services for students
- Information about campus organizations and recreation
- Student policies and procedures

You should consult, as well, the *BSU Directory of Classes*, which contains:

- Courses offered for the current semester
- Academic calendar and final examination schedule
- Fee schedules and refund policies
- Instructions relating to academic advising, registration procedures, and academic regulations

Changes made to this catalog since publication will be reflected in the on-line catalog found at http://www.boisestate.edu/gradcoll.

System for Numbering Courses

Only courses numbered 500 or higher carry graduate credit, while courses numbered 600 and higher carry graduate credit at the doctoral level. Graduate students may earn graduate credit in courses numbered at the 300 or 400 level. BSU designates such courses with a "G", as in *E-402G, Advanced Technical Communication*. Finally, in a course designated with a "G," any student enrolled for graduate credit is required to complete extra work, beyond that required of students taking the course for undergraduate credit.

NOTE: Your department has the right to limit the number of "G" credits you can count toward a degree offered within the department. In any event, no more than one-third of the credits used to fulfill graduation requirements for a graduate degree program may be in courses at the 300G or 400G level.

Following the number and title of a course is the course code, consisting of three numbers set inside parenthesis, with each number separated from the others with hyphen, as in *(3-0-3)*. The course code specifies how many:

- classroom hours the course requires each week
- laboratory hours, studio hours, field hours, or other special hours the course requires each week
- credits a student earns after successfully completing the course

The following list shows some typical variations of the basic course code:

(3-0-3)
: A course requiring three classroom hours (3), with no lab, studio, or other special hours (0), carrying three credits (3).

(3-4-5)
: A course requiring three classroom hours and four laboratory or studio hours, carrying five credits.

(0-4-0)
: Laboratory hours, with no classroom hours or credits (usually linked to another course that requires the laboratory).

(0-2-1)
: No classroom hours, but instead two hours per week of studio art or perhaps a fitness activity, carrying one credit.

In addition to the classroom hours, lab hours, and credits, the course code may also specify the academic period in which the course is offered. The following list illustrates these conventions:

(F)	Offered only during fall semester.
(S)	Offered only during spring semester.
(F,S)	Offered during both fall semester and spring semester.
(F/S)	Sometimes offered only during fall semester, or only during spring semester, or during both fall and spring.
(F,SU)	Offered only during fall semester and summer session.
(S,SU)	Offered only during spring semester and summer session.

If none of these indicators appears alongside the code, then the course is offered during fall semester, spring semester, and summer session.

Entries in this catalog may consist of two course numbers with a hyphen in between; the hyphen signifies that the first course is a prerequisite to the second. However, if a comma appears between the two course numbers, then either course may be taken independently of the other.

Other authorized abbreviations are:

PREREQ:	Prerequisite: You must take Course A before you may take Course B.
COREQ:	Corequisite: You must take both Course A and Course B concurrently.
PERM/INST:	You must have the instructor's permission to take the course.
PERM/CHAIR:	You must have the department chair's permission to take the course (or the permission of the chair's representative).

University Wide Course Numbers

The following numbers are the same for all graduate programs. These courses may be offered for variable credit. Your supervising professor or committee will determine which credits may apply to your graduate program.

580-589 SELECTED TOPICS Subjects normally offered and studied in one department can be divided into as many as 10 areas. Each area will be assigned one number of the 580-589 group. Although the topics considered in the courses in any one area may vary from semester to semester, repeated use of any one number implies that the topics continue to be selected from the same area.

590 PRACTICUM/INTERNSHIP To earn graduate credit you must have a 3.00 cumulative GPA and no more than 12 credits may be applied toward a graduate degree or second undergraduate degree. Some graduate programs, however, accept only 3 internship credits. Practicum/Internship cannot be repeated to improve a grade.

Note: An undergraduate internship is an entry level job experience related to the discipline. The graduate intern already has an undergraduate degree and the intern's job requires a higher level of responsibility and decision-making authority. The internship should have a higher level of accomplishment.

591 PROJECT Identification and presentation of an educational need through systematic study and the fulfillment of that need by the development of a usable product; such as, an audio-visual unit, a curriculum guide or resource unit, a collection of teaching strategies, or the preparation of a handbook or computer software. Graded A through F or Pass/Fail.

592 COLLOQUIUM An informal meeting to discuss research, creative works or presentations on specialized topics within a broad field of study. Each meeting is usually led by a different presenter.

593 THESIS The presentation of research or creative activity that demonstrates the student's ability to conduct an independent investigation, collect and analyze data, apply critical and creative thinking and present the results in a clearly written and scholarly manner. Graded A through F or Pass/Fail.

594 EXTENDED CONFERENCE OR WORKSHOP Used for courses meeting more than 3 weeks. Graded A through F or Pass/Fail. Workshop credits may not transfer.

595 READINGS AND CONFERENCE The conduct of topical research, assigned readings or literature review.The faculty advisor and the student prepare and sign an agreement describing the amount and type of work to be accomplished.

596 DIRECTED RESEARCH Graduate programs may include directed research credits at the discretion of your supervising professor or graduate committee. Master's students may earn a maximum of 9 credit hours with no more than 6 in a given semester or session, while doctoral students may earn a maximum of 12 credit hours.

597 SPECIAL TOPICS These are courses on topics of timely, special or unusual interest not contained in the regular catalog courses of a graduate program. Descriptions for these courses are given in the Directory of Classes published each semester.

598 SEMINAR Small group meetings for the exchange of ideas, debate of issues, or presentation of research. Format, conduct, and purpose of seminars varies widely among disciplines.

599 SHORT TERM CONFERENCE OR WORKSHOP Used for courses meeting 3 weeks or less. Graded A through F or Pass/Fail. Workshop credits may not transfer.

693 DISSERTATION The doctoral dissertation should reveal the student's ability to analyze, interpret, and synthesize research data; demonstrate thorough knowledge of the literature relating to the project and acknowledge prior scholarship on which the dissertation is built; describe the methods and procedures used; present results in a sequential and logical manner; display the student's ability to discuss fully and articulately the meaning of the results; and produce an academically sound and defensible scholarly product written in credible literary form. The dissertation topic must be approved in advance by the student's committee. The committee will also provide guidance and direction to the student during the course of the research activity and the writing of the dissertation. Prior work not approved or supervised by the committee is not acceptable for a doctoral dissertation. The dissertation must be the independent work of the individual author and must be a significant contribution to the body of knowledge of the field. The dissertation, or one or more substantial parts of it, often rewritten, is expected to be published. Graded A through F or Pass/Fail.

Graduate College

Dr. Kenneth M. Hollenbaugh, Dean
Graduate College and Research
Math/Geosciences Building, Room 140
Boise, Idaho 83725-1110
Telephone 208 426-3647
FAX 208 426-4061

Brian Newkirk, Manager
Graduate Admissions Office
Math/Geosciences Building, Room 141
Telephone 208 426-3903/4204
FAX 208 426-4061
http://www.boisestate.edu/gradcoll
e-mail: gradcoll@boisestate.edu

Graduate Degrees and Programs Offered at BSU

Graduate Degrees	Graduate Degree Programs	Graduate Program Coordinators
Ed.D.	Doctor of Education in Curriculum and Instruction	Lamont Lyons, Ed.D.
Ph.D.	Doctor of Philosophy in Geophysics	John R. Pelton, Ph.D.
M.S.	Master of Science in Accountancy Taxation	 Phillip Fry, Ph.D.
M.A.	Master of Arts in Art	Richard Young, M.F.A. Heather Hanlon, Ed.D.
M.A./M.S.	Master of Arts/Science in Biology	Alfred Dufty, Ph.D.
M.B.A.	Master of Business Administration	Phillip Fry, Ph.D.
M.A.	Master of Arts in Communication	Marvin Cox, Ph.D.
M.S.	Master of Science in Computer Science	Alex Feldman, Ph.D.
M.A.	Master of Arts in Criminal Justice Administration	Andrew Giacomozzi, Ph.D.
M.S.	Master of Science in Earth Science	Walter Snyder, Ph.D.
M.A.	Master of Arts in Education Curriculum and Instruction Elementary Teachers Secondary Teachers Bilingual/ESL Secondary Certification Early Childhood Reading Special Education	 Rickie Miller, Ph.D. Lamont Lyons, Ed.D. Jay Fuhriman, Ed.D. Lamont Lyons, Ed.D. Judy French, Ph.D. Stan Steiner, PhD. Melinda Lindsey, Ph.D.
M.S.	Master of Science in Education Educational Technology Mathematics	 Carolyn Thorsen, Ph.D. Sharon Walen, Ph.D.
M.S.	Master of Science in Engineering Civil Engineering Electrical and Computer Engineering Mechanical Engineering	 Stephen Affleck, Ph.D. Gary Erickson, Ph.D. John Gardner, Ph.D.
M.A.	Master of Arts in English	Carol A. Martin, Ph.D.
M.S.	Master of Science in Exercise and Sport Studies	Ronald Pfeiffer, Ph.D.
M.F.A.	Master of Fine Arts in Creative Writing	Robert Olmstead, Ph.D.
M.F.A.	Master of Fine Arts, Visual Art	Richard Young, M.F.A.
M.S.	Master of Science in Geology	C. J. Northrup, Ph.D.
M.S.	Master of Science in Geophysics	John R. Pelton, Ph.D.

— continued—

It has been my privilege and pleasure to have served the students, faculty, Boise State University, and the State of Idaho since 1968.

Beginning in 1975, my role as Graduate Dean has enabled me to assist in the creation and development of 33 master's degree programs with 26 areas of emphasis, plus doctoral programs in education and geophysics.

If you choose Boise State as your university for pursuit of graduate courses or a graduate degree, you will be the beneficiary of many years of dedicated effort by countless faculty, staff and a most supportive administration that have created a tradition of program excellence, superior academic performance, strong advocacy for student success, and an environment of collegiality in which to achieve your goals.

Kenneth M. Hollenbaugh, Ph.D.
Retiring Dean, Graduate College and Research

Graduate Degrees	Graduate Degree Programs	Graduate Program Coordinators
M.H.S.	Master of Health Science Environmental Health General Research Health Policy Health Promotion Health Services Leadership Substance Abuse	James Girvan, Ph.D.
M.A.	Master of Arts in History Applied Education Research	Shelton Woods, Ph.D.
M.S.	Master of Science in Instructional & Performance Technology	Mark Eisley, Ph.D.
M.A./M.S.	Master of Arts/Science in Interdisciplinary Studies	Kent Neely, Ph.D.
M.S.	Master of Science in Management Information Systems	Phillip Fry, Ph.D.
M.M.	Master of Music Music Education Performance Pedagogy	Jeanne M. Belfy, Ph.D.
M.P.E.	Master of Physical Education in Athletic Administration	Ronald Pfeiffer, Ph.D.
M.P.A.	Master of Public Administration General Public Administration Environmental and Natural Resources Administration State and Local Government Policy and Administration	James B. Weatherby, Ph.D.
M.S.	Master of Science in Raptor Biology	Stephen Novak, Ph.D.
M.A.	Master of Arts in School Counseling	Margaret Miller, Ph.D.
M.S.W.	Master of Social Work	Martha Wilson, Ph.D.
M.A.	Master of Arts in Technical Communication	Mike Markel, Ph.D.

Boise State University Administration

Charles P. Ruch, President 208 426-1491
Daryl E. Jones, Provost and Vice President for Academic Affairs 208 426-1202
Stephanie Witt, Associate Vice President for Academic Affairs 208 426-4421
Harry E. Neel, Jr., Vice President for Finance and Administration and Bursar 208 426-1200
Vacant, Vice President for Institutional Advancement
Vacant, Vice President for Research
Peg Blake, Vice President for Student Affairs 208 426-1418
Larry Barnhardt, Dean, College of Applied Technology 208 426-2238
Phillip M. Eastman, Dean, College of Arts and Sciences 208 426-1414
William Lathen, Dean, College of Business 208 426-1125
Joyce Garrett, Dean, College of Education 208 426-1134
Lynn Russell, Dean, College of Engineering 208 426-1153
Kenneth M. Hollenbaugh, Dean, Graduate College and Research 208 426-3647
James A. Taylor, Dean, College of Health Science 208 426-4116
Suzanne McCorkle, Interim Dean, College of Social Sciences and Public Affairs 208 426-3776
Joyce Harvey-Morgan, Dean, Division of Extended Studies 208 426-3706

Information Resources

Mailing Address, Boise State University,
1910 University Drive, Boise, Idaho 83725
General Information, 208 426-1011
Toll-free nationwide, 800-824-7017
URL, http://www.boisestate.edu
Albertsons Library, 208 426-1204
BSU Bookstore, 208 426-2665
Student Union Building
Career Center, 208 426-1747
1173 University Drive
Counseling and Testing Center, 208 426-1601/1661
Education Building, Room 605
Extended Studies, 208 426-1709
1015 Grant Avenue
Financial Aid, 208 426-1664
Administration Building, Room 113
Graduate Admissions, 208 426-3903/4204
Math/Geosciences Building, Room 141
Graduate College and Research, 208 426-3647
Math/Geosciences Building, Room 140
Graduate Dean, 208 426-3647
Math/Geosciences Building, Room 140
Health and Wellness Center, 208 426-3986
2103 University Drive
International Student Admissions, 208 426-1757
Administration Building, Room 107
New Student Information Center, 208 426-1820
Student Union Building, Northeast Entrance
Payment and Disbursement Center, 208 426-1212/4148
Administration Building, Room 211
Registrar, 208 426-4249
Administration Building, Room 102-110
Student Housing, 208 426-3986
Administration Building, Room 214
Student Special Services, 208 426-1583/1679
Administration Building, Room 114
Student Union Information Desk, 208 426-4636
1700 University Drive

Idaho State Board of Education

Members,
Karen McGee, Pocatello, President
Blake G. Hall, Idaho Falls, Vice President
James Hammond, Post Falls, Secretary
Curtis H. Eaton, Twin Falls
Roderic W. Lewis, Boise
Darrell V. Manning, Boise
State Superintendent of Public Instruction,
Marilyn Howard, Boise
Executive Director, Office of the State Board of Education,
Gregory G. Fitch, Boise

University and Graduate Policies and Services

If you have questions about these policies:

Contact the Registrar's Office
Administration Building, Room 102
Telephone 208 426-4249

General Policies

This chapter defines the general policies governing the following matters:

- your rights and responsibilities as a student
- student records
- enrollment status
- academic honesty and dismissal
- acceptable academic performance
- course repeat policy
- administrative withdrawal from BSU
- 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 at http://www2.boisestate.edu/sss/studhb.htm, while the *BSU Administrative Handbook* is available for inspection at administrative offices (including the Graduate Dean's Office, Math/Geosciences Building, Room 140) or http://www.boisestate.finad.busforms.html.

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

You can obtain a copy of the *BSU Student Handbook* at http://www2.boisestate.edu/sss/studhb.htm.
It is the responsibility of each student to become familiar with the *BSU Student Handbook* and the policies and procedures that affect them as a graduate student enrolled at Boise State University.

Student Records

The Graduate Admissions Office maintains a permanent file for each student who has applied for admission to the Graduate College; your file will contain your application for admission, official transcripts, test scores, and any correspondence related to that application. Another file at the Registrar's Office contains your permanent transcript record and all materials that document that transcript record. And, your faculty advisor will maintain a file of advising records, grade 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. You must make your request either in writing or in person and show your photo ID. 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 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. The telephone number is 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 local telephone number
- your major field of study
- the dates you attended BSU

- your student classification
- 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 release 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.

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 returning 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.

Address Changes

Whenever BSU policies or procedures call for a University office to send written communication to a student, that obligation is fulfilled when that 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. Former 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).

Verification of Your Enrollment Status

Every day, BSU responds to 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 1.

Table 1.
Schedule Used to Determine Enrollment Status for Federal Financial Aid

Number of Graduate Credits (currently enrolled)	Enrollment Status
9 or more	Full-Time
6	Three-Quarter-Time
5	Half-Time
4 or fewer	Less than Half-Time

Note: If you are taking a combination of graduate and undergraduate courses, a different formula is applied. Please contact the Registrar's Office at 208 426-4249 for further information.

Note: If you are receiving financial aid, please read the chapter on Financial Aid for additional enrollment requirements to maintain your financial aid eligibility.

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.

Academic Honesty and Dismissal

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:

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

Responding to academic dishonesty is the responsibility of the instructor of the course in which the dishonesty occurs. If plagiarism or other academic dishonesty is committed during the course of thesis, project, or dissertation work, the research advisor, in consultation with the student's committee and the Graduate Dean, shall determine the appropriate response.

A student guilty of academic dishonesty may be dismissed from the class, may receive a failing grade, or may be dismissed from the university.

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

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

Acceptable Academic Performance

BSU expects all graduate students to strive toward—and attain—academic excellence. If your academic performance is unsatisfactory, you may be withdrawn from the degree program by the Dean of the Graduate College, acting on the recommendation of your department.

To be eligible to receive a degree from the Graduate College, you must have a grade-point average (GPA) of 3.00 (B) or better in all graduate work specific to your program of study. You must receive a grade of A or B in a 300G- or 400G-level course in order to count those credits toward your graduate degree. Finally, you cannot count grades below C to meet any requirement of a graduate degree program.

If you are seeking a graduate degree and you earn a cumulative GPA of less than 3.00 for two consecutive semesters, you will be withdrawn from the graduate program and academically disqualified from any further graduate courses at BSU.

Course Repeat Policy

If you receive a final grade of D in a 300G-, 400G-, 500- or 600-level course required for your graduate degree, you may attempt to improve the grade by repeating the course only one time. If that attempt is unsuccessful, you will be withdrawn from the graduate program and academically disqualified from any further graduate level work. The course must be repeated the next semester you are enrolled and the course is offered or you will waive your right to repeat the course. If not enrolled, a "D" will stand indefinitely.

If you receive a final grade of F in a 500- or 600-level course required for your graduate degree, you cannot retake the course. You will be withdrawn from the graduate program and academically disqualified from any further graduate courses at BSU.

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. In performing its function as an institution of higher learning, BSU may administratively withdraw any student who interferes with the university's ability to perform that function. In addition, students may be administratively withdrawn for a variety of other reasons, including the following:

- falsifying or omitting required information on a graduate admissions application or other university record or document
- failure to submit all required graduate admissions materials within two semesters
- failure to pay deferred fee payments, library fines, overdue loans, housing accounts, or other charges
- failure to respond to an official summons issued by the university
- exhibiting behavior that constitutes a clear and present danger to themselves or to others

To initiate an administrative withdrawal, the graduate program coordinator or department chair must submit a letter to the Graduate Dean justifying the withdrawal of the student. The Graduate Dean will complete the withdrawal procedure in cooperation with the Registrar's Office. Please refer to the sections on Acceptable Academic Performance and Course Repeat Policy for more information on withdrawals.

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.

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 be reviewed by the Graduate Dean and by the University Appeals Committee if appropriate. 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.

If you have questions about these policies:

Contact Graduate Admissions Office
Math/Geosciences Building, Room 141
208 426-3903 or 426-4204
FAX 208 426-4061
http://www.boisestate.edu/gradcoll
e-mail: gradcoll@boisestate.edu

International Admissions Office
Administration Building, Room 107
208 426-1757
http://www.boisestate.edu/admissions

Application Deadlines

You are strongly encouraged to submit all graduate application materials seven to nine months in advance of the date that you plan to enroll, but applications will be accepted anytime before the deadline dates listed below. Deadlines for all applicants seeking admission as degree-seeking students are as follows:

Fall Semester 2001: July 18, 2001
Spring Semester 2002: November 21, 2001
Summer Sessions: One week before classes begin

Note: Some programs have an earlier deadline. Please check specific program listing for deadlines.

These deadlines are strictly enforced. Therefore, you must ensure that the Graduate Admissions Office receives all of your application materials before the admission deadline.

If you fail to do so, you may still be admitted to the university although you will not have an opportunity to register during the priority registration period. If you are a degree-seeking student, your admission by the first day of the semester cannot be guaranteed.

NOTE: You should apply for some types of financial aid—such as assistantships—when you apply for admission. For further information, see the chair of the department offering the financial aid, or see the coordinator of the graduate program within that department. Most deadlines for applying for financial aid are March 1 or earlier, and are noted in the section entitled "Financial Aid for Graduate Students."

General Admission Policies

To be admitted to the Graduate College, you must hold at least a bachelor's degree from an accredited institution and you must have a cumulative grade-point average of at least 3.00 on a 4.00-point scale for all undergraduate credits, or a 3.00 GPA for the last 60 credits of undergraduate course work.

In addition, if you have attended another institution as a graduate degree seeking student but did not complete the degree, you must demonstrate that you departed that institution in good academic standing in order to be eligible for admission to a graduate degree program at BSU.

Initially, your admission status will be indicated as Pending Department Review, which means that you have been admitted to the Graduate College but have not yet been admitted to a graduate degree program. You retain this status until you have been accepted into a graduate degree program, and you may be able to take classes while awaiting acceptance. *You will not be eligible for federal financial aid while your admission status is Pending Department Review.*

When you are admitted to a graduate degree program, your status changes to either Regular, Provisional, or Conditional. Regular status indicates that you have been accepted with full graduate standing. Provisional status establishes a probationary period, during which you must meet stipulated requirements for Regular status. Ordinarily, by the time you have completed 12 credits of approved study, your department will decide whether to admit you with Regular status. Conditional status indicates Graduate Admissions Office has not yet received all documents required for Regular admission, such as official transcripts, or GRE, GMAT, MAT or TOEFL scores. If the required materials are not received by the Graduate Admissions Office by the end of the first semester, a registration hold will be placed on your record.

NOTE: If you take classes while you have Pending Department Review admission status, you may count toward a graduate degree no more than nine credits earned in those classes. If you are accepted into a graduate degree program, your department will decide which credits, if any, they will accept from work completed during the Pending Department Review period.

You can obtain further information about admission to the Graduate College from the Graduate Admissions Office, which provides counseling services to applicants. The Graduate Admissions Office staff evaluates all transcripts submitted by applicants and verifies that all requirements for admission have been met. However, please note that admission requirements vary from one graduate program to another; for example, one program may require you to take the Graduate Record Exam (GRE), while another program may require that you submit a portfolio of recent work. To ensure that you've satisfied all admission requirements, consult the catalog description of the graduate program to which you are applying.

NOTE: All documents received by BSU in conjunction with an application for admission become the property of Boise State University. These documents will be duplicated only for use in advising at BSU. Moreover, the original documents will neither be returned to the applicant nor forwarded to any individual unaffiliated with BSU or forwarded to any other agency, organization, college, or university.

Applying as a Degree-Seeking Student

To apply for admission as a degree-seeking student, complete the following steps before the deadline specified in "Application Deadlines," above.

1. Submit an application for admission to the Graduate Admissions Office, along with the $20.00 application fee (nonrefundable).

Table 2.
How to Apply for Admission to the Graduate College at BSU

To apply for admission to Boise State University as a graduate student, submit to the Graduate Admissions Office all materials indicated in the checklist below. All admission materials must be received in Graduate Admissions by the posted deadline. (See Academic Calendar.)

New Degree-Seeking Graduate Applicants
- *Graduate Admission Application.*
- One-time, nonrefundable $20 application fee.
- Official* transcripts from all postsecondary institutions showing all courses completed and degrees earned.
- Official GRE, GMAT, MAT scores, if required.
- Letters of recommendation and/or other materials that may be required by the program to which you are applying.

Returning Applicants Previously Admitted to a Graduate Degree Program
If you are a BSU graduate student who has not attended for one semester or more (not including summer), you must reapply for admission. Submit the following:
- *Graduate Readmit Application.*
- One-time, nonrefundable $20 application fee, if not previously paid.

Also submit any of the following that are needed to complete your file:
- Official* transcripts from all other colleges attended.
- Official GRE, GMAT, MAT scores, if required.

Note: BSU retains admission materials for five years after your last term of enrollment. Please submit new materials if you have not attended BSU within the last five years.

Nondegree-Seeking Applicants
- *Graduate Admission Application* or *Graduate Readmit Application.*
- One-time, nonrefundable $20 application fee, if not previously paid.
- Official* transcript from institution which granted your highest degree.

Applicants Seeking a Second Undergraduate Degree
- Apply for admission through undergraduate admissions office.
- Admission status is Senior

Applicants from Other Countries
- *International Student Graduate Application*
- One-time, nonrefundable $30 application fee.
- Official* proof of four-year degree and transcripts from each educational institution attended beyond high school.**
- Official TOEFL results.
- Official GRE, GMAT scores, if required.
- Letters of recommendation and other materials required by the program to which you are applying.
- Documentation to demonstrate adequate financial resources to cover one year living expenses, tuition, and fees.

* To be official, transcripts must be sent by the issuing institution directly to the BSU Graduate Admissions Office.
** If written in a language other than English, these documents must be accompanied by an English translation.

An application is available inside the front cover of this catalog or you may submit an on-line application available at http://www.boisestate.edu/gradcoll.

2. Request official transcripts from each educational institution you have attended beyond high school. Instruct the institutions to send the transcripts directly to:
   Graduate Admissions Office
   Math/Geosciences Building, Room 141
   Boise State University
   1910 University Drive, Boise, ID 83725-1110
3. Take any predictive exam, such as the Graduate Record Exam (GRE), required by the program to which you are applying. Ensure that the results of these exams are forwarded to the Graduate Admissions Office. For information about specific program requirements, see the program descriptions in this catalog.
4. Submit all letters of recommendation and other materials required by the program to which you are applying.

After completing the steps listed above, you are eligible for admission to the Graduate College. Completing the steps, however, does not ensure that you will be admitted. You must still meet any grade-point average (GPA) requirement stipulated by the program to which you are applying, and you must be recommended for admission by the coordinator of the graduate program to which you are applying. Finally, **you are officially admitted to the graduate program only after receiving written notification from the Graduate Dean**.

Applying as a Nondegree-Seeking Student

You may apply for admission as a nondegree-seeking student if you have earned a bachelor's degree or a higher degree from an accredited institution.

If you decide to become a degree-seeking student, you will be required to meet the GPA and all other requirements of the program to which you apply.

To apply for admission as a nondegree-seeking student, complete the following steps before the deadline specified in the current academic calendar.

1. Submit an application for admission to the Graduate Admissions Office, along with the $20.00 application fee (nonrefundable).

   An application is available inside the front cover of this catalog or you may submit an on-line application available at http://www.boisestate.edu/gradcoll.

2. Request an official transcript from the institution that granted your bachelor's degree or higher degree. Instruct the institution to send the transcript directly to:
   Graduate Admissions Office
   Math/Geosciences Building, Room 141
   Boise State University,
   1910 University Drive, Boise, ID 83725-1110

If you are a nondegree-seeking student, you may register for as many credits as you wish as long as the courses are not restricted and you have met the necessary prerequisites. However, you will be ineligible for financial aid.

Applying for Admission as an International Graduate Student

Boise State University welcomes applications from qualified students around the world. The requirements described below apply to all applicants holding citizenship in a country other than the United States.

You may apply for admission as a graduate student if you have earned—from an accredited institution—the equivalent of a U.S. 4-year bachelor's degree or a higher degree.

To apply for admission to BSU, complete the following steps before the deadline specified in the current academic calendar.

1. Submit a completed *International Student Graduate Application* to the Boise State University International Admissions Office, Administration Building, Room 107 along with the $30.00 application fee (nonrefundable).
2. Request official transcripts and proof of four-year degree from each educational institution you have attended beyond high school or the equivalent of high school. Instruct the educational institutions to send the transcripts directly to:
   International Admissions Office
   Administration Building, Room 107
   Boise State University
   1910 University Drive, Boise, ID 83725

   If written in a language other than English, these documents must be accompanied by an official English translation. If the institutions cannot submit these documents directly to the BSU International Admissions Office, you may substitute (1) certified or attested copies of official academic records and (2) proof of four-year degree. The certified copies must be issued or attested by an official of the institution you attended.
3. Take the Test of English as a Foreign Language (TOEFL). Ensure that the results of these exams are forwarded to the Boise State University International Admissions Office. (The institution code number for BSU is 4018.) For applicants to graduate degree programs, BSU requires a minimum TOEFL score of 587 paper-based/240 computer-based testing.
4. Take the Graduate Management Admission Test (GMAT), Graduate Record Exam (GRE), or any other predictive exam required by the program to which you are applying. Ensure that the results of these exams are forwarded to:
   Graduate Admissions Office,
   Math/Geosciences Building, Room 141,
   Boise State University
   1910 University Drive, Boise, ID 83725-1110

   (The institution code number for BSU is 4018.) For information about specific program requirements, see the program descriptions in this catalog.
5. Submit all letters of recommendation and other materials required by the program to which you are applying.
6. Submit documentation sufficient to demonstrate that you have financial resources to cover one calendar year of living expenses, tuition, and fees. Send the documentation to the BSU International Admissions Office.

After you have met all of the requirements for admission and have been accepted to a degree program, the International Admissions Coordinator will issue you an I-20 form, which you will need to obtain an F-1 student visa. If you would like additional information, please contact the International Admissions Office at: 208 426-1757.

NOTE: All international students must be covered by health insurance. If you are enrolled full-time, your student fees cover the cost of participating in BSU's health insurance plan. However, you may not be required to participate in the plan if you are already covered by a health insurance policy offering coverage equal to (or exceeding) the coverage provided by BSU's health insurance plan. To receive an exemption from this requirement, you must submit proof of insurance to the International Programs Office within the first 10 working days of the semester.

Graduate Credit Options for Senior Undergraduate Students

If you are a BSU senior, you may enroll in a graduate course and have the credits recorded on your transcript as graduate credits. However, you must first secure approval from both the chair of the department offering the course and the Dean of the Graduate College.

Any credits you earn in this fashion may be counted toward an undergraduate degree, or, they may be applied toward a graduate degree at Boise State University, but not both. You determine how the credits are to be used before you enroll in the graduate course. Please note that courses in the M.B.A. program are excluded from this policy.

If you wish to take graduate courses for graduate credit, you must first complete the *Permit for Seniors to Take Graduate Courses*, available in the Registrar's Office, Room 102, Administration Building.

Academic Policies

The following section addresses BSU policies and procedures governing:

- transferring credits
- challenging required courses
- credit limits for pass/fail courses, workshops, and directed research
- credit limits for graduate credit for undergraduate courses
- credit limits for practicum/internship

Many other academic policies and procedures are described or defined elsewhere in this catalog, most notably in sections on General Policies, Graduate Degree Program General Requirements, Registration, and Grades.

Transfer Credits

You can transfer up to nine graduate semester credits taken at other institutions and apply those credits toward a master's degree (Doctor of Education students may transfer up to fifteen credits taken at other institutions). However, the courses must be consistent with the program of study planned by you and your supervisory committee or advisor. In addition, you must have taken the courses at an accredited institution and must have received—in each course—a grade no lower than B.

In general, the university discourages graduate students from transferring credits earned for extension courses. Though some departments may elect to accept extension credits after conducting a detailed examination of each course. No correspondence course credits or experiential portfolio credits will be accepted for graduate credit. Finally, you cannot transfer credits used to satisfy requirements for a graduate degree you received from another institution.

Note: If you are enrolled in a cooperative graduate degree program between Boise State University and Idaho State University or Boise State University and University of Idaho, then these limitations on transfer credits do not apply.

For more information regarding transfer credits, see "Admission to a Graduate Degree Program", page 24.

Challenge Courses

If a graduate student requests the opportunity to challenge a course in a graduate degree program, the department offering the course will decide whether to grant that opportunity. Proctoring fees and/or per-credit-hour fees may be charged by the department. For interdisciplinary courses, the decision will be made by the coordinator in charge of the graduate degree program to which the course applies.

Credit Limits for Pass/Fail Courses, Workshops, and Directed Research

You may apply toward a graduate degree no more than six credits earned in pass/fail or workshop courses. (Project, Thesis, and Dissertation credits graded P/F are excluded from this limitation.) Likewise, you may apply toward a graduate degree no more than nine credits you have earned by completing directed research. No more than six directed-research credits may be earned in one semester. Finally, your supervisory committee or advisor has the authority to accept some, none, or all of your directed research credits (within the limits specified above). Therefore, we encourage you to discuss directed research credits with your supervisory committee or advisor, to determine if the credits can be applied toward your degree.

NOTE: If you are pursuing an M.B.A., you may apply toward your degree no more than three credits earned by completing an internship or directed research.

NOTE: If you are pursuing a Master of Arts in School Counseling, you may apply toward your degree no more than ten pass/fail credits.

NOTE: If you are pursuing a Master of Social Work degree, you may apply toward your degree no more than eighteen pass/fail credits.

Credit Limits Applicable to Undergraduate Courses Taken for Graduate Credit

Ordinarily, you are able to earn graduate credits only in those courses numbered at the 500 level or above; courses below the 500 level carry undergraduate credit. However, a "G" designation applied to 300- or 400-level courses, signifies that students in those courses may choose to earn either undergraduate or graduate credit. In order to earn graduate credit, you must complete extra work beyond what's required of students earning undergraduate credit.

Your department has the authority to accept some, none, or all of the credits you earn in "G" designated courses. In any event, no more than one-third of the credits required for your graduate degree may carry a "G" designation.

Credit Limits for Practicum/Internship

To earn graduate credit for Practicum/Internship, you must have a minimum 3.00 cumulative GPA and you may apply no more than 12 credits toward a graduate degree. However, some graduate programs accept only 3 internship credits. Therefore, we encourage you to check with your department for any additional restrictions. Practicum/Internship cannot be repeated to improve a grade. You can obtain a copy of the *Practicum/Internship* form from your department.

If you have questions about these requirements:

Contact Graduate Admissions Office
Math/Geosciences Building, Room 141
208 426-3903 or 426-4204
http://www.boisestate.edu/gradcoll
e-mail: gradcoll@boisestate.edu

Graduate Degree Program Requirements

Admission to the Graduate College is the first step toward your graduate degree, but you must also be granted admission to a graduate degree program. Admission requirements vary from one graduate program to another. For more information about the requirements of a particular graduate degree program, consult the catalog description of the program to which you are applying. Concurrent admission to more than one graduate program is not possible.

The sections below define general policies and procedures governing:

- admission to a graduate degree program
- your supervisory committee
- time limits for completion of degree requirements
- minimum number of credits required for graduate degree
- residency requirements
- foreign-language requirements
- applying for candidacy
- thesis and final-project requirements
- final-examination requirements
- applying for a graduate degree

Admission to a Graduate Degree Program

Once you have been granted Regular, Provisional, or Conditional status (as described in "General Admission Policies"), you will work with your supervisory committee or advisor to develop your program of study.

To document your study plan, you must complete a *Program Development Form*. The form is available from your supervisory committee, your advisor or the chair of your department. It is your responsibility to ensure that you complete the form in the first academic period (fall semester, spring semester, or summer session) in which you take classes as a Regular, Provisional, or Conditional student. If you are using transfer credits in your graduate program, your supervisory committee or advisor will file your completed form with the Graduate Admissions Office.

NOTE: When you complete the *Program Development Form*, list on it any of the following types of classes, if you intend to count toward your degree the credits you have earned in those classes.

- non-BSU courses in which you earned a grade of B or better that you wish to transfer to BSU
- courses in which you "reserved" the credits to be applied to a graduate degree
- courses in which you earned credits you wish to count as residence credits earned through an inter-institutional cooperative program

If you wish to apply such credits to a BSU graduate degree, you must claim the credits no later than the **earliest** of the following dates:

- when you file the Program Development Form
- the end of your first academic period as a Regular, Provisional, or Conditional student

Your Supervisory Committee

Once you are admitted with Regular status to a graduate program, your department will assign you a supervisory committee, consisting of your advisor and two or more graduate faculty members. Additional ex-officio committee members may be assigned at the discretion of the student and the advisor.

Your supervisory committee or advisor will work with you to establish a program of study, direct your thesis or final project, and administer your final examinations. In some programs, you will be assigned an advisor in lieu of a supervisory committee.

Your advisor and one committee member must have Full or Associate Graduate Faculty status. Your third committee member may have Associate or Adjunct Graduate Faculty status. Ex-officio committee members are not required to have graduate faculty status. (A list of official graduate faculty is available on page 153.)

If you are admitted with Provisional status, you will be assigned a temporary advisor, who will help you to create a tentative program of study. In addition, your advisor will assist you in satisfying the requirements of the Provisional admission. You will also be assigned a temporary advisor if you are admitted with Conditional status, however, it will be your responsibility to meet the requirements of your Conditional admission.

Once you have satisfied the requirements, your department may recommend to the Dean of the Graduate College that the university admit you with Regular status.

Time Limits for Completion of Degree Requirements

You have a total of seven calendar years within which to complete all requirements for your graduate degree. The seven years begins with the date you are admitted to a graduate degree program with either Regular, Provisional or Conditional status. All course work (including any transfer credits), field work, practicum, internships, thesis or dissertation defense, comprehensive exams, and other activity required for your degree must be completed within the seven years leading up to and including the date you receive a graduate degree.

If you wish to include a course in your degree program taken before admission with Regular, Provisional, or Conditional

status, you must have approval of your advisor. The advisor will complete a *Request for Academic Adjustment* form requesting that the course be allowed within the seven year time limit to meet the requirements of the degree.

The *Request for Extension of Time* form, along with the letter of request from the student, is submitted to the Graduate College by your advisor if you have reached the seven year limit but need another semester to finish your Dissertation, Thesis, or Project.

Note: Students may choose to meet the degree requirements stated in any catalog in effect since the term of initial enrollment while admitted to a graduate degree program.

Minimum Number of Credits Required for Graduate Degree

Before awarding you a master's degree, BSU requires you to complete at least 30 semester credits of graduate course work approved by your supervisory committee or advisor. Some programs may require more than 30 credits. For the Doctor of Education, a minimum of 66 semester credits beyond the master's is required.

Second Master's Degree

Students who have earned a master's degree from Boise State University may earn a second degree in another discipline under the following guidelines:

1. A candidate must meet all program requirements prescribed by the second master's curriculum.
2. Program requirements for the second degree that have already been met in the program for the first degree awarded may be counted toward the second degree at the discretion of the student's graduate committee and the approval of the Graduate Dean.
3. A minimum of 21 credits of new course work is required for the second degree.
4. The seven-year time limit applies to all courses to be counted toward the second degree.
5. A student cannot be admitted to a second master's degree program until all requirements for the first degree have been completed.

In-residence Requirements

To obtain a master's degree, you must complete at least 21 semester credits of approved graduate work from Boise State University. Doctor of Education students are required to be in continuous enrollment and complete a minimum of 25 credits of 600 level courses during the first 15 months of the program, which includes taking 9 credits during the first summer, 5 in the fall, 5 in the spring, and 6 in the second summer. Your department may elect to accept, for in-residence credits, some or all graduate work completed in an inter-institutional cooperative graduate program.

Foreign Language Requirements

Each department offering a graduate degree program establishes the foreign language requirement for that program. If your department has a foreign language requirement, you will need to demonstrate a reading knowledge of that foreign language. Ordinarily, you would do so either by translating documents or by taking a standard exam.

Applying for Candidacy

When you apply for candidacy, you use the *Application for Admission to Candidacy* form to specify the courses and projects comprising your program of study. Applying for candidacy represents an important milestone in your progress toward a graduate degree, not least because the *Application for Admission to Candidacy* form, upon approval, becomes a binding agreement between you, the university, and your department. In short, applying for candidacy identifies the work you've done so far and defines the work you will do from that point forward. Once approved, the application for candidacy becomes your formal plan for further study. BSU discourages students from making any changes to this plan after the application for candidacy has been approved. Such changes require approval from the Dean of the Graduate College, acting on a written recommendation from your supervisory committee or advisor.

Master's level students should apply for candidacy as soon as possible after achieving Regular admission status and completing 18 credits of graduate work in an approved program of study. Your grade-point average for those 18 credits must be at least 3.00 on a 4.00-point scale. In addition, you must have no listed credit deficiencies, and you must have already satisfied any foreign-language or other requirements stipulated by your department.

If you are a doctoral student, you may apply for candidacy following the successful completion of a qualifying examination, scheduled by your committee.

You can obtain a copy of the *Application for Admission to Candidacy* form from your department. We encourage you to apply for candidacy as soon as you meet the requirements; but no later than one semester before your expected graduation date. Deadline for submission is approximately:

- the first of June for August graduation
- the end of August for December graduation
- the end of January for May graduation

Exact dates are listed in the academic calendar.

Project, Thesis, and Dissertation Requirements

Each department offering a graduate degree program determines the program's requirements for a thesis, project, or dissertation. There are, however, some requirements common to all:

- The project, thesis, and dissertation should demonstrate the ability of an individual student to select a specific

problem or topic, to assemble pertinent data, to do original research appropriate for the topic, to organize ideas and data acceptably, to synthesize, analyze and interpret results, and to produce a written document in clear and effective English.

- The final draft of the manuscript must be reviewed by your supervisory committee or advisor and by the office of the Dean of the Graduate College.
- Two copies of the work to be retained by the University must be printed on 25% cotton fiber paper. Your department may also require a final copy printed on 25% cotton fiber.
- Your project, thesis, or dissertation must be received and approved by the Dean of the Graduate College at least five weeks before commencement.
- You must be enrolled while completing your final requirements. Please see Enrollment Requirements at Culmination of Degree below.

A manual compiled by the Graduate College staff will assist you in preparing your thesis, project, or dissertation to meet the standards required for submission to the Graduate College. You may obtain a copy of *Standards for Preparation of Dissertations, Theses, and Projects in the Graduate College* in the BSU Bookstore.

Matters of form and style including abbreviation, footnotes, notation of references and bibliography should conform to the standards for your discipline. Your advisor or program coordinator will advise you which style manual is appropriate.

Enrollment Requirement at Culmination of Degree

A student who has met all graduate degree credit requirements except for completion of a directed research, project, thesis, or dissertation, is required to register for at least one credit of 590 Practicum/Internship, 591 Project, 593 Thesis, 595 Readings and Conference, 596 Directed Research, or 693 Dissertation each semester until the work is completed. This applies to semesters in which the student is using BSU facilities or faculty services while writing the manuscript or preparing for and completing the defense. An exception will be made if the student has completed all requirements for the degree but missed the deadline for submission of the Application for Graduate Degree.

Final Examination Requirements

To take a final examination, you must first be admitted to candidacy (as described above). Departments and academic units that offer graduate degrees have substantial latitude in establishing requirements for final examinations. In some departments, for instance, students may be required to write a thesis, take a final written examination, and take a final oral examination. Another department may only require a thesis and oral defense, while yet another may require students to complete a portfolio of creative work.

If your department requires neither a thesis nor a final project, you still may have to take one or more final examinations—either written, oral, or both. Your department administers these examinations, according to a schedule that the Graduate College establishes once each summer session and once each semester. Your department will also administer any final examinations it requires in defense of a thesis, project, or dissertation, again according to the schedule established by the Graduate College.

If your department requires a final examination, the Dean of the Graduate College may appoint an additional member to the committee that administers the examination. This additional member may be from outside your department or college.

NOTE: A student who fails a final examination defense of thesis, project, or dissertation will be withdrawn from the graduate degree program, unless the chair of the examination committee submits a written recommendation to the Dean of the Graduate College, proposing that the student be allowed to take another examination. With the Dean's approval, the student may retake all or part of the examination. However, at least three months must elapse between the first examination and the second. Any student failing the second examination will be withdrawn from the graduate degree program.

Please note that you must take any required final examination at least five weeks before commencement; the academic calendar lists final examination dates for the current academic year. To apply to take a final examination, contact the chair of your graduate committee.

Applying for Your Graduate Degree

The last step in completing your graduate degree program is to apply for your graduate degree.

You must apply for your graduate degree before the deadline established for the semester in which you will graduate. Deadlines for spring and fall semester are published in the current academic calendar. Applications are available from your department or from the Graduate Admissions Office, Math/Geosciences Building, Room 141; or online at http://finad.boisestate.edu/busforms.html.

To apply for your graduate degree, complete the following steps before the deadline.

1. Consult with your supervisory committee or advisor to ensure that you have satisfied all requirements for your graduate degree.
2. Pay any outstanding balances you may have with the university (for example, tuition, fees, library fines, or parking tickets).
3. Obtain all required signatures from your advisor, graduate program coordinator, and the Graduate Dean.
4. Submit the completed *Application for Graduate Degree* form—along with the $25.00 diploma fee—to the Graduate Admissions Office, Room 141, Math/Geoscience Building.

If you have questions about these policies:

Contact the Registrar's Office
Administration Building, Room 102
Telephone 208 426-4249
BroncoWeb: http://www.boisestate.edu

Registration Policies, Procedures, and Grades

Shortly after you have been admitted to a graduate-degree program, your department will assign a member of the faculty to serve as your academic advisor. Nondegree-seeking students may seek advising in the Graduate Admissions Office or the department from which you intend to take courses. Prior to registration, all students are encouraged to seek advising.

Registration is held at the beginning of each semester and at the beginning of summer sessions. **All registration is completed online by selecting the BroncoWeb icon on the Boise State University home page at http://www.boisestate.edu.** You may register from your home or office, at an on-campus computer lab, the Canyon County Center, or at the Registrar's Office Help Center. You cannot register before your appointed time and you must have your login ID and password.

Registration for Continuing Students

If you are a continuing, degree-seeking student and were enrolled the semester immediately preceding the semester you wish to enroll, you will have the first opportunity to register. Registration is held in April for the next summer session and fall semester, while registration for spring semester is held in November. For exact dates, consult the current academic calendar or the *BSU Directory of Classes*. You register by appointment, via BroncoWeb, according to a schedule established by the Registrar's Office.

Continuing nondegree-seeking students may register at the end of the priority registration period for continuing degree-seeking students.

Registration for New and Readmitted Students

If you are a new or readmitted degree-seeking student and you apply for admission to the university before the published application deadline, you will be notified, by mail, of your registration appointment. Your appointment to register is held in May for the next summer session and fall semester, while registration for spring semester is held in December.

New and readmitted nondegree-seeking students may register after registration ends for new degree-seeking students.

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 your classes via BroncoWeb at http://www.boisestate.edu and select BroncoWeb. If you do not cancel your registration or pay your fees by the cancellation deadline/fee payment deadline (see Academic Calendar for exact dates), 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 Courses and Audit Courses

During open registration, if space in the class is available, you may register for a course under audit status with the understanding that you have a seat in the class, but you will receive neither credit for the course nor a final grade. Some instructors won't require you to attend class regularly, complete assigned work, take tests, or otherwise participate in the class. On the other hand, the instructor can require of you everything that is required of students who take the course for credit. Therefore, before registering under audit status, discuss your plans with the instructor.

In any of the classes in which you are enrolled, you can change the course status from credit to audit or from audit to credit only until the tenth day of the semester. Please note that if you change the status from credit to audit, or from audit to credit, your instructor still defines the requirements for successfully completing the class. If you fail to meet those requirements under **audit** course status, your instructor may give you a final grade of 'UAU' (for *Unsatisfactory Audit*). To change your registration status, access the Website at http://www.boisestate.edu and select BroncoWeb to complete the process.

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. Before dropping or adding classes, please carefully read the following sections of this chapter, which describe the general policies governing adding or dropping classes. Specific instructions for adding and dropping courses are published in the *BSU Directory of Classes*, as is the deadline for making such changes.

You may drop and add classes via BroncoWeb at 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 without first obtaining the instructor's permission, if there is space available in the class. You may continue to add classes from the first day of classroom instruction, until the tenth 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 signature on the schedule change form, indicating that the instructor has granted permission 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 prevent other students in the class from doing so. (If you are registering for or adding project, thesis, dissertation, directed research, practicum, or internship, you may do so through the end of the sixth week of the semester.)

You may drop classes from your schedule, without the instructor's permission, 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 contain a grade of W 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.)

For more information about dropping or adding classes, see the *BSU Directory of Classes* or call the Registrar's Office at 208 426-3486.

BSU limits the number of withdrawals (W's) a student may receive while enrolled at BSU. If you are a graduate student and wish to pursue a second degree at the associate, advanced technical certificate, or technical certificate level, you may receive up to five W's. If you are pursuing a second baccalaureate degree, you may earn 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, 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. (There is no limit on the number of W's received if you are a graduate student enrolled in a graduate degree program.)

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. See section on "Grades" for more information.

Note: If you intend to drop a class in which you have been issued university property, 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 official record, and reinstate you in the class.

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 the chapter on "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.

Faculty-Initiated Withdrawal

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 tenth 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 graduate program coordinator 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.

Note: For information regarding Administrative Withdrawal from BSU, please refer to the chapter on General Policies.

Grades

Boise State University uses a 4.0 grading scale. Table 3 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 3 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).

Table 3.
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; Student did not meet requirements set by instructor	0	No
NR	No Report or Record; Instructor has not yet turned in a grade	0 (until changed to a letter grade)	No
IP	In Progress; Used for thesis, project, and dissertation work in progress*	0 (until changed to a letter grade)	No
CW	Student completely withdrew from all classes that semester	0	No

***Note: If a student voluntarily leaves a graduate program in good standing, any IP grades accumulated will be changed to a grade of W.**

In calculating *semester GPA*, the formula uses only the quality points earned and credits attempted that semester. For *BSU GPA*, the formula uses only quality points earned and credits attempted at BSU.

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 or UAU).
- courses in which you have received the grade of I, for *incomplete*; IP, for *in progress*; or NR, for *no record* (until the I, IP, or NR is changed to a letter grade).

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. The quotient of that division is your GPA.

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

Figure 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 those courses have been graded with a final grade of A, B, C, D, or F. 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 through summer 2001, both grades are used in the GPA calculation. 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.

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.

If you receive an incomplete in a **graduate** course, you and your instructor will write and sign a contract stipulating the work you must do to receive a grade in the class and the length of time in which it must be completed.

Note: If you receive an incomplete in an **undergraduate** course, you and your instructor will write and sign a contract stipulating the work you must do 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.

You may not remove the incomplete from the 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.

If you have questions about tuition and fees:

Contact the Payment and Disbursement Center
Administration Building, Room 211
Telephone 208 426-1212

If you have questions about student loans:

Contact the Account Maintenance Center
Administration Building, Room 209
208 426-4677

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

Students are responsible for knowing and adhering to all fee payment deadlines specified in the current academic calendar.

For your convenience, monthly billing statements are provided. Depending on timing of your registration, you may not receive a statement prior to the fee payment deadline but are still held responsible for paying your fees by the deadline. These bills may reflect any scholarships, assistantships, or financial aid you have been awarded. Failure to make payment by the due date will result in the assessment of a $50.00 penalty fee.

Installment Payment Plan (I-PAY) for 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 credits or more, and you must have no delinquent or past-due accounts with the university.

When you use the installment payment plan (I-PAY), you agree to pay all special fees at the time that you register. You agree, as well, to pay at least 50% of the balance owing for tuition and fees, and you agree to pay an application fee of $30. Finally, you agree to abide by the other policies and procedures of the I-PAY plan.

When you use the installment payment plan (I-PAY) for tuition and fees, you agree to pay the balance of your tuition, fees, and application fee 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: If your I-PAY account becomes delinquent, the university may cancel your registration. In addition, you will have to pay a late charge of 21% per annum, and you will forfeit any opportunity to defer payment at some later time.

If financial aid arrives before your loan is repaid, the financial aid will be applied to the amount you still owe on the loan. This application of financial aid takes precedence over any other method of repayment. If you use the I-PAY plan and then withdraw from the university, BSU will deduct the amount owed on your account from any refund you may be eligible to receive. In addition, you will be charged a $25 complete withdrawal fee.

If you are enrolled for two or more credit hours and are able to pay the minimum 50% down payment, you may apply for the I-PAY plan at 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 has established that eight credits or more per semester constitute full-time enrollment and you are required to pay the full tuition and fees shown in Table 4 below.

Table 4.
Full Graduate Tuition and Fees, Per Semester, (8 credits or more)

Tuition and Fees	Resident	Nonresident
Tuition	$0	$3,100.00
Institutional Fees	$1,847.25	$1,847.25
Total (for up to 19 credits)	$1,847.25	$4,947.25
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 5, below.

In determining whether you have reached the total 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 the 8-credit total. Please note, also, that developmental courses (such as ENGL 010 Developmental Writing or MATH 020 Elementary Algebra) count as 3 credits each toward the 8-credit total, even though you earn no credits by taking the course.

Although 8 credits is considered full time for fee paying purposes, you must enroll for 9 credits or more to be eligible for full financial aid. Please see Table 1 in the section on "General Policies."

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 according to the schedule shown in the following Table 5. Among the fees listed in Tables 5 and 6 are an application processing fee, music fees, special fees, and an overload fee. You pay the application processing fee once when you first apply for admission to BSU. You pay the music fee if you register for private music lessons, and you pay the overload fee whenever you enroll for more than 19 credits in a single semester.

Music fees are refundable, if you drop the class within the first 5 days of classroom instruction (see "Refund Policy," below). **Application fees and overload fees are nonrefundable.**

Table 5.
Partial Graduate Fees, Per Semester, (less than 8 credits)

Part-time Fees	$167.25 per credit hour
Summer (2001)	$153.25 per credit hour
Summer (2002)	$162.85 per credit hour
Application Processing Fee	$20 One-time; nonrefundable
Overload Fee	Per credit hour beyond 19 hours; nonrefundable

Table 6.
Fees for Private Music Lessons

2 Credits	$140
4 Credits	$280

These music fees may be waived, however, if you are a music major enrolled for 8 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 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 *Senior Citizen's Waiver* from the Payment and Disbursement Center, Administration Building, Room 211, Boise State University, 1910 University Drive, Boise, ID 83725. Fill it out according to the instructions. When you pay your registration charges, you will need to show the cashier your driver's license, birth certificate, or other proof of your age.

Refund Policy

In general, if you completely withdraw from 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 $10.00 fee for each class dropped). If you withdraw after the tenth day of classroom instruction, you receive no refund and you will be responsible for the balance due on your student account along with a $10.00 fee for each course dropped. No refunds for private music lessons can be granted after the first five (5) days of classroom instruction. All students registered for more than 19 credits will be assessed overload fees which are not refundable.

Fee Appeals: Students who wish to appeal for a refund or waiver of the course fees they are assessed should contact Account Maintenance, Room 209, Administration Building, 208 426-2134.

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 Extended Studies 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.

Student Health Insurance Program

If you are a **full fee-paying student**, enrolled for 8 or more credit hours, you are covered under the University's Student Health Insurance Program. This premium is automatically included in the fee schedule on your bill. Coverage begins on the first day of classroom instruction. You 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 class and ends on the first day of the spring semester. Spring semester benefits continue until the first day of the fall semester.

You may be exempt from participation in the Student Health Insurance Program if you have existing health insurance coverage. To claim exemption, sign and return the *Request for Insurance Waiver*. If a copy of this waiver is not included with your bill, copies are available in the Payment and Disbursement Center, Administration Building, Room 211 or on the web at *http://finad.boisestate/busforms.html*. This must be done for each academic semester after registering and prior to fee payment deadline.

If you are a **part-time student**, enrolled for 3 or more credit hours, you may enroll for the Student Health Insurance if you so desire. The premium is payable each semester in the Student Health Center during the first 30 days of each semester. No billings will be sent for the insurance premium.

Dependent coverage is available to your dependents if you are a full time or part-time student. In order to purchase dependent coverage, you must also be insured under the Student Health Insurance Program. You may enroll your 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. Dependent coverage is voluntary and billings will not be sent.

NOTE: All full-time students may obtain medical assistance or services at Student Health Services, 2103 University Drive, Boise, ID 83725. Student Health Service has **no connection** to the insurance program covering BSU students.

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. **It is the student's responsibility to apply for residency status.** This section briefly answers two of the most frequently asked questions about residency requirements. For further information, please contact the Residency Coordinator, Admissions Office, Room 101, Administration Building, Telephone: 208 426-1156.

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 their parents have resided in Idaho for 12 consecutive months before the first day of classroom instruction.

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 Admissions Office, Administration Building, Room 101. Complete the form and submit it according to the instructions provided.

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.

If you have questions about assistantships:

Contact the Graduate College and Research
Math/Geosciences Building, Room 140
Telephone 208 426-3647

If you have questions about scholarships and other forms of financial aid:

Contact the Financial Aid Office
Administration Building, Room 113
Telephone 208 426-1664
FAX 208 426-1305
http://www.boisestate.edu/finaid/
e-mail: faquest@bsu.boisestate.edu

Financial Aid for Graduate Students

Graduate Assistantships

Graduate students at BSU may apply for a wide variety of financial aid, drawn from an equally wide variety of sources. You should investigate any financial aid that seems appropriate to your circumstances, beginning with financial aid available from your department or your graduate-degree program.

Departments award graduate or research assistantships with a total value of $6,500 to $12,000 (including a stipend and a waiver of fees). In addition, non-resident tuition is waived for any non-resident student who receives an assistantship award. You may obtain an application for an assistantship from the Graduate College, MG-140, the department in which you are applying, or on the Internet at http://www.boisestate.edu/gradcoll/04Link.html.

Graduate and research assistants are expected to provide 15 to 20 hours of service per week to the university, while scholarship recipients have no service requirements.

If you are awarded a BSU assistantship, you are required to enroll for 9 or more credits in a graduate-degree program, maintain at least a 3.00 grade-point average, and make satisfactory progress toward your degree. If you are enrolled for 5-8 credits in a graduate degree program, you may be eligible for a partial assistantship. Hours of service required would be assigned on a prorated basis as determined by the department. In order to be eligible for reappointment, a graduate or research assistant must receive a satisfactory performance review each semester.

When you accept a graduate assistantship, research assistantship, or scholarship, you enter into an agreement with the Graduate College, one that both parties are expected to honor throughout the next year. If you accept an award before April 15, but change your mind about accepting, you may resign your appointment at any time through April 15. Your resignation must be in writing to the chair of the department. After April 15, your acceptance of the award commits you to that appointment.

NOTE: Students who receive an assistantship will be required to pay special course fees for any elective courses taken that are not included in their degree program.

NOTE: Students who withdraw from the university, or who are dismissed from their degree program, forfeit their appointment or award and may be required to repay some or all of the money received from the assistantship to the department.

Deadline for Departmental Aid

You should apply for these awards when you apply for admission to the Graduate College—no later than March 1. If your application is received by the department after March 1, it may not be considered until the following year.

NOTE: Financial aid is available only to degree- or certificate-seeking students who are admitted to the university. If you have applied to a graduate degree program but have Pending Department Review admission status, you are not eligible for federal financial aid until your status is changed to Regular, Provisional, or Conditional.

Other Financial Aid

Graduate students can apply for loans and work-study through the federal aid programs. Complete the following steps in order to apply for federal aid:

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 you weeks in processing time over the paper application. Please note that unless you have a PIN, you are required to send a signature page within 14 days of transmitting your FAFSA on the Web.
   - Renewal FAFSA: Students who applied for financial aid in the prior year 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 Drive, Boise, ID 83725-1315.
- Ensure that all information you provide on the application is entered correctly.

- 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, and your spouse filed a separate 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.** 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.

In considering applications for financial aid, the Financial Aid Office makes every effort to ensure that resources available through the university are distributed fairly. If funds remain after distribution, applicants will be considered on a first-come, first-serve basis as long as the funds last. To determine need, the Financial Aid Office uses a formula mandated by the federal government.

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). Most federal aid programs require demonstrated financial need, which is determined by completing the FAFSA.
- Be admitted to Boise State University as a student seeking a graduate degree.
- Enroll for the minimum number of credit hours required by the aid program.
- Maintain Satisfactory Academic Progress standards (see detail on following pages).
- Be a U.S. Citizen, permanent resident, or eligible non-citizen. 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.
- You must meet all other eligibility requirements. Please contact the Financial Aid Office if you have any questions.

The following section describes a sampling of financial aid programs for which BSU students may be eligible. Since different types of aid carry different obligations, we recommend that you discuss your options with a customer service representative in the Financial Aid Office.

Federal Perkins Loans

Perkins Loans are long-term, low-interest loans awarded to both undergraduate and graduate students who show exceptional financial need. You must repay these loans according to a schedule established by federal law. Typically, you begin repaying your loan nine months after graduation or after your enrollment drops below five credits. Table 7, below, shows estimated repayment schedules for Perkins Loans of various amounts.

Table 7. Estimated Repayment Schedule for Federal Perkins Loans (based on 5% interest rate)

Loan Amount	Number of Payments	Amount of Payments	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	84.85	2,182.00	10,182.00
10,000.00	120	106.06	2,727.20	12,727.20

* Final payment will be slightly less.

NOTE: Your actual payment obligations may differ from these examples, which are presented here only to illustrate a typical repayment plan.

Federal Direct Stafford Loans

Direct Loans are long-term loans available to undergraduate and graduate students. They usually carry a moderate variable rate of interest capped at 8.25 percent. To apply, complete the FAFSA, available from the Financial Aid Office, Room 113, Administration Building.

BSU processes Direct Loan applications throughout the year. If you are awarded a Direct Loan, you must attend a debt management workshop before you can receive the funds. Also, the Direct Loan commits you to participate in an exit interview when you graduate or withdraw from the university.

There are two types of Direct Loans: subsidized and unsubsidized. Borrowers of unsubsidized loans are responsible for the interest while attending school. The Financial Aid Office will determine which loan you will receive, based on your financial need. You are expected to begin repaying the loan six months after graduation or six months after you have dropped below five credit hours. Table 8, below, shows estimated repayment schedules for typical Direct Loans. Your actual debt and repayment plan may not match any of these examples; they are presented here merely to show typical loan amounts and repayment plans.

Table 8. Estimated Repayment Schedule for Federal Direct Loans (based on 8% interest rate)

Loan Amount	Number of Payments	Amount of Payments	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*	4,449.31	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. Figures provided by the Student Loan Fund of Idaho.

Federal College Work-Study Program (CWS)

This program gives undergraduate and graduate students the opportunity to earn money to pay for a portion of their educational expenses. Checks are paid directly to the student, who is responsible for paying outstanding debts. CWS aid is awarded to selected undergraduate and graduate students who show financial need.

Atwell J. Perry College Work-Study Program

This work-study program operates much like the Federal Work-Study Program, giving undergraduate and graduate students the opportunity to earn money to pay for a portion of their educational expenses. Only Idaho residents are eligible.

BSU Student Employment Program

This program has limited funds available for undergraduate and graduate students who wish to work to pay a portion of their educational expenses. To be eligible, you must be unable to qualify for work-study. All employment opportunities are listed on the Internet at www2.boisestate.edu/seojobs. Passwords are available from the Student Employment Office, Administration Building, Room 118.

Waivers of Nonresident Tuition

The **Gem Scholarship** provides a nonresident tuition waiver to students who are enrolled full time, pursuing a major at Boise State University designated as a "high tech" major. Only new students who are not residents of the state of Idaho are eligible. You also must have a minimum 3.00 cumulative GPA in your undergraduate course work, a combined minimum score of 1000 on the verbal and quantitative sections of the GRE or a minimum score of 500 on the GMAT predictive examinations. The scholarship is renewable for one year if you complete a minimum of 16 graduate credits in the fall and spring semesters and maintain a 3.00 GPA.

The priority deadline to be considered for the waiver is February 1. However, you may be considered after February 1 as long as there are waivers available. To obtain an application, additional deadline information and a list of qualifying degree programs, please visit the Graduate College Website at http://admissions.boisestate.edu/wue&gem.htm.

Other tuition waivers are available to a limited number of undergraduate and graduate students. You must be considered an out-of-state resident for tuition purposes, have good academic records, and show financial need. Your FAFSA should be filed as soon as possible after January 1 to receive consideration for the award.

Scholarships

BSU awards a variety of scholarships, some based on academic achievement, others based on special skills or on financial need. All students with a 3.0 GPA or better will be automatically considered for scholarships. A supplemental scholarship application must be completed and received in the Financial Aid Office by February 1 to be considered for specialized scholarship programs. Some need-based scholarships require that you submit the FAFSA, as well. If so, submit the FAFSA to the processor, as directed on the form, no later than February 1 to ensure that BSU receives it by March 1. You can obtain the brochure, the application, and the FAFSA from the Financial Aid Office, Room 113, Administration Building. A computerized national scholarship search database is available for student use by going to the Boise State web site: http://stuaff.boisestate.edu/financialaid.

Short-Term Loans

Emergency Short Term Loans are available to students with a minimum grade-point average of 2.00. This loan is available to students who experience a significant financial emergency during the academic year. The maximum amount available is

$250 per semester. The loan requires a $25 processing fee, and must be repaid within 90 days.

Financial Aid for the Summer Session

The university has limited financial aid available for the summer session. If you need financial aid for the summer session, consult with the Financial Aid Office as soon as the *BSU Summer Bulletin* is available. Please note, also, that your FAFSA for the preceding year must be on file by May 1.

Financial Aid for International Students

In order to be granted student visas, international students must demonstrate that they have enough money for one calendar year of university attendance. If you encounter financial difficulties, contact the international-student advisor. The advisor's office is in the Foreign Students Admissions Office, Room 107, Administration Building.

Disbursing Funds

In April, the Financial Aid Office begins mailing award notices to scholarship recipients. Need-based aid, such as loans and work-study money, is awarded as it is processed. During fall semester, if your registration fees are paid, your remaining funds will be electronically deposited into your bank account or a check will be mailed to you about one week before the start of classes. During spring semester, you can pay your spring registration fees with previously awarded aid. The balance of your aid will be mailed to you about one week before the start of classes, if your registration fees are paid.

Change in Enrollment Status

Refund Policy In general, students receive no refund of tuition and fees if they withdraw from the university after the tenth day of classroom instruction. However, if you withdraw from the university after receiving a Title IV federal loan or grant (such as a direct loan or a Pell grant), a calculation will be completed to determine how much of the Title IV funds you received must be returned to the federal government by either Boise State or by you. To calculate this repayment: Determine the percentage of the period you completed; apply the same percentage to the total awarded Title IV aid before you withdrew to determine the amount of aid you earned; subtract the earned aid from the total aid disbursed to you; determine how much of the unearned aid must be returned by Boise State and how much must be repaid by you; determine which of the Title IV programs will receive back the unearned aid.

The percentage of time completed will be based on the total number of calendar days in the term versus the total number of calendar days elapsed. The date of withdrawal will be based on the last day you attend classes. If you withdraw from classes, you should use the normal university withdrawal process. No calculation will be done if the date of withdrawal is after 60% of the term has elapsed.

Satisfactory Academic Progress

Students applying for or receiving financial aid must make satisfactory academic progress at the university. Your academic progress is considered satisfactory if you:

- enroll for the purpose of obtaining a degree or certificate (you must be admitted by the Graduate College as well as your specific program)
- maintain good academic standing (that is, you cannot be on probation or fail required courses in your discipline)
- complete your degree requirements within the maximum time allowed, which for purposes of determining satisfactory academic progress is attempting 150% of the credit hours needed for the degree
- pass 75% of the credit hours attempted each year

Credit Information and Requirements

In general, you must be enrolled in a minimum of five credits per semester to be eligible for financial aid under the policy of satisfactory academic progress. The following can be used to establish that you are making satisfactory academic progress:

- completion of 75% of the credits attempted for the year
- completion of the degree prior to attempting 150% of the required credit hours

The following cannot be used to establish that you are making satisfactory academic progress:

- credits for courses in which you receive a grade of F
- credits for courses in which you have an incomplete
- course withdrawals and complete withdrawals after the tenth day of classes
- audits

Satisfactory Academic Progress Review

The university reviews all financial aid files annually. If you are not making satisfactory academic progress (as defined by this policy) you will be ineligible for financial aid until you are once again making satisfactory academic progress.

Appeals

If the university declares you ineligible for failing 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.

Request applications from:

New Student Information Center
Student Union, Northeast Entrance
Boise State University
1910 University Drive, Boise, ID 83725
Telephone 208 426-1820
FAX 208 426-4253
http://bsuinfo@boisestate.edu

Return completed applications and security deposits to:

Payment and Disbursement Center
Room 211, Administration Building
Boise State University
1910 University Drive, Boise, ID 83725
Telephone 208 426-1212

Student Housing

Housing On Campus and Elsewhere

BSU student housing consists of four residence halls located on campus and five apartment complexes within walking distance from campus. This section of the catalog contains brief descriptions of the student housing available through the Office of Student Housing. In addition, this section generally describes some of the policies and procedures of student housing and provides cost information for:

- room and meal plan options for the residence halls
- rental rates of university apartments for married and single students and students with families

Finally, this section notes 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 at least two applications: one for housing and another for admission to the Graduate College. If you apply for housing, the Office of Student Housing may accept your application for housing, process the application, and accept payment from you for housing. However, none of those actions constitutes acceptance or approval of your application for admission to the Graduate College. Likewise, being accepted for admission into the Graduate College does not mean that your application for housing has been accepted and approved.

University Residence Halls

Altogether, the four on-campus residence halls accommodate more than 880 students. Of those students, most are undergraduate students living in **Chaffee Hall** or **J. B. Barnes Towers**.

Chaffee Hall is divided into three separate 3-story units, one of which provides semi-private bathrooms; enclosed corridors connect the units to a common area containing a lounge, office, and recreational facility. Each floor has a small informal lounge, study room, bathrooms, and laundry facilities. Chaffee Hall, which also houses one of the university's computer labs, accommodates 429 residents.

J.B. Barnes Towers consists of six residential floors: the first five floors are coed and the top floor is women only. The carpeted and air-conditioned residence hall is equipped with study lounges, laundry facilities, and a computer lab. Four students occupy each room; each room has its own bathroom. This hall accommodates 300 residents.

Coed **Driscoll Hall** and its coed neighbor, **Morrison Hall**, are nearly identical in design: each hall contains 54 single and 13 double rooms, arranged into suites housing 7 to 10 students. Applicants who are 21 years of age or older will be given preference when requesting housing in Morrison Hall. Perhaps because of this preferential policy, Morrison Hall has become the residence hall preferred by graduate students living on campus.

Cost Information

If 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, hookup to cable TV, and state sales tax. Housing prices also include a nonrefundable fee of $25.00 to cover the expense of programs and special events held in the residence halls. Table 9, below, lists prices for housing in the residence halls, along with the meal options available.

NOTE: Students frequently ask about reduced rates for housing without a meal option. Unfortunately, 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 six meal options shown in Table 9.

Table 9.
Residence Hall Prices for 2001-2002

Meal Options and 2001-2002 Prices	Double Room	Single Room
Option 1 or 4	$3869.00	$4394.00
Option 2 or 5	$3749.00	$4268.00
Option 3 or 6	$3565.00	$4090.00

Option 1: 19 meals per week or three meals each weekday and two on Saturday and Sunday.
Option 2: Any 15 meals of the 19 available.
Option 3: Any 10 meals of the 19 available.
Option 4: *135 meals and $140 per semester of Flex Dollars
Option 5: *100 meals and $185 per semester of Flex Dollars
Option 6: *70 meals and $215 per semester of Flex Dollars

*The Block Plan gives you the option of eating at Table Rock Cafe and using your Flex Dollars at any of the other Fine Host food centers. You can also use your card to take your friends to eat at Table Rock Cafe.

Please note that Table 9 defines options 1, 2, and 3 in terms of "meals per week." When you pay your bill for housing, you pay for the meals specified in the option you've selected. However, at the end of the year the university cannot give you a refund for any meals you paid for but did not eat. Likewise, the university cannot give you a refund at the end of a week for any meals you didn't eat, nor can you carry over uneaten meals from one week to the next.

NOTE: 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

Together, this catalog and its counterpart for undergraduates, the *Boise State University Catalog*, establish many of the rules and regulations governing all students. In addition to the *Catalog*, rules and regulations are defined in the *BSU Student Handbook*, the *Residence Hall Contract*, and the *Residence Hall Handbook*. Housing contracts issued by the Office of Student Housing incorporate all of these rules and regulations, by reference.

Housing Preferences

If your application for housing is accepted, BSU will assign you to a particular room in one of the four residence halls. In doing so, BSU will make every effort to accommodate the preferences you've indicated on the application. However, priority is given to returning students over new, and to the earliest application out of all applications received (based on the date we receive the application **and** the date we receive the 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'll 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 indicated on a housing contract are not themselves contractually binding, though they will be honored whenever possible.

For more information on student housing, contact the office of Student Housing, Room 214, Administration Building, Boise State University, 1910 University Drive, Boise, ID 83725; or telephone at 208 426-3986, FAX 208 426-3305. The internet address is: http://housing.boisestate.edu/

University Apartments

Married and single students may apply to rent apartments in one of the complexes operated by BSU: University Courts, University Heights, University Manor, University Village, or University Park. Approximately 300 apartments are available, all within walking distance from the campus.

University Courts consists of one-bedroom units (small and large); two-bedroom units (small and large); and three-bedroom units, all of them carpeted and equipped with stoves and refrigerators. 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, carpeted and equipped with stoves and refrigerators. Coin-operated laundry facilities are located on site, and all utilities except electricity are provided.

University Park consists of two-bedroom and three-bedroom units, partially carpeted and equipped with stoves, refrigerators, and disposals. Coin-operated laundry facilities are located on site, and all utilities except electricity are provided.

There is also one furnished, 5 bedroom, 2 bathroom graduate apartment for students 21 years of age and older. Each resident has their own private bedroom and shares the kitchen, living room, and bathrooms. All utilities are included in this unit.

University Village consists of two-bedroom apartments, carpeted and equipped with stoves, refrigerators, dishwashers, disposals, and also have central heating and cooling systems. Coin-operated laundry facilities are located on site, and all utilities except electricity and gas are provided.

Eligibility

All BSU apartments are reserved for full-time students, taking eight credits or more. Students without children are allowed to rent apartments if they are not needed by student families. Housing is awarded based on the date your application is received and priority is given to married students or those with children.

Cost Information

Table 10 contains 2001-2002 monthly rental rates for units in the five apartment complexes operated by BSU.

Table 10.
Monthly Rental Rates for University Apartments

Rental Rates Per Month (2001-2002 Prices):	
University Courts	
Small One Bedroom	$368.00
Large One Bedroom	$434.00
Small Two Bedroom	$451.00
Large Two Bedroom	$489.00
Three Bedroom	$534.00
University Heights	
One Bedroom	$424.00
Two Bedroom	$461.00
University Manor	
One Bedroom	$424.00
Two Bedroom	$461.00
University Park	
Two Bedroom Unfurnished	$466.00
Three Bedroom Unfurnished	$499.00
Graduate Unit	$259.00
University Village	
Two Bedroom	$507.00

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, request an application form from the Office of Student Housing, Room 214, Administration Building, Boise State University, Boise, ID 83725. After completing the application, return it to the Payment and Disbursement Center, along with a check or money order for $125.00. If your application is accepted, BSU will apply the $125.00 toward your damage deposit, partially refundable when you move from the apartment.

BSU will notify you when an apartment is ready. The apartment is leased month to month. Finally, you must pay a security deposit of $250.00 (minus the $125.00 you enclosed with your application).

When you move out of the apartment, BSU refunds the balance of your damage deposit minus a $25.00 processing fee. If damage is present, some or all of your deposit may be applied to the cost of repairing the damage.

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. Therefore, we 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.

Fair-Housing Notice

Boise State University is an equal-opportunity institution and offers its living accommodations 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). As a matter of policy, assignments to university housing facilities are made without reference to race, color, national origin, or handicap. Furthermore, BSU accepts listings of off-campus, privately-owned accommodations with the understanding that the accommodations are operated in a manner consistent with BSU policies on fair housing.

If you have questions about student services, contact:

The Vice President for Student Affairs
Administration Building, Room 208
Telephone 208 426-1418
FAX 208 426-3785
http://www.boisestate.edu:80/stuserv/

Directory of 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.

The Writing Center

At the Writing Center, you can receive free one-to-one consultation on your writing, in any subject. The center is open six days a week, with hours ranging from early morning to early evening. Summer hours may vary. BSU faculty, staff, and students may use the center at the times listed below, though summer hours may vary.

- Monday 8:30 a.m. to 2:30 p.m. and 3:40 p.m. to 7:30 p.m.
- Tuesday through Thursday 8:30 a.m. to 7:30 p.m.
- Friday 8:30 a.m. to 4:30 p.m.
- Saturday 10:00 a.m. to 4:00 p.m.

To make the best use of the Writing Center, please make an appointment ahead of time. During busy times in the semester, the appointment chart fills up two to three days in advance. Bring a draft of your paper and, if possible, a copy of the assignment. If you don't have a full draft because you aren't sure how to begin or how to complete it, the Writing Center can still help.

Writing Center, Room 220, Liberal Arts Building, (208) 426-1298

Test Preparation

Assisting students to prepare for graduate school is the focus of two short courses offered by BSU Extended Studies. The non-credit courses cover the following examinations:

- Graduate Records Exam (GRE)
- Graduate Management Admissions Test (GMAT)

Extended Studies, 1015 Grant Avenue, 208 426-1709

Career Center

The Career Center offers career counseling, assistance in identifying and making career choices, and employment assistance (including instruction in writing resumes and cover letters, and videotaped interview training). The center coordinates the university internship program and houses the student employment office to assist students in finding on- and off-campus employment. Graduating students and alumni can review job listings for career positions from businesses, industries, government agencies, and school districts and schedule on-campus interviews with employers.

Career Center, 1173 University Drive, 208 426-1747
http://career.boisestate.edu

Family and Health

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

University Children's Center

Child care is provided for children of University students, faculty, and staff from 7:00 a.m. until 5:30 p.m. Monday through Friday during fall and spring semesters and a ten-week program during summer session. The Center is housed at 1830 Beacon Street, at the corner of Oakland Avenue. Children must be between the ages of six weeks and five years.

The Center, licensed by the City of Boise and accredited by the National Academy of Early Childhood Education, provides an educational development program for the total child with a staff of Professional Early Childhood Educators. Students from a number of academic and vocational departments carry out field placements and class observations during the academic year.

Children's Center, 1830 Beacon Street, 208 426-3979

Student Health Service

At no additional cost beyond the general fee paid at registration, full-time students may visit Student Health Service for outpatient medical care. Student Health Service is equipped to address more than 90% of the average student's health-care needs, and will gladly make referrals when tests or procedures are beyond the scope of the clinic's facilities and staffing. Directly across from Public Affairs/Arts West Building, the clinic is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, whenever classes are in session.

Student Health Services, 2103 University Drive, Boise, ID 83725, 208 426-1459

Counseling and Testing Center

The center's primary purpose is to help students become more effective in dealing with concerns that influence their pursuit of personal and academic goals. At no charge to students enrolled for six or more credit hours, the Counseling and Testing Center offers a wide range of services provided by staff psychologists, counselors, supervised counseling and social work interns, and paraprofessionals. Services range from individual counseling and crisis intervention to workshops and seminars aimed at enhancing the overall learning environment at Boise State University.

In particular, the center assists students in resolving such matters as: interpersonal conflicts, test anxiety, stress-related problems, depression, marital and pre-marital difficulties, academic and career decision making, and personal social/emotional adjustment problems. The Center also administers many standardized tests, including CLEP, NTE, LSAT, GRE, GMAT, MAT and others.

To make an appointment, call between 8 a.m. and 5 p.m., Monday through Friday.

Counseling and Testing Center, Room 605, Education Building, 208 426-1601

Other Student Services

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

Office of Disability Services

Located in the Administration Building, the **Office of Disability Services** seeks to expand and develop university accommodations, thereby encouraging students with disabilities to pursue their educational objectives in the most equitable and independent manner possible. Among the services provided are:

- information and orientation to the university
- registration assistance, interpreter services, and note-taker services
- classrooms and educational accommodations

In addition, a limited amount of equipment is available for temporary use by disabled students, including a TTY, modified computer terminals, and FM hearing systems. Other equipment is available at the BSU Library, including a Braille typewriter, Braille dictionary, voice activated readers, and a CCTV.

Office of Disability Services, Room 114, Administration Building 208 426-1583

The Cultural Center

Located in the Student Union Annex on the corner of Michigan Avenue and University Drive, the Center serves as a place where students can gather informally to discuss issues relating to cultural diversity and other topics of interest. The Multi-Ethnic Center provides an opportunity for interaction between the ethnic student organizations, the campus and community and promotes awareness, understanding, and appreciation of diversity. The Center directly supports the goals and programs sponsored by the ethnic student organizations on campus. It provides an atmosphere in which students are able to build relationships on campus, adjust to university life and offers a quiet study area. The Center is there to assist in making your college experience the best it can be.

The Cultural Center, SUB Annex II, 1605 University Drive, 208 426-4317

International Students

The International Admissions Office serves potential international students and admitted students prior to their arrival on campus.

The International Programs Office will provide most services for international students once they arrive on campus including advising and assisting with immigration regulations, visas, academic advising, orientation and registration.

NOTE: As soon as possible after arriving in Boise, new international students must report to the International Programs Office, which serves as a central source of information for all registered international students.

International Admissions Office, Room 107, Administration Building, 208 426-1757

International Programs Office, 1136 Euclid, 208 426-3652

Women's Center

Established as a "point of entry" where students' concerns can be handled directly or referred to the appropriate university office or community agency, the Women's Center provides support services and resources to enhance the quality of student life and promote academic success. Services include support groups, workshops, brown-bag lunches, a baby-sitting co-op, mentoring, a resource lending library, and information referrals. In addition, the center develops and promotes educational programming about the contributions, achievements, and concerns of women.

The Women's Center, SUB Annex I, 1605 University Drive, 208 426-4259

Veterans' Services

Located in the Administration Building, the Office of Veterans' Affairs provides counseling assistance to all of Idaho's Armed Forces veterans, reservists, National Guard members and 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. Veteran tutorial and work-study programs are also coordinated through the Office of Veterans' Affairs.

Office of Veterans' Affairs, Room 111, Administration Building, 208 426-3744

Extended Studies

Dean: Joyce Harvey-Morgan
Boise State University
Division of Extended Studies
1015 Grant Avenue
Telephone 208 426-1709
FAX 208 426-3467
http://www.boisestate.edu/extendedstudies/

Summer Programs

A full complement of programs, courses, and services are offered through the Division of Extended Studies, including graduate, undergraduate, and non-credit programs in several time blocks during the summer: a 3-week session, two 5-week sessions, an 8-week session, and a 10-week session. A variety of special workshops and conferences are also offered each summer. The *BSU Summer Directory of Classes* is available to students each April. For more information, call 208 426-1709.

Weekend University

Weekend University classes are offered on campus on Friday evenings, Saturdays, and Sunday afternoons. Courses are taught by BSU full-time and adjunct faculty. For more information, call 208 426-1709.

Evening Programs

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

Distance Education

Boise State offers classes and programs to individual homes, workplaces, and other campus locations through technology mediated distance education delivery methods. Undergraduate and some graduate classes are taught via

1. interactive and cable television on BSU's Knowledge Network with one-way video and two-way audio,
2. videoconferencing on BSU's Distance Learning Network with two-way video and two-way audio,
3. telecourses on Idaho Public Television,
4. radio on Boise State Radio,
5. computer-based multimedia training and
6. the Internet.

Two full master's degrees and one certificate program are offered online as described below.

Master of Science in Instructional & Performance Technology (Distance Option): Qualified candidates may now earn a Master of Science degree in a unique, nonresidential course of study, one that uses modern communication technologies (Internet, computer conferencing, etc.) to deliver time- and location-flexible instruction to students thousands of miles from campus. Most students involved with the program are preparing for careers in instructional design, job-performance improvement, human resources, training, and training management. For more information, call 208 426-4457 or 208 426-1312 or access the Web site at *coen.boisestate.edu/dep/ipt.htm*

Master of Science in Education, Educational Technology: Boise State University's College of Education leads the universities in the state in the area of training in technology integration for K-12 teachers. Teachers who want to learn how to integrate technology into the teaching/learning process can now take these classes over the Internet. These Internet-based classes also assist teachers as they prepare for the state technology assessment and can help them teach this information to others. In addition to the master's degree, teachers can take a 12-credit sequence over the Internet which, when completed, will provide them with a certificate recognizing their advanced technology skills and their ability to provide technology training for other teachers. For more information call 208 426-1966 or access the Web site at http://edtech.boisestate.edu/online

In-Service Program for Teachers

Meeting the needs of educators in the 10 southwest counties of Idaho, BSU's In-Service Program enables teachers to earn the credits required for recertification and salary advances. The program coordinator works closely with regional school districts, the Idaho State Department of Education, and the BSU College of Education to ensure that all course requests meet accreditation guidelines established by the Northwest Association, Commission of Colleges. Most of the in-service classes are conducted off campus, frequently outside of Boise. For more information, call 208 426-3191.

Note: Credits earned for in-service workshops cannot be applied to undergraduate and graduate degrees.

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.

International Programs

Academic opportunities in a variety of countries are offered through BSU International Programs. Students and faculty may spend a semester, year, or summer in England, Scotland, Denmark, Spain, France, Germany, Malta, Israel, Italy, Canada, Thailand, Chile, Costa Rica, Mexico, Australia, New Zealand, China, Ireland, or the Czech Republic.

Staying in local homes or in apartments with international students, studying a balanced curriculum, and participating in program excursions 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.

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 sessions during the fall and spring 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/international

Off-Campus Centers

At several locations in southwest Idaho, the Division of Extended Studies offers a wide range of academic courses, primarily in the evening. Advising, registration, book sales, and library services are available at the off-campus centers, and most 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
Bldg. #521, Harvard Street
Gowen Field, Boise, ID 83709
208 422-3758 or 208 426-3293

Mountain Home Air Force Base
665 Falcon
Mountain Home, ID 83648-5115
208 828-6746 or 208 426-3293

Twin Falls Campus
College of Southern Idaho Campus
Twin Falls, ID 83301
208 736-2161

Graduate Programs

Master of Science in Accountancy

College of Business and Economics
Business Building, Room 117G
Telephone 208 426-1126
FAX 208 426-4989
http://cobe.boisestate.edu/graduate
e-mail: ranchust@boisestate.edu

Program Administrator: J. Renee Anchustegui
Graduate Studies Director: Phillip Fry
Full Graduate Faculty: Denise M. English, Thomas J. English, David R. Koeppen, William C. Lathen, E. Shawn Novak, Gordon Pirrong, Robert Zeke Sarikas
Associate Graduate Faculty: Richard Gore, John McGown
Adjunct Graduate Faculty: Frank Ilett Jr.

General Information

The Master of Science in Accountancy at Boise State University is designed to prepare candidates for a career within the broader framework of business decision making.

The primary role of the program is to prepare students for careers in public accounting as certified public accountants (CPAs). The program focuses on the audit and attest functions of public accounting. The complexity of today's business environment requires public accountants to have expertise in accounting principles and procedures, and to understand the financial, managerial, legal, and tax ramifications of business transactions. CPAs must also be able to clearly communicate with clients and affected third parties, and with employees. Because of their financial expertise, CPAs frequently serve as advisors for a broad range of business decisions. Students will develop their technical expertise and business knowledge needed to provide these services. Graduates of the program are expected to become partners and owners of their own public accounting firms.

Students may also pursue more detailed study of taxation through the Master of Science in Accountancy, Taxation emphasis.

Taxation Emphasis

In a world of complex tax laws, tax professionals must have a perspective extending beyond the details of the Internal Revenue Code. They must have expertise in the functions and limitations of revenue laws, in communicating their knowledge, and in assuring the efficiency and fairness of the tax system. As tax professionals progress in their career, they will receive added responsibilities, including managing employees and being advisors for a broad range of business decisions. Graduates will develop technical competence and the business knowledge required to meet these additional demands. Thus, graduates may use their tax and business expertise to progress into positions such as controller, director of taxation, or chief financial officer of a corporation, or as a partner in or, owner of their own firms.

Other

Students may apply for Graduate Assistantships covering tuition and fees plus a stipend. Application must be received in the Business Graduate Studies office by February 1 of each year. Typical assignments include research assistantships, teaching assistantships, or specific project assignments.

Under certain conditions, and with approval of the MSA program director and the department head concerned, MSA students may earn up to a maximum of 3 credit hours of Directed Research or internship credits that apply to graduation requirements.

Students are asked to subscribe to a listserv during their first semester of study.

Application and Admission Requirements

Application for admission, fees, and transcripts should be sent to the Graduate Admissions Office, Room 141, Math/Geosciences Building, Boise State University, 1910 University Drive, Boise, ID 83725. All other materials should be sent to the Business Graduate Studies Office, B117.

Initial acceptance in order to take MSA classes is based on the applicant's academic performance, leadership experience, professional experience, aptitude for graduate study, and managerial attributes. All applicants must fulfill the following requirements.

1. Applicants to the MSA program must have graduated from an accredited college or university with a Bachelor's degree. In general, applicants to the MSA must complete the equivalent of BSU's Bachelor's degree in accountancy. Applicants to the MSA, Taxation emphasis need not have a degree in accountancy, but must have completed the equivalent of ACCT 302, Survey of Federal Income Taxation. Copies of official transcripts are also required upon initial application.

   Undergraduate students intending to enter the MSA program immediately upon completion of their Bachelor's degree programs should plan to take the Graduate Management Admission Test (GMAT) and apply to the program during the first semester of their senior year.
2. A score of 500 on the Graduate Management Admission Test (GMAT) and a cumulative GPA of 3.0 (C = 2.0) are generally considered minimal. For fall enrollment, students should arrange to take the GMAT by January. For spring enrollment, the GMAT should be taken no later than August. Undergraduate students should plan to take the GMAT by the middle of the first semester of their senior year. The GMAT may be waived for applicants who are currently CPAs, certified management accountants (CMAs), or certified

internal auditors (CIAs). Applicants should request a letter be sent directly to the Graduate Admissions Office from the appropriate state board or national organization verifying their certification status.

3. Students with English as a second language (ESL) must score a minimum of 587/240 on the TOEFL or its equivalent. ESL students must also take and pass an English proficiency exam at BSU before taking any graduate courses beyond their first semester.
4. Current professional resume which accurately reflects educational and professional work experience.
5. Two letters of reference (one preferably from an academic source) addressing the applicant's strengths and weaknesses, the benefits the applicant may receive from the MSA program, and what the applicant can contribute to the MSA program.
6. A brief response (maximum 2 pages, double spaced) discussing one of the following:
   A. Career goals both short-term and long term. What role does an MSA program, in general, and BSU's MSA program in particular, play in helping the applicant achieve these goals?
   B. Two or three situations in the past three years where the applicant has taken a leadership role. How do these events demonstrate the applicant's managerial potential?
   C. A brief, candid self evaluation. Include some discussion of the abilities and attributes the applicant believes are their strengths and some discussion of areas where the applicant would like to develop more fully. What does the applicant consider most unique or distinctive about themselves?
7. There is limited space available in the graduate program. Meeting the minimum admission standards does not guarantee acceptance into the program. Final acceptance leading to a Master's degree is based upon the Graduate College's evaluation and acceptance of the applicant.

Application packet deadlines:

Summer, Fall entry .....March 1
Spring entry .....October 1

Degree Requirements

Master of Science in Accountancy

Course Number and Title	Credits
The MSA degree requires a minimum of 30 hours of study. Up to six hours of undergraduate "G" courses may be included in meeting that requirement.	
Required Courses: ACCT 502 Advanced Tax Topics .....3 ACCT 505 Perspectives in Auditing .....3 ACCT 510 Advanced Financial Reporting .....3 ACCT 512 Financial Reporting Theory .....3 ACCT 515 Contemporary Issues in Accounting..3	15

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Master of Science in Accountancy (continued)

Elective Courses: ACCT 450G Information Systems Auditing .....3 ACCT 451G Managerial Accounting .....3 ACCT 516 Financial Statement Analysis.....3 ACCT 517 Environ Accounting and Taxation .....3 ACCT 518 International Financial Reporting.....3 ACCT 520 Research in Federal Taxation .....3 ACCT 525 Partnership Tax Law.....3 ACCT 530 Corporate Tax Law I .....3 ACCT 533 Corporate Tax Law II .....3 ACCT 535 Estate & Gift Taxation.....3 ACCT 545 Real Estate Tax Law.....3 ACCT 555 Farm & Natural Resource Taxation .....3 ACCT 560 Income Taxation of Trusts & Estates .....3 ACCT 565 Deferred Compensation Taxation .....3 ACCT 570 State Taxation & Procedures .....3 ACCT 575 International Taxation 3	6
Non-Accountancy Electives: Elective chosen from non-accountancy graduate or undergraduate G courses. Non-Accountancy Electives must be approved by the student's graduate advisor. Foundation courses in the MBA program are not available for credit towards the MSA degree requirements, nor are courses that are essentially courses in accountancy (such as MBA 532).	9
Total	**30**

Master of Science in Accountancy, Taxation

Course Number and Title	Credits
The MSA degree requires a minimum of 30 hours. Up to six hours of undergraduate "G" courses may be included in meeting that requirement:	
Required Courses: ACCT 520 Research in Federal Taxation.....3 ACCT 525 Partnership Tax Law .....3 ACCT 530 Corporate Tax Law I.....3 ACCT 535 Estate & Gift Taxation .....3 ACCT 579 Current Tax Topics & Policy Issues 3	15
Elective Courses: ACCT 517 Environ Accounting and Taxation .....3 ACCT 533 Corporate Tax Law II.....3 ACCT 545 Real Estate Tax Law .....3 ACCT 555 Farm & Natural Resource Taxation .....3 ACCT 560 Income Taxation of Trusts & Estates .....3 ACCT 565 Deferred Compensation Taxation.....3 ACCT 570 State Taxation & Procedures.....3 ACCT 575 International Taxation.....3 ACCT 577 Computer Applications in Taxation .....3 ACCT 590 Practicum/Internship.....3	3
Non-Accountancy Electives: Elective chosen from non-accountancy graduate or undergraduate G courses.	9

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Master of Science in Accountancy, Taxation (continued)	
Non-Accountancy Electives must be approved by the student's graduate advisor. Foundation courses in the MBA program are not available for credit towards the MSA degree requirements, nor are courses that are essentially courses in accountancy (such as MBA 532).	
Approved Tax Accounting Internship, Professional Paper, or other Approved Graduate course: The professional paper requires faculty approval and is coordinated and supervised by a committee assigned by the Department of Accountancy. An advisor is assigned to each MSA major in order to assist in the choices available to the candidate.	3
Total	**30**

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

ACCT — ACCOUNTANCY

ACCT 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 451G MANAGERIAL ACCOUNTING (3-0-3). 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 502 ADVANCED TAX TOPICS (3-0-3). Theory and application of federal income taxation to corporations, partnerships, limited liability companies. S corporations, fiduciaries, and tax-exempt organizations. Specific topics include the tax effects of forming and operating these various entities. The course includes an introduction to estate and gift taxation, the tax consequences of international transactions, and tax research techniques.

ACCT 505 PERSPECTIVES IN AUDITING (3-0-3). In-depth study of auditing from both internal and external auditors' perspectives. Topics include substantive testing, evidence, planning, reporting, documentation, and case studies. The course includes a major project in either internal or external auditing.

ACCT 510 ADVANCED FINANCIAL REPORTING (3-0-3). Topics include financial reporting for partnerships, estates and trusts, and insolvency. Comprehensive study of complex business combinations, consolidated financial statements, and foreign currency transactions, PREREQ: ACCT 306.

ACCT 512 FINANCIAL REPORTING THEORY (3-0-3). Study of measurement theory and its implications for asset valuation and income determination. Emphasizes development of analytical and written communication skills.

ACCT 515 CONTEMPORARY ISSUES IN ACCOUNTING (3-0-3). Comprehensive study of contemporary financial reporting and accounting issues. The course includes oral presentations and a professional paper.

ACCT 516 FINANCIAL STATEMENT ANALYSIS (3-0-3). The analysis of published financial reports from the perspectives of investors, creditors, competitors, and potential business partners. Emphasis is on the communication of information obtained from a rigorous and comprehensive analysis of the statements.

ACCT 517 ENVIRONMENTAL ACCOUNTING AND TAXATION (3-0-3). A theoretical and practical examination of the impact of environmental considerations in financial, managerial, and tax reporting. The interdisciplinary nature of environmental study, especially environmental science and environmental law, will be the starting point for developing information. The course emphasizes oral and written communication of accounting information for decision-making.

ACCT 518 INTERNATIONAL FINANCIAL REPORTING (3-0-3). Contemporary accounting practices of the major national economies. Includes directives of the European Community affecting financial reporting and pronouncements and activities of the International Accounting Standards Board.

ACCT 520 RESEARCH IN FEDERAL TAXATION (3-0-3). Instruction in all aspects of tax research including legislative, administrative and judicial sources; major tax services; tax planning software and LEXIS; writing and negotiation skills.

ACCT 525 PARTNERSHIP TAX LAW (3-0-3). Tax meaning of partnership, formation transactions between partner and partnership; determination and treatment of partnership income; sales and exchanges of partnership interest; distributions; retirement; death of a partner; drafting the partnership agreement.

ACCT 530 CORPORATE TAX LAW I (3-0-3). Tax considerations in corporate formation, distributions, redemptions, and liquidations. The accumulated earnings tax, personal holding company tax, and S corporations are included.

ACCT 533 CORPORATE TAX LAW II (3-0-3). Advanced topics in corporate taxation including reorganizations, taxation of affiliated groups, and professional service corporations.

ACCT 535 ESTATE AND GIFT TAXATION (3-0-3). Federal estate and gift taxes, including estate planning.

ACCT 545 REAL ESTATE TAX LAW (3-0-3). Basis considerations, depreciation, and problems incident to the sale, exchange, and other disposition of property, including recognition and characterization concepts.

ACCT 555 FARM AND NATURAL RESOURCE TAXATION (3-0-3). Farm, forestry, mining, and oil and gas tax practices and issues.

ACCT 560 INCOME TAXATION OF TRUSTS AND ESTATES (3-0-3). Taxation of income of trusts and estates, with emphasis of income required to be distributed currently, equivocal distributions of income corpus, and accumulation distributions; other fiduciary tax problems, including the treatment of income in respect of decedents.

ACCT 565 DEFERRED COMPENSATION TAXATION (3-0-3). Study begins with the ERISA rules and includes changes and updates for deferred compensation to the current date.

ACCT 570 STATE TAXATION AND PROCEDURES (3-0-3). State income tax issues, sales and use taxes, state and federal income tax procedures.

ACCT 575 INTERNATIONAL TAXATION (3-0-3). Multinational tax law for domestic corporations with operations abroad and nonresident citizens.

ACCT 577 COMPUTER APPLICATIONS IN TAXATION (3-0-3). State of the art tax computer software applications including emphasis on tax planning considerations; writing and negotiation skills.

ACCT 579 CURRENT TAX TOPICS & POLICY ISSUES (3-0-3). A capstone course designed to provide an in-depth study and analysis of selected contemporary tax topics and policy issues. Requires preparation and presentation of research reports.

ACCT 590 PRACTICUM/INTERNSHIP (3-0-3).

Master of Arts in Art

Department of Art
Liberal Arts Building, Room 252
Telephone 208 426-3994 or 426-3873
e-mail: ryoung2@email.boisestate.edu
e-mail: hhanlon@boisestate.edu
http://www.boisestate.edu/art/

Graduate Program Coordinators: Heather Hanlon and Richard Young
Department Chair: Gary Rosine
Full Graduate Faculty: Jim Blankenship, Don Douglass, Heather Hanlon, George Roberts, Gary Rosine, Cheryl Shurtleff-Young, Brent Smith, John Taye, Ron Taylor, Richard Young
Associate Graduate Faculty: Stephanie Bacon, James Budde, Francis Fox, Felix Heap, Karen Kosasa, Larry McNeil, Lee Ann Turner

General Information

The Master's of Arts in Art degree offers two options designed to meet the needs of specialists in art education OR visual arts. For art educator's the M.A. in Art, Art Education focuses on advanced curriculum development, an examination of contemporary issues relating to art and education, and advanced study of art history and studio practices. For studio artists the M.A. in Art, Visual Arts offers a minimum one-year intensive studio experience designed to engage the student in both theory and practice of their chosen discipline.

Application and Admission Requirements

Following admission to BSU through the Graduate Admissions Office, the following will be submitted to the Art Department M.A. Graduate Admissions Committee by April 1.

M.A. in Art, Visual Arts:

A. A statement of the student's professional objectives and philosophy of art or art education and how these will be furthered by graduate study.
B. Recommendations from three art educators or professional persons who are acquainted with the student's academic and artistic qualifications to pursue graduate study.
C. A minimum of twenty (20) slides of recent art work.

M.A. in Art, Art Education:

A. A statement of the student's professional objectives and philosophy of art or art education and how these will be furthered by graduate study.
B. Recommendations from three art educators or professional persons who are acquainted with the student's academic and artistic qualifications to pursue graduate study.
C. A minimum of twenty (20) slides of recent art work.
D. An example of academic or professional writing.
E. Evidence of any public or private teaching experiences (three years minimum).
F. Evidence of successful completion of basic K-12 art education methods course; both K-8 and 6-12 or their equivalents.

Degree Requirements

Master of Arts in Art, Art Education

Course Number and Title	Credits
Required Courses:	
ART 501 The Fine Arts: Analysis and Appreciation in the Educational Program	3
ART 551 Curriculum Development and Assessment in Art Education	3
Education Graduate Core courses	6
ART 591 Project or ART 593 Thesis	6
Electives	15
Total	**33**

Master of Arts in Art, Art Education

Course Number and Title	Credits
Required Courses:	
Art History courses	6
ART 593 Thesis	6
ART 598 Seminar in Art	3
Electives in studio emphasis	15
Total	**30**

Course Offerings

ART — ART

ART 501 THE FINE ARTS: ANALYSIS AND APPRECIATION IN THE EDUCATIONAL PROGRAM (3-0-3)(S)(Alternate Years). Emphasis will be placed on learning about and applying the psychological and aesthetic theories commonly used in the creation, appreciation, and response to the fine arts in American educational settings. Course activities include attending a variety of arts presentations. Students will develop a researched, written unit of arts curriculum appropriate for educational use. PREREQ: Graduate status or PERM/INST.

ART 521 TEACHING THROUGH EXPERIMENTAL ART MEDIA (0-6-3)(SU). Varied and unique experimental art processes and media to be used in conjunction with creative teaching techniques that emphasize critical thinking skills and the development of new or enriched art(s) curricula for K-12. Students will solve procedural problems and adapt art media to teaching experiences. Outside

reading and creative exploration will be expected, as well as a final presentation including a written paper. PREREQ: Graduate standing.

AR 531 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.

AR 532 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 534 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 539 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 551 CURRICULUM DEVELOPMENT AND ASSESSMENT IN ART EDUCATION (3-0-3)(F)(Alternate Years). Designed for those teaching or planning to teach art at any level, this course includes the history and rationale of American arts curricula K-12, the development of a selected, viable curriculum in a specific area, and the use of curriculum planning techniques appropriate in current educational settings. PREREQ: Graduate status or PERM/INST.

ART 578-589 SELECTED TOPICS (V-0-V). Media specific studio courses taught by the graduate faculty. Students will have an opportunity to have their art work analyzed and critiqued by practicing fine art professionals. PREREQ: The following courses are reserved for matriculated graduate MA and MFA art students. Exceptions may be allowed by special permission of the course instructor and the director of the program.

AR 578 SELECTED TOPICS - ART EDUCATION
AR 579 SELECTED TOPICS - COMPUTER GRAPHICS
ART 580 SELECTED TOPICS - DRAWING
ART 581 SELECTED TOPICS - PAINTING
ART 582 SELECTED TOPICS - ART METALS
ART 583 SELECTED TOPICS - SCULPTURE
ART 584 SELECTED TOPICS - PHOTOGRAPHY
ART 585 SELECTED TOPICS - CERAMICS
ART 586 SELECTED TOPICS - PRINTMAKING
ART 587 SELECTED TOPICS - GRAPHIC DESIGN
ART 588 SELECTED TOPICS - ILLUSTRATION
ART 589 SELECTED TOPICS - ART HISTORY

ART 590 PRACTICUM/INTERNSHIP (3-0-3). This course is designed primarily for students intending to teach at the college level. Assisting in the preparation and teaching of one or more studio courses; minimum of six contact hours per week required. PREREQ: Consent of instructor and Graduate Program Coordinator.

ART 591 PROJECT (6 credits). The graduate project includes a scholarly paper describing the history and results of original research used to substantiate a special view in the field of visual arts. The project will be:

1) An art exhibition subject to full graduate faculty review; or
2) A comprehensive, illustrated visual arts curriculum in written form appropriate for use in an educational setting.

The required oral comprehensive examination will be prepared, administered, and evaluated by the student's M.A. graduate advisory committee within the final month of the project presentation. PREREQ: Graduate status.

ART 593 THESIS (V-V-6). The thesis will be a scholarly paper embodying results of original research which are used to substantiate a specific view in the field of the visual arts. The required oral comprehensive examination will be prepared, administered, and evaluated by the student's M.A. graduate advisory committee within the final month of the thesis presentation. PREREQ: Graduate status.

ART 594 WORKSHOP (1-3 credits)

ART 595 READING AND CONFERENCE (1-2 credits)

ART 596 DIRECTED RESEARCH (1-3 credits)

ART 598 SEMINAR IN ART (3-0-3)(S). Upon selection of an approved topic by the M.A. graduate advisor and committee, the student will research the subject/medium/process thoroughly, present written report with annotated bibliography and an oral report of the findings utilizing visual material in their presentation to faculty and students as arranged. PREREQ: Graduate standing.

Art Courses with a "G" Designation

All 300G and 400G level courses taken for credit must be approved by the student's M.A. graduate advisory committee or graduate advisor. A limit of nine (9) semester hours can be taken at the 300 or 400 "G" level for credit in the MA in Art program. No course numbered below 500 carries graduate credit unless the "G" is affixed.

It is understood that graduate students enrolled in "G" courses will be required to do extra work in order to receive graduate credit for the courses. Only graduate faculty will supervise graduate students in 300 or 400 level courses carrying the "G" designation. The faculty member, in discussion with the student prior to admission into the course, will define the amount, description, and evaluation of the work to be done.

ART 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 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 303G STUDIO IN GRAPHIC DESIGN (0-6-3)(F). The role of the computer in the modern practice of Graphic Design is stressed. Limited computer lab time is available during class. Emphasis is on conceptualizing and the development of a personal problem-solving methodology. Particular attention is given to development of precise verbal presentation skills. PREREQ: ART 333.

ART 304G ADVANCED STUDIO IN GRAPHIC DESIGN (0-6-3)(S). Continued exploration of the role of computers in modern design. Problems of a more complex nature are presented. Students are encouraged to develop and expand both the verbal and visual elements within a design problem. Verbal presentation skills and written rationales are integrated within the visual format. PREREQ: ART 303, ART 333.

ART 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 106 prior to ART 305.

ART 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, 222.

ART 309G STUDIO IN PRINTMAKING (0-6-3)(F/S). Introduction to color printing and advanced printmaking in any of the following specialized areas, each of which may be repeated once for credit: intaglio, lithography, serigraphy, and relief printing. PREREQ: ART 209.

ART 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 or PERM/INST.

ART 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: ART211 or PERM/INST.

ART 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 219 or ART 217 or PERM/INSTR.

ART 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 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 321G ELEMENTARY SCHOOL ART METHODS (3-1-3). This course is designed to prepare future elementary 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 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 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 325G STUDIO IN CERAMICS (0-6-3)(F/S). Advanced instruction in clay and glaze materials, fabrication methods. May be repeated once for credit. PREREQ: ART 225 or 226.

ART 333G COMPUTER I: TEXT AND IMAGE] (2-4-4)(F/S). This course will familiarize the student with current programs for publication design, electronic prepress methods, illustration, fine art, photo manipulation and interactive programming. Available software includes the latest in illustration, graphic design, three dimensional applications, animation, paint and interactive programs. PREREQ: PERM/INST.

ART 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 201.

ART 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 201.

ART 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 BS-330 AD), with emphasis on the artistic achievements of the Roman Empire. Recommended: ART 201.

ART 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 201.

ART 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 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 345G STUDIO IN CREATIVE PHOTOGRAPHY (2-4-3)(F/S). Advanced study emphasizing techniques of color slides. Color theory and composition will be covered in the course as well as the processing of slides and various methods of projections. Various approaches to lighting and laboratory work will be taught. Adjustable camera required. May be repeated for credit. PREREQ: ART 251 or PERM/INST.

ART 346G PHOTOGRAPHY: ZONE SYSTEM (2-4-3)(F). 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. Offered odd numbered years.

ART 351G SECONDARY SCHOOL ART METHODS (3-2-4)(F). For students expecting to teach art education 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 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 354G NORTHERN RENAISSANCE ART (3-0-3)(F/S)(Alternate Years). An examination of 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 355G ITALIAN RENAISSANCE ART (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 202.

ART 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 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 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 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 112, ART 105 and ART 106.

ART 362G ILLUSTRATION II (0-6-3)(S). 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 365G BAROQUE ART (3-0-3)(F/S)(Alternate Years). A survey of European visual culture during the last 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 202.

ART 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 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 writing will be assigned. Advisable to take ART 302 prior to ART 371.

ART 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 409G STUDIO IN PRINTMAKING (0-6-3)(F/S). Individual problems in any of the following areas; woodcut, lithography, intaglio and serigraphy. May be repeated for credit. PREREQ: ART 309.

ART 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 or PERM/INST.

ART 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 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 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, 222, 307.

ART 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 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 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 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 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 450G ART HISTORY PRACTICUM (1-4 Variable)(F/S). Directed practical experience in organizing, illustrating, teaching and evaluating student performance in art history classes. Students will receive credit for working as an assistant in selected classes designated by art history faculty each semester. May be repeated as often as desired but only a total of 3 credit hours may be applied toward any art history requirement. PREREQ: PERM/INST (Graded: Pass/Fail).

ART 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 or ART 371 or PERM/INST.

ART 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 in art history or graduate status or PERM/INST.

ART 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 462G ADVANCED STUDIO IN ILLUSTRATION II (0-6-3)(F). Exploration of 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: AR 461 and PERM/INST.

ART 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 488G GRAPHIC DESIGN STUDIO (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.

Master of Arts or Science in Biology

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Department Chair: James Munger
Full Graduate Faculty: Marc Bechard, James Belthoff, Russell Centanni, Alfred Dufty, Cheryl Jorcyk, Peter Koetsier, James Long, Richard McCloskey, James Munger, Stephen Novak, Julia Thom Oxford, Robert Rychert, Marcelo Serpe, James Smith, Marcia Wicklow-Howard
Associate Graduate Faculty: Ian Robertson, Troy Rohn
Adjunct Graduate Faculty: Charles Baker (Emeritus), Jonathan Bart, John Beecham, William Burnham, Tom Cade (Emeritus), Dorothy Douglas (Emerita), Susan Earnst, Eugene Fuller (Emeritus), Mark Fuller, Nicholas Hadjokas, Stuart Hardegree, Lloyd Kiff, Steven Knick, Michael Kochert, Yongsheng Ma, Carl Marti, Jr., John Marzluff, Bill Mattox, Rosemary Mazaika, Hugh McIsaac, Wayne Melquist, Richard Olson, Rebecca Pullen, Bruce Rieman, Gary Roloff, Roger Rosentreter, Randall Ryan, Victoria Saab, Rex Sallabanks, Michael Spence, Karen Steenhof, Dennis Stevens, Richard Watson, David Whitacre, Clayton White, Rick Williams, Denise Wingett

General Information

The Department of Biology offers degree programs leading to either a Master of Arts (M.A.) or a Master of Science (M.S.) degree. Professional biologists, teachers in public and private schools, and others can use these programs to increase their knowledge base and to advance professionally.

Admission Requirements

Enrollment in the program is limited. Applications are due February 1 for fall admission and October 1 for spring admission. For additional information on the department, faculty, and potential projects, visit the departmental web site (www.boisestate.edu/biology). To apply:

1. Send the following three items to: Graduate Admissions Office, Boise State University, 1910 University Drive, Boise, ID 83725-1110.
   - A graduate application along with the $20 matriculation fee. Please submit the application *PRIOR* to submitting any additional items.

   - Have the Registrar(s) of *ALL* post-secondary institutions attended send official transcripts to the Graduate Admissions Office.
   - Have Graduate Record Exam scores forwarded to the Graduate Admissions Office.
2. Send the following to: Graduate Coordinator, Department of Biology, Boise State University, 1910 University Drive, Boise, ID 83725-1515.
   - A cover letter discussing professional goals and reasons for wishing to study biology at Boise State University. MS applicants should also discuss research interests, especially as they mesh with those of faculty members. MA applicants should also discuss what goals they wish to achieve by enrolling, specifically discussing project interests and desired areas of emphasis for course work. Also note any contact you've had with faculty members.
   - Three letters of recommendation.

All individuals admitted to REGULAR STATUS as graduate students in biology must have:

- an undergraduate GPA of at least 3.00 on a 4-point system;
- results that average in the 50th or higher percentile in the verbal, quantitative, and analytical portions of the GRE exam;
- an undergraduate degree in biology or a closely related field.

PROVISIONAL STATUS may be granted to those otherwise promising applicants who do not meet GPA or GRE requirements or who have undergraduate course work deficiencies.

Initial evaluation of applicants will be undertaken by the Graduate Student Oversight Committee; final decisions on admission will depend on qualifications of the candidates and openings that exist.

Each student who has been accepted into our program will form an advisory committee, which will consist of at least three members: the student's major professor and two other members. The committee will determine if academic deficiencies exist that must be remedied, help design thesis/project research, help choose appropriate graduate course work, evaluate the thesis/project, and conduct the final defense or comprehensive examination.

The Graduate Student Oversight Committee will, in cooperation with the student's major professor and advisory committee, assess progress in thesis/project research, progress and performance in course work and performance as a teaching assistant (where applicable). Continuing enrollment in the program requires a 3.0 GPA and satisfactory progress toward completing the degree.

Financial Aid

Teaching Assistantships that include a stipend, a tuition and fee waiver, and student health insurance will be available on a competitive basis. Additional support for master's research projects is available from faculty members. Other forms of financial aid, such as loans or the College Work Study Program, are available to graduate students. Prospective students should contact the Financial Aid Office and consult the BSU catalog.

Degree Requirements

The M.S. is a research-based degree. The M.S. candidate will complete a thesis based on original research carried out by the student. Ideally, the thesis should make a significant contribution to the body of scientific knowledge and be of sufficient quality to warrant publication in a peer-reviewed journal.

The M.A., Project Option is an application-based degree and is considered to be a terminal degree (except for students intending to attend professional school); students wishing to later pursue a Ph.D. should enroll in the M.S. program. In addition to completing substantial course work, the M.A. candidate will complete a project that may be an application or synthesis of original research carried out by others. Examples of such projects include development of biology-based curricula, compilation and analysis of studies on a range of species, review and the synthesis of a body of ideas or data, and development of a resource management plan based on relevant studies.

The M.A., Examination Option is a course work-based degree and is considered to be a terminal degree (except for students intending to attend professional school); students wishing to later pursue a Ph.D. should enroll in the M.S. program. The M.A. candidate will complete a wide range of relevant course work. At the end of course work, the candidate will be required to pass a comprehensive examination. The examination is to be tailored by each candidates' committee to emphasize the areas covered by course work. After the candidate has completed the written portion of the examination, the candidate will meet with the committee for an oral review prior to final approval or rejection of the written examination.

Completion of a degree program requires an average grade of B or better for all courses applied to the 30-33 credits required. All requirements for the degree and graduation must be completed within a period of seven years. M.S. students and M.A., Project Option students will be expected to produce a written thesis/project proposal and give an oral presentation of that proposal during their first year and, following completion of the thesis/project, give an oral defense of the thesis/project and an exit seminar to present results to the public.

Master of Arts in Biology, Project Option

Course Number and Title	Credits
BIOL 598 Graduate Seminar	2
BIOL 579 Research in the Biological Sciences (for two semesters)	2
BIOL 591 Project	6
Electives to be chosen in consultation with advisor and committee: Electives for the M.A. may include up to a combined total of 6 credits of workshop credits, practicum/ internship credits, directed research credits. A total of 9 credits may include approved courses taken outside the biological sciences, workshops, practicum/internship, and directed research. Workshop, directed research, and practicum/ internship credits are limited to a maximum of 3 credits each.	23
Total	**33**

Master of Arts in Biology, Examination Option

Course Number and Title	Credits
BIOL 598 Graduate Seminar	2
BIOL 579 Research in the Biological Sciences (for two semesters)	2
Electives to be chosen in consultation with advisor and committee: Electives for the M.A. may include up to a combined total of 6 credits of workshop credits, practicum/ internship credits, directed research credits, and credits from courses outside the biological sciences. A total of 9 credits may include approved courses taken outside the biological sciences, workshops, practicum/internship, and directed research. Workshop, directed research, and practicum/ internship credits are limited to a maximum of 3 credits each.	29
Total	**33**

Master of Science in Biology

Course Number and Title	Credits
BIOL 501 Biometry	4
BIOL 598 Graduate Seminar	2
BIOL 593 Thesis	6
Electives to be chosen in consultation with advisor and committee: Electives for the M.S. may include a maximum of 6 credits of directed research.	18
Total	**30**
M.S. students may not use pass/fail credits, workshop credits, or practicum/internship credits to fulfill graduation requirements.	

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

BIOL — BIOLOGY

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

BIOL 323G ECOLOGY (3-3-4)(F/S). A study 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 203 and Z 130 or PERM/INST.

BIOL 331G PHARMACOLOGY (3-0-3)(F). An examination of basic pharmacological principles including mechanisms of drug action in relation both to drug-receptor interactions and to the operation of physiological and biochemical systems. Topics will include 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 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 401G ORGANIC EVOLUTION (3-0-3)(S). Philosophical basis of evolutionary theory. Detailed examination of genetic variation, mechanisms of evolutionary change, adaptation, speciation, origin of diversity, and phylogeny. Genetics recommended. PREREQ: BIOL 323 and BIOL 343 or PERM/INST.

BIOL 412G GENERAL PARASITOLOGY (2-3-3)(Offered Occasionally). 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 415G APPLIED AND ENVIRONMENTAL MICROBIOLOGY (3-3-4)(S). Microbial populations and processes in soil and water. Water and food-borne pathogens. Microbiological and biochemical methods of environmental assessment. PREREQ: BIOL 303 or BIOL 205, and CHEM 317-319, or PERM/INST.

BIOL 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 445G HUMAN GENETICS (3-0-3)(S). Taught 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 501 BIOMETRY (4-0-4)(F). An application of statistical methods to problems in the biological sciences. Basic concepts of hypothesis testing; estimation and confidence intervals; t-tests and chi-square tests. Linear and nonlinear regression theory and analysis of variance. Techniques in multivariate and nonparametric statistics. PREREQ: MATH 147 or equivalent, or PERM/INST.

BIOL 502 POPULATION AND COMMUNITY ECOLOGY (3-0-3)(F). The structure of populations and communities. Competition, predation, life history strategies, demography, population regulation, and species diversity are examined from experimental and theoretical perspectives. PREREQ: BIOL 323 or equivalent, or PERM/INST.

BIOL 503 ADVANCED BIOMETRY (3-3-4)(S). A survey of experimental design and selected multivariate techniques. The course is designed to assist students in selecting proper statistical techniques for gathering and analyzing biological data, and correctly interpreting the statistical analysis of their data. Prior experience with Statistical Analysis System (SAS) is helpful. Offered even-numbered years. PREREQ: BIOL 501 or PERM/INST.

BIOL 504 TEACHING ASSISTANT SKILLS AND ISSUES (2-0-2). Discussion of learning styles, testing strategies, disability issues, and other topics relevant to being a teaching assistant for undergraduate biology laboratories. PREREQ: PERM/INST.

BIOL 505 APPLIED RAPTOR BIOLOGY (0-3-2)(F)(Offered odd-numbered years). A study of the techniques appropriate to the study of the ecology, behavior, and physiology of raptors and other birds. Field trips will be taken in addition to regularly scheduled class. PREREQ: Graduate standing in Biology or Raptor Biology or PERM/INST.

BIOL 506 RAPTOR ECOLOGY (3-0-3)(S). Theoretical ecology as applied to birds of prey. Strategies of reproduction, habitat selection, foraging and spacing; theory of competition and predator-prey interactions; niche theory and community structure; raptor management. PREREQ: BIOL 323 or equivalent, or PERM/INST.

BIOL 517 SPECIES AND SPECIATION (3-0-3)(F). Species definitions are fundamental for all investigations in the biological sciences. This course will investigate the numerous species concepts proposed over the last 100 years with an emphasis on primary literature. Concepts to be discussed will include biological, phylogenetic, genealogical, and evolutionary species concepts. The second part of the course will emphasize the processes involved in speciation, looking at both micro- and macroevolutionary events. Offered odd-numbered years. PREREQ: BIOL 401-401G (or equivalent) or PERM/INST.

BIOL 522 CONSERVATION BIOLOGY (3-0-3)(S). 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, overexploitation, and restoration ecology. Discussion of the social, political, and economic aspects of conservation biology. Offered odd-numbered years. PREREQ: BIOL 323.

BIOL 526 INSECT ECOLOGY (3-0-3)(S)(Offered even-numbered years). An in-depth exploration of insect ecology, evolution and behavior. Topics include 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 527 STREAM ECOLOGY (3-3-4)(F). The biology and ecology of flowing waters is emphasized; their biota, management, and ecology at both the community and ecosystem level will be discussed. Offered odd-numbered years. PREREQ: BIOL 323 or PERM/INST.

BIOL 528 GEOGRAPHIC INFORMATION SYSTEMS IN BIOLOGY (3-0-3)(S). Discussion of the use of Geographic Information Systems to apply spatial data to ecological problems. Analysis of the ways that spatial relations affect patterns, processes, and decision making at multiple scales. Specific topics covered include GAP analysis, habitat modeling, spatially-explicit population

modeling, landscape ecology, home range analysis, interpretation of satellite imagery, and natural resource issues. PREREQ: Graduate standing or PERM/INST.

BIOL 529 MODERN METHODS IN ECOLOGY AND BEHAVIOR (2-3-3)(S). Instruction in the theory, practice, and analysis of modern methods used in ecological and evolutionary studies will be provided. Methods to be covered include: cytology, isozyme electrophoresis, DNA restriction site analysis, DNA sequencing, and RAPD analysis. Offered odd-numbered years. PREREQ: PERM/INST.

BIOL 533 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 541 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 542 MOLECULAR NEUROBIOLOGY (3-0-3)(F). Emphasis will be on the molecular aspects of neurobiology. Topics will include: 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 561 ADVANCED TOPICS IN AQUATIC BIOLOGY (1-0-1)(F/S). An exploration of the current primary literature of aquatic biology. Topics vary, and may include community dynamics of algae, fish, zooplankton, and benthic invertebrates; tropic 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 562 ADVANCED TOPICS IN ANIMAL BEHAVIOR (2-0-2)(F/S). An 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 565 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 566 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 or BIOL 565 is recommended. PREREQ: BIOL 343 and PERM/INST.

BIOL 579 RESEARCH IN 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. Graded pass/fail. May be repeated once for credit.

BOT — BOTANY

BOT 302G PLANT ANATOMY AND MICROTECHNIQUE (3-3-4)(F). 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. Offered odd-numbered years. PREREQ: BIOL 203 and BIOL 301 or PERM/INST.

BOT 305G SYSTEMATIC BOTANY (2-6-4)(S). Fundamental problems of taxonomy. Discussion of historical developments of classification systems and comparison of recent systems. Instruction on the use of keys and manuals. PREREQ: BIOL 203 or PERM/INST.

BOT 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 203 or PERM/INST.

BOT 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 203, PERM/INST.

BOT 401G PLANT PHYSIOLOGY (3-3-4)(F). 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. Offered odd-numbered years. PREREQ: BIOL 203 and CHEM 317 or PERM/INST.

BOT 524 PLANT COMMUNITY ECOLOGY (3-3-4)(F). 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 interaction 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. Offered even-numbered years. PREREQ: BIOL 323 or PERM/INST.

BOT 541 PLANT DEVELOPMENTAL BIOLOGY (3-3-4)(S). A description of plant development from a molecular and cellular perspective. Topics discussed include gene expression and cell signaling pathways, and their roles in the control of embryogenesis, plant growth, flowering, and fruit maturation. Examination of techniques and model systems used in the study of plant development. Each student will complete a project. Offered even-numbered years. PREREQ: BIOL 301.

ZOOL — ZOOLOGY

ZOOL 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: ZOOL 230 or PERM/INST.

ZOOL 305G ENTOMOLOGY (2-6-4)(F). This course examines the general anatomy, physiology and developmental biology of insects, as well as their ecological and evolutionary relationships and interactions 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 341G ORNITHOLOGY (2-3-3)(S). Birds as examples of biological principles: classification, identification, ecology, behavior,

life histories, distribution, and adaptations of birds. Two weekend field trips. Offered odd-numbered years. PREREQ: ZOOL 230, PERM/INST.

ZOOL 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 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: ZOOL 230 or PERM/INST.

ZOOL 400G VERTEBRATE HISTOLOGY (2-6-4)(F). Microscopic anatomy of cell, tissues, and organ systems of vertebrates. Major emphasis will be on mammalian systems. ZOOL 301 or ZOOL 351 is recommended prior to enrollment. PREREQ: ZOOL 230 or PERM/INST.

ZOOL 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 421G MAMMALOGY (2-3-3)(S). The biology of mammals: ecology, life histories, reproduction, classification, identification, distribution, and adaptations. One weekend field trip. Offered even-numbered years. PREREQ: BIOL 323 or an upper division Zoology course.

ZOOL 509 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: ZOOL 230, CHEM 317 or PERM/INST.

ZOOL 515 AVIAN PHYSIOLOGY (3-0-3)(F). The physiology of flight, cardiovascular, pulmonary, digestive, water and electrolyte, egg, and reproductive physiology are covered. Correlations between unique aspects of avian structure and function are emphasized. Offered odd-numbered years. PREREQ: Graduate standing or PERM/INST.

ZOOL 525 AQUATIC ENTOMOLOGY (3-3-4)(F). 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. Offered in even-numbered years. PREREQ: BIOL 323.

ZOOL 534 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. Offered odd-numbered years. PREREQ: BIOL 323 or PERM/INST.

ZOOL 535 BEHAVIORAL ENDOCRINOLOGY (3-0-3)(F). An examination of the endocrine system and the hormonal mechanisms associated with social behavior and aggression, reproductive and parental behavior, biological rhythms, etc. Each student is expected to investigate and lead a discussion on an assigned topic. Offered even-numbered years. PREREQ: Animal Physiology or PERM/INST.

SPECIAL TOPICS. Courses are offered in response to student interest and are in addition to formal courses listed above.

Master of Business Administration

College of Business and Economics
Business Building, Room 117G
Telephone 208 426-1126
FAX 208 426-4989
http://cobe.boisestate.edu/mba
e-mail: ranchust@boisestate.edu

Program Administrator: J. Renee Anchustegui
Graduate Studies Director: Phillip Fry

Accountancy

Full Graduate Faculty: Denise M. English, Thomas J. English, David R. Koeppen, William C. Lathen, E. Shawn Novak, Gordon Pirrong, Robert Zeke Sarikas
Associate Graduate Faculty: Richard Gore, John McGown
Adjunct Graduate Faculty: Frank Ilett Jr.

CIS & Production Management

Full Graduate Faculty: Robert Anson, Thomas Foster, Phillip Fry, V. Lyman Gallup, Gary I. Green, David F. Groebner, Jerry LaCava, Robert Minch, Murli Nagasundaram, Patrick Shannon, Gregory Wojtkowski, Wita Wojtkowski
Associate Graduate Faculty: Emerson C. Maxson

Economics

Full Graduate Faculty: Peter Lichtenstein, Christine Loucks, Richard Payne, Larry Reynolds, Chuck Skoro, Charlotte Twight

Management

Full Graduate Faculty: John Bigelow, Michael B. Bixby, Roy Glen, Newell Gough, Nancy K. Napier, William N. Ruud, William A. Wines
Associate Graduate Faculty: Christopher Baughn, James E. Wanek

Marketing and Finance

Full Graduate Faculty: Dwayne Barney, Alan Frankle, Mohan Limaye, Douglas J. Lincoln, Matthew Maher, K. G. McCain, Nina Ray, Diane Schooley, Harry White
Associate Graduate Faculty: Keith Harvey, Jason MacDonald, Ed Petkus, Richard Pompian, Kirk Smith

General Information

The Master of Business Administration at Boise State University is designed to provide a high quality academic program to assist in the development of tomorrow's business leaders.

Emphasizing the needs of fully employed students, the program strives to provide students with a thorough grounding in each of the functional business areas. Integration of student's knowledge across these functional disciplines is one of the program's key objectives.

The MBA program provides a general management perspective that requires students to consider the social, environmental,

and ethical context of managerial actions and enables them to target problems, select viable alternatives, and take appropriate action.

Teaching styles among the faculty range from formal textbook and supplementary syllabus readings to case methods, simulation and fieldwork. In addition to lectures, research projects, case analysis, discussion groups and guest speakers, several courses incorporate group projects as an integral part of the learning.

Graduate Assistantships are available and cover the student's tuition and fees plus a stipend. Applicants must be admitted to the MBA program during their year of service. Application deadlines: Fall - February 1; Spring - October 1.

Under certain conditions, and with approval of the MBA program director and the department head concerned, MBA students may earn up to a maximum of 3 credit hours of Directed Research and/or internship credits which apply to graduation requirements.

Students are asked to subscribe to a listserv and submit a proposed schedule of study on an access database during their first semester of study.

Application and Admission Requirements

Application for admission, transcripts, and fees should be sent to the Graduate Admissions Office, Room 141, Math/Geosciences Building, Boise State University, 1910 University Drive, Boise, ID 83725. All other admission materials required for the MBA should be sent to the Business Graduate Studies office, Room B117G.

Initial acceptance in order to take MBA classes is based on the applicant's prior academic performance, leadership experience, professional experience, aptitude for graduate study, general motivation, and managerial attributes. All applicants must fulfill the following requirements prior to enrolling in MBA classes:

1. Applicants to the MBA program must have graduated from an accredited college or university with a Bachelor degree. Copies of official transcripts are also required upon initial application.
2. A GMAT score of 500 and a cumulative GPA of 3.0 (C = 2.0) are generally considered minimal. New applicants for the program should furnish documentary evidence of GMAT scores at the same time official transcripts are provided. For fall enrollment, students should arrange to take the GMAT by January. For spring enrollment, the GMAT should be taken no later than August.
3. Students with English as a second language (ESL) must score a minimum of 587/240 on the TOEFL or its equivalent. ESL students may also be asked to take and pass an English proficiency exam at BSU before taking any graduate courses beyond their first semester.
4. Two years of significant work experience. This may be waived if the applicant has a GMAT score of 600 or higher.
5. Current expanded professional vitae which accurately reflects professional work experience.
6. Two letters of reference (one preferably from an academic source) which address the applicant's strengths, weaknesses, benefits the applicant may receive from our MBA program, and what the applicant can contribute to our MBA program.
7. A brief response (maximum 2 pages, double spaced) discussing one of the following:
   A. Career goals, both short-term and long-term. What role does an MBA program, in general, and BSU's MBA program in particular, play in helping the applicant achieve these goals?
   B. Two or three situations in the past three years where the applicant has taken a leadership role. How do these events demonstrate the applicant's managerial potential?
   C. A brief, candid self evaluation. Include some discussion of the abilities and other attributes the applicant believes are their strengths and some discussion of areas where the applicant would like to develop more fully. What does the applicant consider most unique or distinctive about themselves?
8. A student must be accepted to either the MBA program or another Master's program to take MBA classes.

Final acceptance leading to a Master degree is based upon the Graduate College evaluation and acceptance of the applicant.

Note: A good understanding of algebra, calculus, and computer competency are essential to successful progress in the MBA program. Students may wish to brush up on these skills prior to admission as they will be required to pass math and computer competency exam prior to the end of their first semester of graduate course work.

Undergraduate students will no longer be allowed in MBA classes under the University's Permit for Seniors to Take Graduate Courses policy.

Application packet deadlines:

Summer, Fall entry .....March 1
Spring entry .....October 1

Students will typically be notified of their admittance status by March 31 or October 31.

Degree Requirements

The MBA requires a minimum of 33 semester credit hours and a maximum of 54 semester credit hours. The exact number of credits required depends upon the student's prior academic experience.

Specialization: While there is no major available in the MBA program, once students satisfy the functional core of courses, they can emphasize an area of concentration with their elective credits. This specialization can expand beyond business to such areas as health policy or public administration.

Master of Business Administration	
Course Number and Title	**Credits**
Foundation Courses: The foundation courses assume the student has had no previous course work in business. Conversely, any or all of these courses may be waived if the student has already taken them at an accredited business school, such as would be the case if the student had completed a baccalaureate degree in business within the last five years. MBA 512 Business Statistics .....3 MBA 514 Economic Theory and Analysis.....3 MBA 516 Law for Managers.....3 MBA 517 Accounting for Managers.....3 MBA 523 Production and Operations Management ..3 MBA 525 Corporate Finance.....3 MBA 529 Marketing Management.....3	21
Advanced Courses: MBA 531 Business Perspectives.....3 MBA 532 Accounting and Control Issues.....3 MBA 533 Operations and Information Issues.....3 MBA 536 Business in a Global Society.....3 MBA 538 Organizational Issues .....3 MBA 539 Marketing and Customer Service Issues...3 MBA 545 Financial Management Issues .....3 MBA 546 Strategic Management.....3	24
Electives: ECON 560 Economics of Public Policy.....3 MGMT 541 Human Resource Management.....3 MBA 580 Selected Topics - Accounting MBA 581 Selected Topics - Information Systems MBA 582 Selected Topics - Economics MBA 583 Selected Topics - Finance MBA 584 Selected Topics - Operations/Production MBA 585 Selected Topics - Management MBA 586 Selected Topics - Marketing MBA 587 Selected Topics - International Business MBA 589 Individual Development Series MBA 590 Internship MBA 596 Directed Research 1-3	9
Two undergraduate "G" courses may be taken for graduate credit if cleared by the Graduate Program Director.	
Total	**33-54**

Course Offerings

MBA — MASTER OF BUSINESS

FOUNDATION COURSES

MBA 512 BUSINESS STATISTICS (3-0-3). Examines the use of statistics in decision-making, presentation and summarization of data, estimation, hypothesis testing, regression analysis, analysis of variance, time series and forecasting, and non-parametric methods.

MBA 514 ECONOMIC THEORY AND ANALYSIS (3-0-3). Offers an accelerated, integrated introduction to economic analysis of the price system and the aggregate performance of developed economies, including supply and demand, basic market structures, income distribution, employment, inflation, growth and international trade.

MBA 516 LAW FOR MANAGERS (3-0-3). Explores the history and development of the partnership and corporate forms of business organization and the legal environment which creates and regulates a manager's duties toward the corporation, employees, shareholders, and members of the general public.

MBA 517 ACCOUNTING FOR MANAGERS (3-0-3). Provides a working knowledge of financial and managerial accounting tools, techniques and procedures.

MBA 523 PRODUCTION AND SYSTEMS MANAGEMENT (3-0-3). Emphasizes the management of the production/operation function and its integration with other organizational activities, including forecasting models, design and layout of the production system, scheduling, location analysis, quality control, and material acquisition. PREREQ: MBA 512.

MBA 525 CORPORATE FINANCE (3-0-3). Examines concepts and techniques of corporate institutional and investment finance, including time value of money, corporate banking relationships, current assets management, and efficient markets. PREREQ: MBA 512 and MBA 517.

MBA 529 MARKETING MANAGEMENT (3-0-3). Covers activities and models used in marketing, identifying and interpreting buyers' needs, market segmentation, and designing a balanced marketing program.

ADVANCED COURSES

MBA 531 BUSINESS PERSPECTIVES (3-0-3). Examines major forces transforming business (e.g., globalization, information technology, market segmentation and workforce diversity) as well as strategic and tactical actions firms take in response to such challenges, including mass customization, flexible manufacturing, downsizing, outsourcing and strategic partnering. PREREQ: MBA 512, MBA 514, MBA 516, MBA 517, MBA 523, MBA 525, MBA 529. Students can take one of these courses concurrently with the Perspectives course if all the other prerequisite courses have been completed. In addition, MBA 531 (Business Perspectives) can also be taken concurrently with one Advanced course if it is the first Advanced course a student takes. Only one Foundation and/or Advanced course can be taken concurrently with MBA 531.

MBA 532 ACCOUNTING AND CONTROL ISSUES (3-0-3). The overall objective of this course is an understanding of accounting control systems and a thorough understanding of the emerging issues in cost management. The integration of content from computer information systems, production and cost/managerial accounting is a central part of the course. PREREQ: MBA 531, MBA 517 or equivalent. MBA 531 (Business Perspectives) is also required, but can be taken concurrently with this course if it is the first Advanced course a student takes. Only one Advanced course can be taken concurrently with MBA 531.

MBA 533 OPERATIONS AND INFORMATION ISSUES (3-0-3). Considers the current state of technology in operations and information technology and how advances in these technologies interact to affect the strategic decisions organizations make about providing goods and services to a dynamic customer base. PREREQ: MBA 531, MBA 512 or equivalent.

MBA 536 BUSINESS IN A GLOBAL SOCIETY (3-0-3). Analyzes the relationships between business and economic, ethical, legal, political, and social systems and the effects of these relationships on management decisions from national and international perspectives. PREREQ: MBA 531, MBA 516 or equivalent.

MBA 538 ORGANIZATIONAL ISSUES (3-0-3). Examines contemporary issues in managing organizations and people from a general manager's perspective, including extended enterprise management, organization design, organization learning and the management of change. PREREQ: MBA 531.

MBA 539 MARKETING AND CUSTOMER SERVICE ISSUES (3-0-3). Analyzes and integrates marketing concepts, models, and tools necessary to produce and execute marketing strategies focused upon customer needs and expectations, with emphasis on identifying "market" opportunities and challenges as well as assessing organizational marketing strengths and weaknesses. PREREQ: MBA 531, MBA 529 or equivalent.

MBA 545 FINANCIAL MANAGEMENT ISSUES (3-0-3). Reviews dynamic financial analysis which emphasizes the current practical applications and complexities of capital budgeting, arbitrage arguments, risk-return models and financing alternatives. PREREQ: MBA 531, MBA 525, and MBA 514 or equivalents.

MBA 546 STRATEGIC MANAGEMENT (3-0-3). Examines how organizations obtain and deploy resources within a changing environment to gain and sustain a competitive advantage and includes analysis, formulation and implementation of business and corporate strategy. Integration of student's prior course work across functional areas is a major component of this course. PREREQ: MBA 531, MBA 532, MBA 533, MBA 536, MBA 538, MBA 539, MBA 545. In special circumstances, at most one of these courses can be taken as a co-requisite given prior permission of the instructor.

ELECTIVES

ECON 560 ECONOMICS OF PUBLIC POLICY (3-0-3) (Intermittent). Contribution of economic analysis to the justification, design and implementation of economic policy. The issue surrounding the need for public policy a private property, market economy and the benefits and costs associated with government intervention. The relationships between the goals and the instruments of U.S. economic policy. PREREQ: MBA 514.

MGMT 541 HUMAN RESOURCE MANAGEMENT (3-0-3) (Intermittent). Effective management of human resources including discussion of the supervisory processes conducive to reducing labor costs and increasing productivity. Special attention is given the human, organizational, and environmental constraints which limit managerial actions. Techniques for effectively functioning within these constraints.

SELECTED TOPICS: Contemporary topics courses offered intermittently.

MBA 580 SELECTED TOPICS - ACCOUNTING
MBA 581 SELECTED TOPICS - INFORMATION SYSTEMS
MBA 582 SELECTED TOPICS - ECONOMICS
MBA 583 SELECTED TOPICS - FINANCE
MBA 584 SELECTED TOPICS - OPERATIONS/PRODUCTION
MBA 585 SELECTED TOPICS - MANAGEMENT
MBA 586 SELECTED TOPICS - MARKETING
MBA 587 SELECTED TOPICS - INTERNATIONAL BUSINESS

MBA 589 INDIVIDUAL DEVELOPMENT SERIES. Each student's skill set will be assessed during their first year of study and a program of skill development activities will be agreed to with the student's advisor. Development activities may include: skill-building workshops; approved seminars; in-class assignments (such as presentations, team projects, problem solving facilitation); organizational practicums; public service practicums. PREREQ: None.

MBA 590 INTERNSHIP. Available on a selective, limited basis. MBA students should consult with Director.

MBA 596 DIRECTED RESEARCH (1-3 credits). Involves special projects undertaken by the student, consisting of individual work suited to the needs and interests of the student. The course embodies research, discussions of the subject matter and procedures with a designated professor, and a documented paper covering the subject.

UNDERGRADUATE "G" COURSES

Additional work will be required to receive graduate credit for undergraduate G courses.

At most two of the following courses may be taken for graduate credit if cleared by the Graduate Program Coordinator.

ACCT 440G ACCOUNTING THEORY (3-0-3)(F/S). This course covers measurement theory and its implications for asset valuation and income determination. Specialized study of revenue recognition, accounting for changing prices, and basic financial analysis. Emphasizes development of analytical and written communication skills. Computer applications are also used throughout the course. PREREQ: ACCT 306.

ECON 421G QUANTITATIVE METHODS IN ECONOMICS (3-0-3)(F). The first of a two semester sequence in quantitative economic analysis, this course emphasizes the application of mathematics to the construction of economic models. Topics will include equilibrium analysis, input-output analysis, comparative static analysis, optimization techniques, and dynamic analysis. The methodological issues surrounding the use of quantitative techniques in economics are also strongly emphasized. May be taken for graduate credit. PREREQ: ECON 201, 202, MATH 160 or equivalent and BUSSTAT 207.

ECON 422G ECONOMETRICS (3-0-3)(S). The second of a two semester sequence in quantitative economic analysis. This course emphasizes the application of statistics to the construction, estimation and evaluation of econometric models. Other related topics will include: history and methodology of econometrics, forecasting, computer applications, and the use of econometrics in business and government. May be taken for graduate credit. PREREQ: MATH 160 or equivalent, BUSSTAT 207, and ECON 421.

ECON 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 and Upper Division Business standing; or PERM/INST.

ECON 480G SEMINAR IN INTERNATIONAL ECONOMICS (3-0-3)(Once a year, either Fall or Spring). 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 current class schedule for specific selection offered. Seminar may be repeated. PREREQ: ECON 201 and ECON 202 and Upper Division Business standing; or PERM/INST.

FINAN 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 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, BUSSTAT 208.

FINAN 420G MANAGEMENT OF FINANCIAL INSTITUTIONS (3-0-3)(F). The interaction between financial markets are examined, and their roles in the economy are discussed. Emphasis is placed on the changes taking place within the financial community and the

effects on financial institutions in general and commercial banking in particular. PREREQ: FINAN 303.

FINAN 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 and FINAN 420G.

FINAN 430G INTERNATIONAL FINANCE (3-0-3)(F). Build 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 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, BUSSTAT 208.

FINAN 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.

GENBUS 441G BUSINESS, GOVERNMENT AND SOCIETY (3-0-3)(S). Intensive study of and student research into the scope of government control and regulation of business. Specific major statutes and their implementing rules and regulations are researched and analyzed as well as selected federal and state regulatory agencies. May be taken for graduate credit. PREREQ: GENBUS 202 (GENBUS 302 recommended).

MKTG 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: BUSSTAT 208, MKTG 301.

INTBUS 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 US foreign/trade policy and ethical/social responsibility. PREREQ: Senior standing or PERM/INST.

SPECIALIZATION COURSES

Health Policy Emphasis

HLTHST 540	Health Information Management
MHLTHSCI 520	Medical Care Systems
ECON 440G	Health Economics
MHLTHSCI 550	Current Issues in Health Policy

Public Administration Emphasis

PUBADM 504	Public Budgeting and Financial Administration
PUBADM 521	Intergovernmental Relations
PUBADM 550	The Executive and The Administrative Process
PUBADM 580-589	Selected Topics

Master of Arts in Communication

Department of Communication
Communication Building, Room 100
Telephone 208 426-3320
FAX 208 426-1069
http://www.boisestate.edu//comm/
e-mail: mcox@boisestate.edu

Department Chair and Graduate Program Coordinator: Marvin Cox
Full Graduate Faculty: Marvin Cox, Laurel Hetherington, Peter Lutze, Suzanne McCorkle, Ed McLuskie, Janet Mills, Rick Moore, Dan Morris, Ben Parker, Mary Rohlfing, Robert Rudd, Peter Wollheim
Associate Graduate Faculty: Dawn Craner, Marty Most, Heidi Reeder

General Information

The M.A. in Communication offers students the opportunity to work with a faculty varied in their approaches, yet unified in their vision to provide a comprehensive study of human communication. The faculty has a regional and national reputation for excellence in research and teaching. The graduate program encourages mentoring relationships for students desiring to pursue individualized research interests. Course offerings reflect the strengths and interests of the faculty within three areas of concentration offered each semester: (1) **COMM 505 Selected Topics: Theory and Philosophy of Communication**, (2) **COMM 506 Selected Topics: Interpersonal Communication**, and (3) **COMM 507 Selected Topics: Organizational Communication**. The department annually publishes a two-year schedule of course offerings so that each M.A. candidate may coordinate course work which culminates in a thesis or project. Note: Consult the department's published two-year course plan for specific content regarding COMM 505, COMM 506, and COMM 507.

The M.A. degree in Communication requires a minimum 30 credits, which must include COMM 500, 501, and 598. These courses are designed to provide a basis for advanced study and research in the field. Beyond them, students design individualized programs of study to meet their specific goals from graduate courses in the department and from courses approved for graduate credit throughout the university. The M.A. experience culminates in successful completion and defense of a thesis or project approved by each student's graduate committee.

Admission Requirements

Admission will be granted to applicants who hold a Bachelor's degree from an accredited undergraduate college or university, who are admitted to the Graduate College, and who fulfill the additional requirements below. Receiving a certificate of admission to graduate classes from the Graduate College in no way guarantees admission to the M.A. in Communication.

To be considered for admission to the M.A. in Communication, an applicant must:

1. Be admitted to the Graduate College at Boise State University.
2. Have a 3.0 GPA during the last sixty hours of undergraduate course work.
3. Have completed an undergraduate social sciences research methods course and a communication theory and theorizing course.
4. Complete a Communication Department Application Form, including:
   A. An essay explaining his or her academic goals and how those goals match the M.A. program at Boise State.
   B. Indicate the name and semester of the undergraduate social science research methods course.
   C. Indicate the name and semester of the undergraduate theory and theorizing course.
5. Submit a paper demonstrating competence in scholarly writing.
6. Supply two academic letters of reference, along with the names, titles, addresses, and phone numbers of the references.

Completed applications should be received by August 1 for Fall enrollment and by November 1 for Spring enrollment. Applicants seeking a Department of Communication Graduate Teaching Assistantship or a Department of Communication Graduate Research Assistantship must submit all application materials and an *Application for Graduate Assistantship* by April 1.

Applications for Admission to the Graduate College are available from the Graduate Admissions Office. Request Department Application Packets from:

Graduate Admissions Committee
Department of Communication
Boise State University
Boise, Idaho 83725-1920

Degree Requirements

Master of Arts in Communication

Course Number and Title	Credits
COMM 500 Graduate Studies in Communication	1
COMM 501 Selected Topics in Research Methods (Alternatives may be approved by committee chair)	3
COMM 598 Graduate Seminar (May be repeated once for credit toward degree)	1-2
COMM 591 Project or COMM 593 Thesis	1-3
COMM 505 Selected Topics in Theory and Philosophy COMM 506 Selected Topics in Interpersonal Communication COMM 507 Selected Topics in Organizational Communication	18

— continued—

Master of Arts in Communication (continued)

Additional Electives (selected from within or outside the department)	6
Total	**30-33**

Course Offerings

COMM — COMMUNICATION

COMM 500 GRADUATE STUDIES IN COMMUNICATION (2-0-1). Introduces students to the field's history, the nature of graduate scholarship, and criteria for programs of study and thesis and project preparation. Offered for Pass or Fail grade only.

COMM 501 SELECTED TOPICS IN RESEARCH METHODS (Variable credit) (F/S). Specific issues or approaches to research methodology in the social sciences. Course content will vary from semester to semester. Consult current class schedule for specific topics to be offered each semester. Course may be repeated for credit.

COMM 505 SELECTED TOPICS IN COMMUNICATION THEORY AND PHILOSOPHY (Variable credit) (F/S). Course content will vary from semester to semester. Consult current class schedule for specific topics to be offered each semester. Course may be repeated for credit.

COMM 506 SELECTED TOPICS IN INTERPERSONAL COMMUNICATION (Variable credit) (F/S). Course content will vary from semester to semester. Consult current class schedule for specific topics to be offered each semester. Course may be repeated for credit.

COMM 507 SELECTED TOPICS IN ORGANIZATIONAL COMMUNICATION (Variable credit) (F/S). Course content will vary from semester to semester. Consult current class schedule for specific topics to be offered each semester. Course may be repeated for credit.

COMM 590 PRACTICUM. Upon selection of an approved project or thesis, the student will prepare a documentary and an oral report of the topic, defending it before fellow graduate students and faculty.

COMM 591 PROJECT (0-V-3). In lieu of completing a Thesis, students may create some product other than a scholarly paper which embodies original research and substantiates a specific view.

COMM 593 THESIS (0-V-3). A scholarly paper embodying results of original research which are used to substantiate a specific view.

COMM 594 WORKSHOP

COMM 595 READING AND CONFERENCE. Directed reading on selected materials in communication and discussion of those materials, as arranged and approved through the student's major advisor. No more than three credits of COMM 595 may be applied toward the M.A. in Communication.

COMM 596 DIRECTED RESEARCH. A special project undertaken as advanced tutorial study in a specialized area according to the needs and interests of the student. The course usually involves conducting research with a designated faculty member, along with writing a paper covering the subject of independent study. No more than three credits of COMM 596 may be applied toward the M.A. in Communication.

COMM 597 SPECIAL TOPICS

COMM 598 GRADUATE SEMINAR (1-0-1). A required public forum wherein graduate students and faculty present and discuss their original research and/or thesis or project proposals. May be repeated once for credit toward degree.

Master of Science in Computer Science

College of Engineering
Dean: Lynn Russell
Engineering Technology Building, Room 101
Telephone 208 426-1153
FAX 208 426-4466
http://coen.boisestate.edu

Department of Computer Science
Department Chair: John H. Griffin
Micron Engineering Center, Room 302
Telephone 208 426-1153
FAX 208 426-4466
http://coen.boisestate.edu/dep/cs.htm
e-mail: office@cs.boisestate.edu

Graduate Program Coordinator: Alex Feldman
Full Graduate Faculty: James Buffenbarger, Alex Feldman, John Griffin, Amit Jain, Otis Kenny
Associate Graduate Faculty: John Lusth, Jyh-haw Yeh

General Information

The Master of Science in Computer Science program has been designed for people who have a good background in computer science at the undergraduate level—that is, either

- a bachelor's degree in computer science, or
- a degree in a related field with significant course work in computer science.

We expect that most of the students enrolling in the program will have full-time employment commitments. Accordingly, we try to schedule courses in such a way as to meet the needs of working students.

Prospective students whose computer science background is limited may need to take several undergraduate computer science courses in preparation for the program. The Computer Science Graduate Committee will review applications and make recommendations concerning such preparation in cases where it is appropriate. Before enrolling in any graduate CS courses, students should have:

- completed a two-semester introductory computer science sequence,
- acquired a strong working knowledge of basic algorithms, data structures, and problem solving paradigms, and
- be proficient in at least one high-level programming language like Pascal, C, C++, or Java.

Most courses have additional specific prerequisites.

Students who are interested in a master's degree program that is somewhat less technical and more business-oriented might wish to consider the Master of Science in Management Information Systems, offered by the Department of Computer Information Systems and Production Management in the College of Business and Economics at BSU.

Application and Admission Requirements

Applicants must have either a baccalaureate degree in computer science, or a baccalaureate degree in a related field plus substantial course work and/or professional experience in computer science, with an undergraduate GPA of 3.0 or higher.

Admission as a graduate student at BSU has two components: admission to the Graduate College, which can occur with unclassified status and admission to a particular program. To apply for admission to the Graduate College, complete the following steps:

- Submit the Boise State University Graduate Admission Application, along with a $20 application fee, to the Graduate Admissions Office. The application form is contained in the BSU Graduate Catalog, which may be obtained by contacting the Graduate Admissions Office at (208) 426-3903 or (208) 426-4204, or by email at gradcoll@boisestate.edu. An on-line admission form is available at www.boisestate.edu/gradcoll/.
- Arrange for official transcripts from all post-secondary institutions attended to be sent directly to the Graduate Admissions Office.

To apply for admission to the graduate program in Computer Science, you will need to complete the following additional steps. Note that it is not necessary to complete the full admission process for the program before starting to take graduate computer science courses.

- Take the GRE General test and and arrange for the scores to be sent to the Graduate Admissions Office.
- Arrange for three letters of reference that address your preparation for graduate study in computer science to be sent directly to the Computer Science Graduate Committee in the Department of Computer Science.

Regular and Provisional Status. Completed applications will be reviewed by the Computer Science Graduate Committee.

- Applicants who meet the stated requirements and whose computer science background is deemed sufficient will be admitted to the program with Regular status.
- Applicants whose computer science background is deemed deficient may be granted admission with Provisional status. In this case the applicant will be required to pass specified undergraduate computer science courses in order to remove the deficiency and be granted Regular admission status.
- Unless otherwise specified, all deficiencies must be removed within two years of Provisional admission to the program. Time spent in Provisional status counts toward the limit of five years (or up to seven years if an extension is granted) allowed for completion of the degree.
- Applicants may choose to take the GRE Computer Science Subject test. While this test is optional, a good score on it might convince the Committee to grant regular status to an applicant who does not have a degree in Computer Science.

Unclassified Status. It is not necessary to complete the full admission process for the program before starting to take

graduate computer science courses. Students may be admitted to the Graduate College under the Unclassified status, pending admission to a particular degree program. Unclassified students may still take courses in the degree program (providing they meet the course prerequisites), and may count up to 9 credits earned while Unclassified towards the requirements of that program.

Degree Requirements

The degree requirements described below allow the student a fair amount of flexibility in designing a program to fit his or her needs. The only fixed requirements are three "core" courses in algorithms, programming languages and operating systems. The remainder of the course work is to be chosen by the student, in consultation with his/her advisor and the graduate computer science committee, to reflect the student's interests, ensure a coherent program, and fit within the constraints of course availability. We anticipate that many students will choose the "Project" option, which involves developing a substantial piece of software.

The Master of Science in Computer Science degree program requires a minimum of 30 credit hours, as specified in the table below. In compliance with University policy, at most 10 of those credits may be earned in G-designated undergraduate courses. Any credits applied (at Boise State or elsewhere) toward the completion of a baccalaureate degree may not be counted towards the M.S. degree. In addition, the student's advisor and the Computer Science Graduate Committee must approve the student's proposed degree plan to ensure that it meets these criteria and forms a coherent program of study. All requirements for the degree must be completed within five years of initial enrollment in the program, unless an explicit extension of time is granted by the Computer Science Graduate Committee. In no event will more than seven years be allowed for completion of the degree.

Master of Science in Computer Science

Course Number and Title	Credits
Core computer science courses COMPSCI 521 Design and Analysis of Algorithms..3 COMPSCI 531 Advanced Programming Languages...3 COMPSCI 543 Advanced Operating Systems 3	9
Additional computer science courses chosen from the following: (See comments preceding table for restrictions.) COMPSCI 410G Database Theory .....4 COMPSCI 430G Parallel and Distributed Computing..4 COMPSCI 441G Computer Architecture .....3 COMPSCI 461G Theory of Computation.....3 COMPSCI 471G Software Engineering .....3 COMPSCI 512 Advanced Topics in Databases.....3 COMPSCI 525 Network Protocols and Programming .3 COMPSCI 546 Computer Security .....3 COMPSCI 551 Advanced Programming Language Translation.....3 COMPSCI 557 Artificial Intelligence 3	15

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Master of Science in Computer Science (continued)

COMPSCI 561 Complexity Theory .....3 COMPSCI 567 Cryptology I .....3 COMPSCI 568 Cryptology II .....3 COMPSCI 573 Advanced Software Engineering .....3 COMPSCI 580-589 Selected Topics 3	
Additional course work, project or thesis—one of the following options: COMPSCI 591 Project .....6 COMPSCI 593 Thesis.....6 Additional COMPSCI courses from above list, or courses in related fields subject to approval 6	6
Written comprehensive exam Must be taken and passed during the semester in which the degree is conferred.	0
Total	**30**

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

COMPSCI — COMPUTER SCIENCE

COMPSCI 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 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.

COMPSCI 441G 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 tradeoffs involved in the design of computer system architectures with respect to the design of instruction sets. Applications of Hardware Description Language (HDL) in the design of computer systems. PREREQ: COMPSCI 117 or COMPSCI 125 and EE 332 or PERM/INST.

COMPSCI 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 471G SOFTWARE ENGINEERING (3-0-3)(F). A formal study of the software development process. Topics include: lifecycle models, requirements definition, specification, design, implementation, validation, verification, maintenance, and reuse. Students work in small teams on significant projects. PREREQ: COMPSCI 242 or PERM/INST.

COMPSCI 512 ADVANCED TOPICS IN DATABASES (3-0-3)(F). Parallel and distributed database system architectures, distributed database design, client/server database systems. Selected topics from new developments in: extended relational databases, multimedia

databases, information retrieval systems, object-oriented databases, temporal databases. PREREQ: COMPSCI 410.

COMPSCI 521 DESIGN AND ANALYSIS OF ALGORITHMS (3-0-3)(F). Design techniques such as amortized analysis, dynamic programming, and greedy algorithms. Computational geometry, graph algorithms, primality and other number-theoretic algorithms, specialized data structure techniques such as augmenting data structures, combinatorial graph reduction and functional repetition. NP completeness and approximation algorithms. PREREQ: COMPSCI 242.

COMPSCI 525 NETWORK PROTOCOLS AND PROGRAMMING (3-0-3)(S). Applications and hands-on problems from TCP/IP in the Unix environment, augmented by examples from many different kinds of protocols and technologies. OSI layers, fault tolerance, sockets, streams, parallel processes, spooling, remote execution and client-server models. PREREQ: MATH 361 and COMPSCI 353 or PERM/INST.

COMPSCI 531 ADVANCED PROGRAMMING LANGUAGES (3-0-3)(F). Advanced topics in programming-language theory, design, and implementation. Topics include: data types; binding, scope, and extent; abstraction, extensibility, and control mechanisms; formal semantics and program verification. Emphasis on alternative programming-language paradigms. PREREQ: COMPSCI 354.

COMPSCI 543 ADVANCED OPERATING SYSTEMS (3-0-3)(S). Structure and functions of operating systems, inter-process communication techniques, high-level concurrent programming, virtual memory systems, elementary queuing theory, security, distributed systems, case studies. Techniques in design and implementation of operating systems. PREREQ: COMPSCI 353 or PERM/INST.

COMPSCI 546 COMPUTER SECURITY (3-0-3)(F). Computer and network security. Public-key and private-key cryptography, authentication, digital signatures, key exchange, key management, certification authorities, and distributed trust models. File system security, Mail system security, and Web security. Intruders, Trojan Horses, and viruses. Covert channels. Projects will involve using currently available security tools. PREREQ: COMPSCI 353 or PERM/INST.

COMPSCI 551 ADVANCED PROGRAMMING LANGUAGE TRANSLATION (3-0-3)(S). Advanced topics in programming-language translation. Topics include: lexical analysis, syntax analysis, type checking, code optimization, code generation, run-time environments. Compiler-generation tools. Project provides experience with production-quality translators. Emphasis on advanced programming-language constructs. PREREQ: COMPSCI 451.

COMPSCI 557 ARTIFICIAL INTELLIGENCE (2-2-3)(F). Course will include a survey of some of the following topics, plus a project: Principles of knowledge-based search techniques; automatic deduction; knowledge representation using predicate logic, semantic networks, connectionist networks, frames, rules; applications in problem solving, expert systems, game playing, vision, natural language understanding, learning, robotics; LISP programming. PREREQ: COMPSCI 242 and COMPSCI 354.

COMPSCI 561 COMPLEXITY THEORY (3-0-3)(S). Abstract machines, relativizations, upper and lower bounds on complexity, recursive hierarchies and alternation, time-space interaction, parallel and randomized complexity classes, approximation algorithms. PREREQ: COMPSCI 461.

COMPSCI 567 CRYPTOLOGY I (4-0-4)(F). Introduction to modular arithmetic. The study of: the RSA, El-Gamal, Diffie-Hellman, and Blum-Blum-Shub public key cryptosystems, authentication and digital signatures, anonymity protocols. Protocol failures for these systems. Cross listed with MATH 307 and COMPSCI 367; credit may be received for only one of these three courses. PREREQ: MATH 170, MATH 171, and MATH 187.

COMPSCI 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 key cryptosystems, authentication and digital signatures, anonymity protocols. Cross listed with MATH 308 and COMPSCI 368; credit may be received for only one of these three courses. PREREQ: MATH 170, MATH 171, and MATH 187.

COMPSCI 573 ADVANCED SOFTWARE ENGINEERING (3-0-3)(S). A study of selected aspects of contemporary software development methodology. Topics are taken from recent research articles. These topics include: definition of user requirements, formal specification of solutions, design and implementation techniques, validation and testing, verification, maintenance, and reuse. PREREQ: COMPSCI 471 or PERM/INST.

SELECTED TOPICS. (Variable credit). In depth study of current trends and advanced topics in targeted areas of computer science.

COMPSCI 580 PARALLEL COMPUTING
COMPSCI 581 ALGORITHMS
COMPSCI 583 COMPUTER SECURITY
COMPSCI 584 NETWORKS
COMPSCI 585 OBJECT-ORIENTED DESIGN
COMPSCI 586 DATABASES
COMPSCI 587 SOFTWARE ENGINEERING

COMPSCI 591 PROJECT (Variable credit). A major project involving development of a significant system.

COMPSCI 593 THESIS (Variable credit). A thesis containing original results that is suitable for publication.

Master of Arts in Criminal Justice Administration

Department of Criminal Justice Administration
Library, Room 166
Telephone 208 426-4114
FAX 208 426-4371
http://cja.boisestate.edu
e-mail: rdehlin@boisestate.edu

Graduate Program Coordinator: Andrew Giacomazzi
Department Chair: Mary Stohr
Full Graduate Faculty: John Crank, Andrew Giacomazzi, Craig Hemmens, Kate King, Robert Marsh, Mary Stohr, Anthony Walsh

General Information

The master's degree in Criminal Justice Administration is designed to provide a foundation in applied research and theory in substantive areas of criminal justice activity, and focused scholarship on issues of importance in Idaho. Curricula are organized into two sections. The first section, called the *Foundation Series*, is a set of core classes that will provide students with the intellectual skills needed for the study of more complex material. The second section, the *Seminar Series*, promotes the development of scholarship in particular substantive areas in criminal justice. Students will also be required to write either a project or a thesis.

Admission Requirements

To be considered for regular status as a graduate student in the Department of Criminal Justice Administration, students must

meet general Graduate College requirements and the following department requirements:

1. An undergraduate degree in Criminal Justice or related social or behavioral science with at least a 3.0 average.
2. Completion of an undergraduate statistics course.
3. CJA 201 Introduction to Criminal Justice or its equivalent (required for all entering students).

Application Requirements

Application for admission to the Criminal Justice Administration graduate program may be made at any time. However, it is recommended that the prospective student make application to the Graduate Admissions Office at least one full semester prior to expected enrollment. At that time the student will pay the application fee, fill out an application form, and arrange to have transcripts for all schools of higher education previously attended, and Graduate Record Examination scores in the following areas: verbal, quantitative, and analytical, sent directly to the BSU Graduate Admissions Office.

Applicants must also send directly to the Department of Criminal Justice Administration a Statement of Purpose explaining the student's reasons for seeking admission and what they hope to achieve, and three letters of recommendation from individuals competent to judge the student's likelihood of success in graduate studies. It is recommended that the applicant schedule an interview with the Criminal Justice Graduate Program Coordinator.

The Department of Criminal Justice Administration will take no action on the application until all of the above materials have been received. Applicants who wish to enroll in the Fall semester should complete applications by May 1 (November 1 for the Spring semester).

Degree Requirements

Students are required to complete 33 hours of graduate study at the 500 level and above for the Master of Arts degree in Criminal Justice Administration. Students complete 12 credits from CJA 501, CJA 502, CJA 503, and CJA 504. Students are also required to elect at least 12 additional credit hours from among criminal justice courses in the *Seminar Series*. A master's thesis or project must be completed prior to the award of the degree. Six hours of graduate study will be awarded upon successful completion of the thesis and three for completion of the project. Elective credit must be approved and be consistent with the student's course of study. Students may pursue up to three hours of study in other approved graduate classes in or outside the department if they select the thesis option, and six if they select the project option. Consistent progress toward the degree and maintenance of a cumulative 3.0 average are required for continuation in the program. Upon completion of the thesis or project and course work, an oral examination is required of all students and will be administered by the student's thesis committee. An overall grade point average of 3.0 is required for graduation.

Master of Arts in Criminal Justice Administration

Course Number and Title	Credits
FOUNDATION SERIES The following core courses are required of all students. It is recommended that these courses be taken prior to other graduate course work: CJA 501 Crime and Criminal Justice .....3 CJA 502 Organization and Management of Criminal Justice.....3 CJA 503 Criminal Justice Research .....3 CJA 504 Statistics for Criminal Justice 3	12
SEMINAR SERIES Students are required to complete twelve credits from the following list of courses. It is recommended that core courses be completed prior to enrolling in seminar series courses. CJA 505 Law and Social Control .....3 CJA 506 Theories of Crime.....3 CJA 507 Issues in Contemporary Policing .....3 CJA 508 The Legal Process .....3 CJA 509 Juvenile Justice .....3 CJA 510 Punishment and Corrections.....3 CJA 511 Community Corrections.....3 CJA 512 Gender and Justice.....3	12
ELECTIVES Electives may be taken anywhere in the university but must be approved by the student's graduate committee and the CJA graduate coordinator. The student must demonstrate, to the committee's satisfaction, how the electives are to fit into the student's program of study and career objectives. BSU graduates with any listed course in undergraduate work which applied to the undergraduate degree may not apply that course to the graduate degree.	3-6
THESIS OR PROJECT OPTION CJA 591 Project.....3 CJA 593 Thesis.....6	3-6
Total	**33**

Course Offerings

CJA — CRIMINAL JUSTICE ADMINISTRATION

FOUNDATION SERIES

CJA 501 CRIME AND CRIMINAL JUSTICE (3-0-3)(F). This class locates the profession of criminal justice within historical, theoretical, and political perspectives. The class will focus on contemporary theoretical perspectives, including sociological, social-psychological, biosocial, cultural, genetic, linguistic, and evolutionary. The nature and scope of the discipline are defined through the discussion of the relationships among theory, policy, and practice.

CJA 502 ORGANIZATION AND MANAGEMENT OF CRIMINAL JUSTICE (3-0-3)(S). The structures, functions, and operations of criminal justice organizations are analyzed. Issues within these areas are approached with attention to their cultural, social, and political implications. The relationship between formal and informal structures and their social, political and legal environment is examined.

CJA 503 CRIMINAL JUSTICE RESEARCH (3-0-3)(F). Basic methods of quantitative and qualitative research and their application

to the field. The relationship among theory, research, and social policy. The development and interpretation of research reports.

CJA 504 STATISTICS FOR CRIMINAL JUSTICE (3-0-3)(S). Statistical analysis. Univariate and introductory multivariate techniques. Use of computerized statistical packages in the social and behavioral sciences. Statistical problem-solving using various data-sources. PREREQ: Undergraduate statistics.

SEMINAR SERIES

CJA 505 SEMINAR: LAW AND SOCIAL CONTROL (3-0-3)(F). A focus on the nature of law and legal institutions and the relationships between law and other forms of social control. Theory and research on the development of law and its implementation at various stages of the legal process is reviewed.

CJA 506 SEMINAR: THEORIES OF CRIME (3-0-3)(F). Major explanations of crime and its control. Efforts toward an integration of existing approaches are explored and consideration of the development of general theory is discussed.

CJA 507 SEMINAR: ISSUES IN CONTEMPORARY POLICING (3-0-3)(S). In-depth consideration of issues affecting policing today. Police organization, management and leadership, policy formulation, community policing and related issues are among the topics considered. Particular attention will focus on the role of police officers in a changing society.

CJA 508 SEMINAR: THE LEGAL PROCESS (3-0-3)(F). Consideration of specific aspects of criminal adjudication, including prosecution and defense, bail determination, plea-bargaining, jury decision-making, and alternative sentencing practices. Specific subject matter will vary by semester.

CJA 509 SEMINAR: JUVENILE JUSTICE (3-0-3)(F). A detailed examination of the historical development and current practices of juvenile courts and juvenile correctional institutions. Research on program evaluation is presented, with an emphasis on developments in delinquency theory as related to practice.

CJA 510 SEMINAR: PUNISHMENT AND CORRECTIONS (3-0-3)(S). An in-depth study of issues related to the philosophy and practice of punishment and corrections. Topics include correctional theory, the prison and jail environment, work and rehabilitation programs, corporal punishment, parole, overcrowding, capital punishment, and alternatives to imprisonment.

CJA 511 SEMINAR: COMMUNITY CORRECTIONS (3-0-3)(S). An assessment of contemporary trends in community corrections, with a particular focus on considerations of effectiveness. This class will focus on the types of community corrections options available, program characteristics, and implications for broader correctional policy. The contribution of rehabilitative and deterrent philosophies to corrections will provide a backdrop to a consideration of the diverse contemporary perspectives on community corrections.

CJA 512 SEMINAR: GENDER AND JUSTICE (3-0-3)(F). An exploration of the theory, research, and practice related to women's involvement in the justice system in the United States. Analysis will be directed toward the various roles and treatment of women as offenders, victims/survivors, and practitioners in the system.

ELECTIVES

CJA 520 GOVERNOR'S CLASS (3-0-3)(S). This class focuses on legislative policy in Idaho as it pertains to crime and criminal justice. This class will be a forum for the application of practical knowledge of policy theory and evaluation to crime law in Idaho. Legislative policy makers will be invited to present their views on crime and criminal justice. The process of preparing and legislating crime bills will be discussed. The Governor will be invited to provide a presentation and engage the class in discussion each semester the class is offered.

CJA 521 CRIMINAL JUSTICE ISSUES AND POLICY IN IDAHO (3-0-3)(S). Problem-solving and policy implementation in Idaho. Executives across the Criminal Justice field in Idaho will be invited to discuss issues they have confronted and strategies they have used to resolve those issues. This class will not focus on a particular field, but instead seek professionals from different components of the system.

CJA 522 JUVENILE OFFENDERS, CRIME, AND CRIMINAL JUSTICE IN IDAHO (3-0-3)(F). Examination of current processes in juvenile justice, policy, probation, and utilization of community based resources in Idaho. Emphasis will be placed on understanding issues and policy applications at the local and state level. PREREQ: CJA 509 or CJA 512.

CJA 523 RURAL CRIMINAL JUSTICE (3-0-3)(F). This class addresses the problems of criminal justice in a rural setting. This class is developed with the recognition that criminal justice in Idaho has emerged to deal with crime in the sparsely populated intermountain west. This class will provide perspective on the organization and delivery of criminal justice and the types of crime confronted by small municipal and Sheriff departments, and how those problems are being met locally.

CJA 591 PROJECT (0-V-3). In lieu of completing a thesis, students may create some scholarly or research product that embodies original research. A project involving secondary data analysis may be approved by the committee.

CJA 593 THESIS (0-V-6)(F,S,SU). Development of a research design and analysis of data relating to an issue of theoretical and empirical significance. Students are expected to display the ability to integrate the elements of the core courses and related program of study.

CJA 595 READINGS AND CONFERENCE (3-0-3)(F,S,SU). With faculty supervision, students will pursue a program of readings related

to specific issues in criminal justice, and participate in a seminar for the purpose of discussing the readings and to develop a paper based upon the materials.

CJA 596 DIRECTED RESEARCH (3-0-3)(F,S,SU). Directed research on an issue of contemporary significance in criminal justice, culminating in the development of a research paper.

Master of Science in Earth Science

Department of Geosciences
Math/Geosciences Building, Room 225
Telephone 208 426-1631
FAX 208 426-4061
e-mail: wsnyder@boisestate.edu

Graduate Program Coordinator: Walter Snyder
Department Chair: Claude Spinosa
Full Graduate Faculty: Warren Barrash, Paul R. Donaldson, Michael D. Knoll, Mitchell Lyle, James P. McNamara, Paul Michaels, John R. Pelton, Walter S. Snyder, Claude Spinosa, Craig M. White, Spencer H. Wood
Associate Graduate Faculty: C. J. Northrup, David Wilkins
Adjunct Graduate Faculty: Elton B. Bentley (Emeritus), William P. Clement, Thomas M. Clemo, Vladimir I. Davydov, Mary Donato, Virginia Gillerman, Kenneth M. Hollenbaugh (Emeritus), Verne Oberbeck, Kurt L. Othberg, Tamra Schiappa, Mark Seyfried, Edward Squires, Charles J. Waag (Emeritus), Monte D. Wilson (Emeritus), James E. Zollweg

General Information

The curriculum for the Master of Science in Earth Science stresses current developments in the earth science disciplines. In addition to subject matter knowledge emphasis is placed on the varied methods that can be used for teaching earth science. Because of the varied backgrounds of candidates, the course offerings are designed to allow flexibility in planning individual programs. Special Topics courses and seminars are frequently offered, expanding the program choices. Programs of study for each student are designed in consultation with the Earth Science Graduate Program Coordinator. A preliminary examination, oral or written, will be administered to each candidate.

Application and Admission Requirements

Application for admission may be made by graduates of accredited institutions holding a baccalaureate degree in earth science education, geology, or related discipline. Regular admission may be awarded to applicants who have earned a minimum grade point average of 3.0 during the last two years of academic work; admission will be based on grade point, GRE scores, and letters of recommendation. Continued enrollment in the program requires a minimum of 3.0 grade point (B) average and satisfactory progress toward the degree.

Additional information may be obtained from the Earth Science Graduate Program Coordinator Department of Geosciences, Boise State University, 1910 University Drive, Boise, ID 83725 or wsnyder@boisestate.edu or http://earth.boisestate.edu.

Degree Requirements

Master of Science in Education, Earth Science

Course Number and Title	Credits
Required courses: Graduate Core TEACH-ED 570 Issues in Education .....3 TEACH-ED 563 Conflicting Values in Education...1 Elective Courses (Select two from the following): TEACH-ED 561 Law for the Classroom Teacher...1 TEACH-ED 562 School Organization and Finance.....1 TEACH-ED 564 Instructional Techniques-Secondary School .....1 TEACH-ED 565 Interpreting Educational Research.....1 TEACH-ED 566 Learning Theory and Classroom Instruction .....1 TEACH-ED 568 Techniques of Classroom Instruction .....1 TEACH-ED 569 Testing and Grading.....1 TEACH-ED 573 Instructional Techniques-Elementary School .....1 TEACH-ED 578 Parents in the Educational Process .....1 TEACH-ED 597 Special Topics.....1	6
All other courses to be taken in the degree program are planned by the student and the graduate committee.	
Content area courses	14
Approved electives	7
A final comprehensive oral and/or written examination over course work and the thesis or project is required. GEOL 593 Thesis or GEOL 591 Project	6
Total	**33**

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

GEOL — GEOLOGY

GEOL 403G ENGINEERING GEOLOGY (2-3-3)(S)(Field trip required). 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. Alternate years. PREREQ: GEOL 280, PHYS 102 or PHYS 211, GEOL 323 or PERM/INST.

GEOL 412G HYDROGEOLOGY (3-0-3)(S)(Field trip required). 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 310, 314.

GEOL 431G PETROLEUM GEOLOGY (2-3-3)(F)(Field trips) (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. PREREQ: GEOL 311, GEOL 314.

GEOL 450G GEOLOGY OF NATIONAL PARKS (3-0-3)(S). 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 103 (Offered alternate years.)

GEOL 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 460G VOLCANOLOGY (2-0-2)(F)(Field trip)(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. PREREQ: GEOL 323.

GEOL 471G REGIONAL FIELD STUDY (1, 2, or 3 CR)(F/S/SU). 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 103 or PERM/INST.

GEOL 502 GREAT MYSTERIES OF THE EARTH (3-0-3)(F). The earth abounds with mysteries that are seemingly related to natural phenomena. Lost continents, UFO's, Loch Ness Monster, Bermuda Triangle, Big Foot, ancient astronauts, water witching, and other mysteries, both real and contrived as discussed in terms of evidence and interpretation in the context of natural laws and processes. Techniques of skeptical inquiry and the scientific method are applied to develop critical thinking. PREREQ: Graduate standing and PERM/INST.

GEOL 511 ADVANCED ENVIRONMENTAL GEOLOGY (3-0-3)(S). Land-use planning, techniques for investigation of surficial materials and water resources. Geologic hazards, surficial deposits and their engineering and hydrologic properties, ground and surface water, waste disposal. Term reports required, field trips required. This course can be taken for undergraduate credit by filling out necessary forms. PREREQ: GEOL 221 or PHYS 220.

GEOL 514 ADVANCED TOPICS IN WATERSHED HYDROLOGY (3-0-3)(F)(Alternate years). This course is designed to investigate hydrologic topics in greater detail than is possible in an introductory hydrology class. Specific topics will depend on the students' interests and may include runoff generation, snow hydrology, watershed management, streamflow modeling, sediment transport, and chemical tracer application. PREREQ: GEOL 415/515.

GEOL 517 WATERSHED PROCESSES (3-0-3)(F). In this course we will investigate the theoretical and empirical foundations of physical processes that govern the morphology of watersheds focusing on hillslope and fluvial processes. Our objective is to extract basic physical concepts from laws and equations that are used to describe and model various geomorphic phenomena. The course will involve a mix of lectures, student led discussion, and fieldwork. PREREQ: GEOL 313, MATH 175, PHYS 211.

GEOL 518 PHYSICAL HYDROLOGY (3-0-3)(S). Hydrology is an interdisciplinary earth science that is concerned with the movement and occurrence of water on earth. In this course we will investigate surface hydrologic phenomena including precipitation, evapotranspiration, snow and snowmelt, streamflow, rainfall-runoff relations, and watershed hydrology. We will study the processes that drive the hydrologic cycle, and apply analytical techniques to solve water resource problems that are important to the earth scientist, water manager, and engineer. PREREQ: MATH 170, GEOL 101.

GEOL 523 ADVANCED IGNEOUS PETROLOGY (3-0-3)(S) (Alternate Years). A study of igneous rocks with emphasis on their origin and the processes responsible for their diversity. Exercises will make use of the petrographic microscope and the departmental computer facilities. A field trip is required. PREREQ: GEOL 323, GEOL 324, CHEM 131.

GEOL 531 REGIONAL GEOLOGY OF NORTH AMERICA (3-0-3) (F/S). A systematic study of the geologic provinces of North America with special emphasis on geological relationships and tectonic evolution. Each province is investigated in terms of its structural and geologic history and mineral resources. PREREQ: Graduate status of PERM/INST.

GEOL 561 EARTH SCIENCE TEACHING TECHNIQUES (3-0-3 or 4-0-4)(F/S). This course is a study of the objectives, methods, and materials of instruction in Earth Sciences. Emphasis will be placed on the preparation and presentation of lectures, laboratory exercises and field trips. This course provides the student with internship experience in the laboratory and lecture classroom. PREREQ: Graduate status or PERM/INST.

GEOL 571 GEOCHEMISTRY (3-0-3)(F/S). Chemical equilibrium applied to natural water systems. Oxidation and reduction in sedimentation and ore genesis, methods of exploration geochemistry, crystallization of magmas, ore-forming solutions, isotope geochemistry. This course can be taken for undergraduate credit by filing necessary forms. Field trip required. PREREQ: GEOL 101, CHEM 133, MATH 204.

GEOL 591 PROJECT (7-3 to 0-6). A field, laboratory or library investigation. The student will select a project according to his own interest and pursue it to a logical conclusion. Weekly progress meetings are held with the instructor and a final report is required. PREREQ: Graduate status and 15 credits in Earth Science or PERM/INST.

GEOL 593 THESIS (0-3 to 0-5). The scholarly pursuit of original work on a field or laboratory project or the formulation of new and logical interpretations of existing data collected by library research. A final report suitable for presentation at a meeting of Earth Science professionals is required. PREREQ: Admission to candidacy.

GEOL 596 DIRECTED RESEARCH (0-1 to 0-4). Field, laboratory or library research project. Students may work on an individual problem or select a problem from a list provided by the instructor. Weekly progress meetings, final report. PREREQ: Physical Geology or Fundamentals of Geology and/or PERM/INST.

GEOL 598 GRADUATE SEMINAR (0-1 to 0-3). The preparation and presentation of oral and written reports on topics in earth science and/or science education. Presentation of oral reports may take the form of debate. Preparation of visual aids and geologic illustrations will be emphasized. PREREQ: Admission to candidacy or PERM/INST.

GENSCI GENERAL SCIENCE

GENSCI 501 HISTORY OF SCIENCE (3-0-3)(F/S). This is a survey of humanity's efforts to understand the natural world. "Ancient Science" is presented as an introduction to the evolution of science since the 16th century. "Modern Science" is presented with emphasis on the development of modern scientific thought. Historical illustrations of the nature of scientific research in the evolution of science are presented.

Doctor of Education in Curriculum and Instruction

College of Education
Education Building, Room 208
Telephone 208 426-1731
FAX 208 426-4006
e-mail: lscott@boisestate.edu

Graduate Programs Coordinator: Lamont Lyons

Full Graduate Faculty: Holly Anderson, James Armstrong, Robert Bahruth, Robert Barr, Jeanne Bauwens, Sherm Button, Steve Christensen, Kenneth Coll, Rich Downs, Lee Dubert, Judy French, Jay Furhiman, Joyce Garrett, Heather Hanlon, Werner Hoeger, Jack Hourcade, Bill Kozar, Patricia Kyle, Carroll Lambert, Melinda Lindsey, Lamont Lyons, Margaret Miller, Rickie Miller, Margaret Mulhern, Anne Nelson, James Nicholson, William Parrett, Linda Petlichkoff, Ron Pfeiffer, Connie Pollard, Glenn Potter, Norma Sadler, Ted Singletary, Stanley Steiner, Roger Stewart, Carolyn Thorsen, Ross Vaughn, Wenden Waite, Katherine Young

Associate Graduate Faculty: Kenneth Bell, Bobbie Birdsall, Chad Harris, Teresa Delgadillo Harrison, Philip Kelly, John McChesney, Rosemary Palmer, Lawrence Rogien, Audrey Rule, Charlotte Silva, Caile Spear, Connie Thorngren, Scott Willison

Adjunct Graduate Faculty: Mary Ensley, Brenda Freeman, Tim Furness, Susan Rueling Furness, Hugh Genoways, Nina Hawkins, Robina Holmes, Michael Jaeger, Susan Jenkins, Rich Johnson, Mary Langenfeld, Elizabeth Noonan, Thel Pearson (Emerita), Ruth Phelps, Jim Schmidt, Kevin Shea, Fred Steinbroner, Patricia Toney, Donna Vakili, Barry Watts, Lynn Weathers, Virgil Young (Emeritus)

General Information

The doctoral program in curriculum and instruction, leading to an Ed.D. degree, is designed to develop graduates who will be effective leaders in educational improvement. The course work provides students with the basis for a thorough understanding of what schools are and can be, insights into the complexities of teaching and learning, and collaborative opportunities to work towards making a measurable and positive effect upon current education programs and student learning.

Application and Admission Requirements

The doctoral program involves a cohort of students in a common set of courses and experiences. The selection of a new cohort begins with an announcement that the College is accepting applications. The announcement will include an application deadline and describe the admission process which has two components: admission to the Graduate College and acceptance into the doctoral program.

Applicants must submit the following materials to the Graduate Admissions Office:

1. Application for admission (available inside the current graduate catalog or at http://www.boisestate.edu/gradcoll);
2. Official scores from the verbal, quantitative, and analytical reports of the Graduate Record Examination. The GRE must have been taken within seven years of the application date.
3. Minimum GPA of 3.0 on a 4.0 scale for all previous graduate work; and,
4. Official transcripts for all course work indicating the completion of a Master's degree or the functional equivalent.

At the same time, applicants should submit the following materials to the College of Education Teacher Education Graduate Programs Coordinator:

1. A letter of application describing:
   - the applicant's professional experiences and their relevance to doctoral study in education;
   - career and/or personal goals and how doctoral study will support them;
2. A current resume.
3. A sample of recent scholarly and/or professional writing that includes references and is preferably written in APA style (Master's thesis or project, scholarly papers, project reports, publications, grant proposals, etc.).
4. Three letters of reference attesting to the applicant's commitment to doctoral study in education, professional effectiveness, potential for influencing education, scholarly abilities and dispositions, personal and professional integrity, and any other information that will help the selection committee make an informed decision.

The Teacher Education Graduate Programs Committee will review the materials submitted, make them available to other interested graduate faculty for analysis, and may schedule interviews with applicants. After arriving at a decision for each candidate, the committee recommends to the Graduate College Dean those that should be admitted.

Transfer Credits: Doctor of Education students may transfer up to fifteen credits taken at other institutions and apply those credits toward a graduate degree. However, the courses must be consistent with the program of study planned by you and your supervisory committee. In addition, you must have taken the courses at an accredited institution and must have received—in each course—a grade no lower than B.

Graduate Assistantships: Any student qualifying for admission may apply for one of a limited number of graduate

Doctor of Education in Curriculum and Instruction

assistantships offered each year. Awards consist of a stipend and fee waiver for fall and spring semesters, plus a six-credit fee waiver for summer school. Graduate assistantships are awarded on an annual basis and must be renewed yearly by reapplying for the position. In all cases GA's must register for a minimum of 9 credits during the regular academic year. To be considered, applications must be submitted to the Teacher Education Graduate Programs Coordinator by March 1. Typical assignments involve teaching undergraduate Teacher Education courses, supervising student teachers, serving as research assistants for graduate faculty, or a combination of activities.

Program and Dissertation Advisors: Students will have program and dissertation advisors as they progress towards their degree. However, during the first term of the doctoral program, the Summer Residency Faculty will serve as unofficial advisors answering questions about the program and assisting students in making connections with graduate/doctoral faculty who may be willing and appropriate as program advisors. It is recommended that students determine a program advisor and committee members no later than the spring semester of the first year of study. The choice of advisor will be based on the shared scholarly interests and compatible educational philosophies of student and faculty. Students may change advisors, and it is not uncommon for students to have a program advisor and then when admitted to candidacy switch to a different advisor for the dissertation.

Degree Requirements

The program has five components: Curriculum and Instruction, School Improvement, Research, Cognate, and Dissertation. Specific courses in each component are listed below. Each doctoral student will develop a program plan in consultation with his/her advisor and program committee.

Doctor of Education

Course Number and Title	Credits
Curriculum and Instruction EDUC 610 The American Culture and the Context of Schooling....3 EDUC 660 Teaching and Learning....3 EDUC 662 Curriculum....3 EDUC 663 Evaluation....3 EDUC 664 Seminar in Curriculum and Instruction....3	15
School Improvement EDUC 611 School Culture and the Problems of Change....3 EDUC 612 Strategies for School Improvement....3 EDUC 620 Field Experience: Learners At-risk....2 EDUC 621 Field Experience: School Improvement....2	10
Research EDUC 651 Intermediate Statistics in Educational Research....3 EDUC 652 Quantitative Approaches to Research....3 EDUC 653 Qualitative Approaches to Research....3 Approved Elective Research Credits....3 Note: See Doctoral Handbook for a list of suggested electives.	12
Cognate Area	17-20
Dissertation EDUC 693 Dissertation	9-12
Total	**66**

In addition to the above degree requirements, students not having background in the following areas will be expected to complete additional course work. This course work may be included in the program plan of study as long as it is graduate level and approved by the student's advisor and program committee:

- Research design (EDUC 503 or equivalent) must be completed prior to taking EDUC 651 Intermediate Statistics in Educational Research and EDUC 653 Qualitative Approaches to Research.
- Beginning statistics (PE 552 or equivalent) must be completed prior to taking EDUC 651 Intermediate Statistics in Educational Research.
- Foundations of curriculum (EDUC 536 or equivalent) must be completed prior to taking EDUC 662 Curriculum.
- Instructional theory or educational psychology (EDUC 537 or EDUC 501 or equivalents) must be completed prior to taking EDUC 660 Teaching and Learning.
- Philosophy of education or foundations of education (EDUC 505 or equivalent) must be completed prior to taking EDUC 610 The American Culture and the Context of Schooling.

Master's Credits Applied Toward the Doctor of Education: Credits earned for a master's degree, excluding credits for Thesis or Project, may be applied to the requirements of the Doctor of Education degree program at the discretion of the student's doctoral committee. Ordinarily, these credits would be within the seven-year time limit and would constitute no more than one-third of the total credits required for the doctorate.

Residency: Boise State University requires that students accepted into the doctoral program be in continuous enrollment and complete a minimum of 23 semester credits of graduate level course work during the first 15 months of the program.

Program Sequence:

Summer: Year 1 (residency)
EDUC 610 The American Culture and the Context of Schooling.....3
EDUC 660 Teaching and Learning 3

Fall: Year 1 (residency)
EDUC 653 Qualitative Approaches to Research.....3
EDUC 662 Curriculum.....3

Spring: Year 1 (residency)
EDUC 620 Field Experience: Learners At-risk.....2
EDUC 651 Intermediate Statistics in Educational Research 3

Summer: Year 2 (residency)
EDUC 611 School Culture and the Problems of Change 3
EDUC 612 Strategies for School Renewal 3

Fall: Year 2
EDUC 621 Field Experience: School Improvement 2
EDUC 652 Quantitative Approaches to Research.....3

Spring: Year 2
EDUC 663 Evaluation 3
EDUC 664 Seminar in Curriculum and Instruction.....3

Cognate.....17-20
The cognate supports a school curricular area or has other professional relevance. It is developed by the student in consultation with the student's advisor and program committee.

EDUC 693 Dissertation.....9-12

Course Offerings

EDUC — EDUCATION

EDUC 610 THE AMERICAN CULTURE AND THE CONTEXT OF SCHOOLING (3-0-3)(SU). Students will explore the roles of schools in American society, including cross-cultural analyses; identify political forces influencing school policy-making in local, state, national and international arenas; investigate the economics of school improvement proposals; and consider the historical contexts of contemporary improvement efforts. They will give particular attention to the effects on American culture and the school of changing demographics, the challenges of an increasingly diverse society, and the impact of technology and the ongoing information revolution. PREREQ: Admission to the doctoral program and EDUC 505, EDUC 506 or equivalents; or permission of instructor and EDUC 505, EDUC 506 or equivalents.

EDUC 611 SCHOOL CULTURE AND THE PROBLEMS OF CHANGE (3-0-3)(SU). Students will explore the cultures and organizational dynamics of schools, and obstacles to change in an increasingly diverse society. Case studies of change efforts in the past will be examined for their lessons for contemporary improvement efforts. Research and theory about systemic change in schools and other organizations will be explored as a basis for developing working theories and leadership skills necessary to guide school improvement efforts. PREREQ: Admission to doctoral program and EDUC 610; or permission of instructor and EDUC 610.

EDUC 612 STRATEGIES FOR SCHOOL IMPROVEMENT (3-0-3)(SU). Students will explore contemporary strategies being tried or proposed to bring about ongoing improvement in the schools. There will be an emphasis on participatory approaches to school change, collaboration and partnership building, the role of technology, attention to cultural diversity, and conflict resolution strategies. Students will work on projects through which they will transform their emerging theories of change into plans for making change happen in their schools. Special emphasis will be placed on preparation for school-based decision making. PREREQ or COREQ: Admission to doctoral program and EDUC 611; or permission of instructor and EDUC 611.

EDUC 620 FIELD EXPERIENCE: LEARNERS AT-RISK (0-4-2)(F/S/SU). This field experience enables participants to bridge the current knowledge base on effective practice and program design with the needs of learners at-risk, their families, schools, and community agencies. Through in-depth field study, students will gain better understanding of learners at-risk and programs designed to meet their needs. PREREQ: EDUC 653.

EDUC 621 FIELD EXPERIENCE: SCHOOL IMPROVEMENT (0-4-2)(F/S). Students will participate in schools and other educational settings that are involved in exemplary educational improvement projects; curriculum development efforts; and professional development activities, including the planning, implementation, and evaluation of such programs. PREREQ: EDUC 620.

EDUC 651 INTERMEDIATE STATISTICS IN EDUCATIONAL RESEARCH (3-0-3)(F/S). Students will study parametric and nonparametric statistical procedures commonly used in educational research, including analysis of variance, analysis of covariance, chi square, and multiple regression. Students will develop competence in data analysis and interpretation procedures via computer-based statistical packages, including SAS and SPSS. PREREQ: Admission to doctoral program and Introduction to Statistics; or permission of instructor and Introduction to Statistics.

EDUC 652 QUANTITATIVE APPROACHES TO RESEARCH (3-0-3)(F/S). Students will examine procedures involved in the selection of appropriate research designs and data analysis techniques in quantitative research, and study related design and measurement issues. Students will integrate the use of technologies in the process of quantitative research, and learn the content requirements and structure of a dissertation proposal. PREREQ: Admission to the doctoral program and EDUC 651; or permission of instructor, EDUC 651 and EDUC 503 or equivalent.

EDUC 653 QUALITATIVE APPROACHES TO RESEARCH (3-0-3)(F/S). Students will examine the uses and values of qualitative methods in educational research and analyze various approaches to qualitative research, including case studies, biographical, phenomenological, ethnographic, interactional, and critical analyses. They will evaluate ways of gathering and analyzing data, and will apply their knowledge in a research study that investigates some facet of the teaching-learning process. PREREQ: Admission to the doctoral program or permission of instructor and EDUC 503 or equivalent.

EDUC 660 TEACHING AND LEARNING (3-0-3)(SU). Students will examine historic and contemporary explanations of human learning and relate them to past and current models of teaching. Students will devote particular attention to teaching and learning in culturally diverse student populations and the impact of technology on education environments. PREREQ: Admission to the doctoral program and EDUC 501 or EDUC 537 or equivalents; or permission of instructor and EDUC 501 or EDUC 537 or equivalents.

EDUC 662 CURRICULUM (3-0-3)(F/S). Students will focus on major theories, research bases, and significant societal factors in school curricula. The course will include historical and philosophical foundations of curricular development; analysis of factors and issues influencing curricular determinations, including cultural influences and technological contributions; and consideration of likely future curricular evolution. PREREQ: Admission to the doctoral program and EDUC 536 or equivalents; or permission of instructor and EDUC 536 or equivalent.

EDUC 663 EVALUATION (3-0-3)(S or SU). Students will examine questions evolving from making judgments about such educational issues as school effectiveness, individual performances, and other educational endeavors. They will explore ethical issues in assessment and evaluation, and analyze social, cultural, and political influences affecting assessment and evaluation procedures. PREREQ: Admission to doctoral program, EDUC 651 and EDUC 653; or permission of instructor, EDUC 651 and EDUC 653.

EDUC 664 SEMINAR IN CURRICULUM AND INSTRUCTION (3-0-3)(F/S). In this culminating seminar, students will synthesize their learning from prior course work and field experiences and examine educational issues relevant to their respective professional careers. PREREQ: EDUC 660 and EDUC 662.

EDUC 693 DISSERTATION (0-V-12)(F/S/SU). Students will complete an independent and original research project on an important educational issue; collect and interpret the findings in a cogent, professional and scholarly-written document; successfully defend the project to the dissertation committee; and disseminate those findings in a professionally appropriate manner. PREREQ: Successful completion of "Comprehensive Evaluation" and Admission to Candidacy.

Master of Arts or Science in Education

Department of Elementary Education and Specialized Studies
Department of Foundations, Technology and Secondary Education
Graduate Studies in Education Office
Education Building, Room 208
Telephone 208 426-1731
FAX 208 426-4006
http://education.boisestate.edu/grad/
e-mail: lscott@boisestate.edu

Office of Teacher Education Advising
Education Building, Room 206
Telephone 208 426-1964
FAX 208 426-4006
e-mail: dsmith2@boisestate.edu
e-mail: education.boisestate.edu/teao

Graduate Program Coordinators:
C&I Elementary Teachers, Rickie Miller
C&I Secondary Teachers, Lamont Lyons
C&S Bilingual/ESL, Jay Fuhriman
C&I Secondary Certification, Lamont Lyons
Early Childhood, Judy French
Reading, Stan Steiner
Special Education, Melinda Lindsey
Educational Technology, Carolyn Thorsen

Elementary Education Department Chair: Wenden Waite
Full Graduate Faculty: Robert Bahruth, Jeanne Bauwens, Judy French, Jay Fuhriman, Jack Hourcade, Patricia Kyle, Carroll Lambert, Melinda Lindsey, Rickie Miller, Margaret Mulhern, Norma Sadler, Ted Singletary, Stanley Steiner, Roger Stewart, Wenden Waite, Katherine Young
Associate Graduate Faculty: Rosemary Palmer, Audrey Rule, Charlotte Silva
Adjunct Graduate Faculty: Robina Holmes, Elizabeth Noonan, Lynne Weathers

Secondary Education Department Chair:
Steve Christensen
Full Graduate Faculty: Holly Anderson, James Armstrong, Robert Barr, Steve Christensen, Lee Ann Dubert, Joyce Garrett, Philip Kelly, Lamont Lyons, William Parrett, Constance Pollard, Carolyn Thorsen
Associate Graduate Faculty: Teresa Delgadillo Harrison, Lawrence Rogien, Scott Willison
Adjunct Graduate Faculty: Hugh Genoways, Nina Hawkins, Michael Jaeger, Susan Jenkins, Rich Johnson, Mary Langenfeld, Mary Ann Martini, Thel Pearson (Emerita), Ruth Phelps, Fred Steinbroner, Patricia Toney, Donna Vakili, Virgil Young (Emeritus)

General Information

The College of Education offers a Master's degree in education, with concentration in one of the following areas: Curriculum and Instruction, Educational Technology, Early Childhood Education, Mathematics, Reading, and Special Education. The Graduate Programs Coordinator oversees the administration of these programs and coordinates their operation across the Department of Elementary Education and Specialized Studies, the Department of Foundations, Technology, and Secondary Education, and the related subject area departments.

Under the Curriculum and Instruction concentration, students may pursue secondary education certification or a sequence in the bilingual (Spanish) or ESL areas.

Application and Admission Requirements

Prospective students may apply for admission at any time. However, the following application materials must be received by the Graduate Admissions Office by July 1 for the fall semester, November 15 for the spring semester, or April 1 for the summer session:

1. Application for admission (http://www.boisestate.edu/gradcoll).
2. $20.00 application fee.
3. Official transcripts of all undergraduate and graduate course work sent directly to the BSU Graduate Admissions Office.
4. Minimum GPA of 3.00 (on a 4.0 scale) for the last two years of undergraduate study, or an overall GPA of 3.00.

Admission will be granted to a qualified applicant who holds a Bachelor's degree from an accredited college or university and has some professional relationship to instruction. The candidate must meet the standards set by the College of Education and participating departments as well as the specific regulations of the particular program for which he or she applies. If deemed appropriate, provisional status may be granted to an applicant not meeting the listed requirements.

Programs and Advisors

The name of a faculty member who will serve as temporary advisor will be indicated in the letter of acceptance to the applicant. Candidates should contact this faculty member as soon as possible to plan a program of study and complete the Program Development Form. Credits taken prior to such planning are subject to the review and approval of the advisor and the Program Coordinator.

A maximum of nine semester graduate credits may be accepted from other accredited graduate schools upon approval of the advisor and coordinator. A maximum of six semester credits of pass-fail credits may be applied toward the degree.

Those students selecting the Mathematics emphasis will follow the procedures set forth by the Department of Mathematics and Computer Science.

Graduate Assistantships

Any student qualifying for admission may apply for one of a limited number of graduate assistantships offered each year. Awards may consist of a stipend, a fee waiver or a combination of both. Applications must be received at the Graduate Studies in Education Office by March 1 of each year. Typical assignments include research assistants, teaching assistants, or assignments related to specific areas. Graduate assistantships are awarded for one year and may be renewed for one additional year.

In-service Teacher Education Credit Restriction

Effective Fall, 1998, Idaho public school teachers or other professional employees of an Idaho school district may take approved in-service teacher education courses at a reduced fee rate; however, the credit awarded cannot be applied toward a degree program.

Degree Requirements

Graduate Core: The Graduate Core provides a set of integrated experiences designed to focus participants' attention on critical issues in education, to foster serious reflection through extensive reading, writing, and conversation about those issues, and to promote collaboration with colleagues who have diverse experiences and varied areas of expertise. The Graduate Core is required of all candidates for a Master of Arts in Education, but not those seeking a Master of Science in Education, Educational Technology emphasis. Graduate Core is offered once during the academic year and during summer session.

GRADUATE CORE

Course Number and Title	Credits
EDUC 506 Graduate Core Issues in Education	4
Elective Core Courses: Students must take an approved two credit elective. These will be listed in the class schedule as "EDUC 597 Special Topics: Core" followed by the specific title of the course. Following are examples of titles to be offered: Parents in Education School Law and Ethics Students in the Middle School Contemporary Education Policy for Teachers Positive Classroom Management	2
Total	**6**
Students should apply for Admission to Candidacy after completion of 18 credits in the program. Completed forms with an advisor's copy of transcript are submitted to the Graduate Studies in Education Office, E-208.	

Option Requirements

The Teacher Education Graduate Program provides two options for those selecting one of the following emphases: Curriculum and Instruction, Early Childhood, Reading, or Special

Master of Arts or Science in Education

Education: Option I, Thesis/Project and Option II, Comprehensive Examination.

OPTION I (Thesis or Project)

Course Number and Title	Credits
Graduate Core	6
EDUC 503 Fundamentals of Educational Research	3
EDUC 591 Project or EDUC 593 Thesis	6
Approved electives and specific requirements	18
TOTAL	**33**

A thesis or project, as mutually agreed upon by the candidate and the committee, is required. Selection of a thesis implies a research emphasis with a thesis format. Selection of a project implies a project related to instruction, curriculum, or some other aspect of an educational program.

OPTION II (Comprehensive Examination)

Course Number and Title	Credits
Graduate Core	6
EDUC 505 Philosophy of Education .....3 or EDUC 503 Fundamentals of Educational Research.....3 NOTE: Students selecting Option II are required to take a research class, which may be EDUC 597 Special Topics: Core - Interpreting Educational Research (2 credits), or EDUC 503 Fundamentals of Educational Research (3 credits).	3
Approved electives and specific requirements	24
TOTAL	**33**

A comprehensive written examination is required at the end of the course work. This examination is to be tailored by each candidate's committee specifically for that candidate following guidelines established by the department. After the candidate has completed the written portion of the examination, the committee will meet with the candidate for an oral review prior to final approval or rejection of the written examination.

Master of Arts in Education, Curriculum and Instruction

Course Number and Title	Credits
Graduate Core	6
EDUC 536 Curriculum Planning and Implementation	3
EDUC 537 Instructional Theory	3

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Master of Arts in Education, Curriculum and Instruction (continued)

Content area courses Content courses and electives should be chosen to support an area normally taught in the schools. These include bilingual/ESL, any secondary certification content area, math, science, reading, technology, etc. Each student should determine his/her individual program with their assigned advisor.	9
Elective options (choose Option I or II) I. Thesis-Project: EDUC 503 Fundamentals of Educational Research .....3 EDUC 591 Project or EDUC 593 Thesis.....6 Approved electives .....3 OR II. Comprehensive Examination: EDUC 505 Philosophy of Education .....3 or EDUC 503 Fundamentals of Educational Research .....3 NOTE: Students electing Option II must take a research class, which may be EDUC 597 Special Topics: Core - Interpreting Educational Research (2 credits), or EDUC 503 Fundamentals of Educational Research (3 credits). Approved electives 9	12 OR 12
TOTAL	**33**

Master of Arts in Education, Curriculum and Instruction Option: Bilingual Education/ESL (Spanish-English)

Course Number and Title	Credits
Curriculum and Instruction Emphasis Requirements: Graduate Core	6
Other Requirements: EDUC 505 Philosophy of Education **or** EDUC 503 Fundamentals of Educational Research .....3 EDUC 536 Curriculum Planning and Implementation .....3 EDUC 537 Instructional Theory.....3	9
Bilingual Education/ESL Option Requirements (Spanish-English): EDUC 510 The Culturally Diverse Learner .....3 EDUC 524 Language Acquisition and Development .....3 EDUC 511 Techniques of Grant Application Writing.....3 EDUC 512 Second Language Methods and Materials .....3 EDUC 513 Theoretical Fundamentals of Bilingual Education/ESL.....3 EDUC 590 Practicum: Clinical Experience.....1-2	16-17

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Master of Arts in Education, Curriculum and Instruction Option: Bilingual Education/ESL (continued)	
Bilingual Strand Requirement: EDUC 514 Language and Literacy.....3 **or** ESL Strand Requirement: EDUC 515 Applied Linguistics: Comparative Language Study 3	3
TOTAL	**34-35**

Note: This master's program is for both elementary and secondary teachers P-12. Participants select either the Bilingual Education or the ESL strand. The Bilingual Education strand uses only the Spanish and English languages and the Hispanic and Anglo cultures. It requires a student to be bilingual in Spanish and English prior to entering the program. The ESL strand uses primarily the Spanish language for examples but is applicable to all non-English languages. It does not require a student to be bilingual. Completion of the Bilingual Education or ESL strand does not qualify the candidate for state certification. However, these courses may be used toward certification renewal or endorsement.

Master of Arts in Education, Curriculum and Instruction Option: Secondary Certification

Application and Admission Requirements

Students preparing to receive initial secondary teacher certification and simultaneously complete the requirements for a master's degree must apply and be accepted for admission to both programs. Admission to secondary teacher certification is required before a student may enroll in any course on the graduate level leading toward certification. Applications for secondary teacher certification are made through the Teacher Education Advising Office in the Education Building, Room 206.

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 certification shall be determined and implemented by the Secondary Teacher Education faculty and administered by the Teacher Education Advising Office.

Admission Schedules

Prospective students may apply for admission at any time. However, the Teacher Education Advising Office must receive the application materials prior to beginning block one by February 1 for the fall semester, or October 1 for the spring semester. Students beginning courses in the summer should contact the Teacher Education Advising Office. You may contact the office for details at 208 426-1964 or teadv@boisestate.edu.

Limitations to Admissions

Because of the large number of students seeking admission to secondary teacher education, not all applicants may 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.

Professional Standards

To be admitted to secondary teacher certification, 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 dispositions necessary for success as a teacher. A further description and discussion of these traits may be found in the *Graduate Secondary Education Student Handbook* (www.education.boisestate.edu/teaol) and in the *Code of Ethics of the Idaho Teaching Profession*, on the web at *www.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.

Professional Documentation

In addition to completing the Admission to Secondary Teacher Certification form, the applicant must provide evidence of suitability to work in a school setting. This evidence may include a portfolio that includes several of the following:

1. Written evidence of having worked 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. Three letters of recommendation from professionals, one of which concerns student's work with young people.

Academic Standards

The following academic standards are required for admission to secondary teacher certification:

1. A minimum overall GPA of 3.0 (on a 4.0 scale) for undergraduate work and a minimum GPA of 2.75 in both the content major and minor fields.
2. Be within six hours of completion of required major and minor area content courses.
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 Test (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.

Faculty Interview

After students have met all the criteria for admission described above, they will be interviewed by faculty members before final approval for admission to secondary teacher certification.

Certification Requirements and Endorsements for Secondary Teacher Certification

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 July 1, 1996* (*www.sde.state.id.us/*), 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 16 weeks 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.

Secondary Student Teaching

An Idaho Standard Secondary Certificate allows the holder to teach in grades 6 through 12.

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 15 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 202/203, and application forms may be obtained from that office.

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 teacher certification include the following:

1. Recommendation of the faculty advisor or the chair of the student's department.
2. Major field, minor field (when appropriate), and required education courses completed.
3. Approval by the Teacher Education Professional Standards Committee.
4. Successful completion of at least one microteaching experience in EDUC 538 Learning and Instruction.

Special Information on Student Teaching in Secondary Teacher Certification

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 at the university before being placed in student teaching.
2. 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.
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, including conviction in a court of law or 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 202/203) or the Dean of the College of Education (Education Building, Room 705).
4. Prior to student teaching, students may be required by school districts to be fingerprinted.
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 the Office of Teacher Education Advising, E-206, for current Idaho requirements.

The major certification endorsements (secondary option degree programs) are described in the undergraduate catalog under each department. A listing of 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

Note: Minor certification endorsements are listed in the undergraduate catalog. Check with the Office of Teacher Education Advising, E-206, for the most current information regarding requirements for minor certification endorsements recognized by the State of Idaho.

Master of Arts in Education, Curriculum and Instruction Option: Secondary Certification

Course Number and Title	Credits
Graduate Core	6
TEACH-ED 408G Integrating Technology into Classroom Curricula ....3 EDUC 505 Philosophy of Education ....3 EDUC 536 Curriculum Planning and Implementation 3	9
Content Area A minimum of 9 graduate credits to be selected in the area of the endorsement.	9
Block I (Block courses are corequisites.) EDUC 538 Learning and Instruction ....4 EDUC 550 Exceptional Needs ....3 EDUC 560 Teaching Experience I 1	8
Block II (Block courses are corequisites.) EDUC 544 Content Literacy ....3 # varies Content Methods ....3 EDUC 561 Professional Year-Teaching Experience II 2	8
Block III EDUC 562 Professional Year-Elementary Teaching Experience III(A/M/PE) ....5 EDUC 563 Professional Year-Jr. High Teaching Experience IV (A/M/PE) ....5 EDUC 564 Professional Year-Sr. High Teaching Experience IV (A/M/PE) ....5 EDUC 565 Professional Year-Jr. High Teaching Experience III ....10 EDUC 566 Professional Year-Sr. High Teaching Experience III 10	10
Culminating Activity Option I: Project/Thesis EDUC 503 Fundamentals of Educational Research...3 EDUC 591 Project or EDUC 593 Thesis ....6 Option II: Written Comprehensive Exam ....0 NOTE: Students selecting Option II must take a research class, which may be EDUC 597 Special Topics: Core - Interpreting Educational Research (2 credits) or EDUC 503 Fundamentals of Educational Research (3 credits).	0-9
TOTAL	**50-59**

Master of Arts in Education, Early Childhood

Course Number and Title	Credits
Graduate Core	6
EDUC 521 Early Childhood: Reading	3
Two of the following three courses: EDUC 522 Early Childhood: Advanced Child Development ....3 EDUC 523 Early Childhood: Environments and Programs ....3 EDUC 524 Early Childhood: Language Acquisition and Development....3	6
EDUC 590 Practicum: Early Childhood	2-4
Choose Option I or II: I. Thesis/Project: EDUC 503 Fundamentals of Educational Research ....3 EDUC 591 Project or EDUC 593 Thesis ....6 Approved electives ....5-7 II. Comprehensive Written Examination: EDUC 505 Philosophy of Education ....3 or EDUC 503 Fundamentals of Educational Research ....3 NOTE: Students selecting Option II must take a research class, which may be EDUC 597 Special Topics: Core - Interpreting Educational Research (2 credits) or EDUC 503 Fundamentals of Educational Research (3 credits). Approved electives 11-13	14-16
TOTAL	**33**

Master of Arts in Education, Reading

Course Number and Title	Credits
Graduate Core	6
EDUC 540 Comprehensive Literacy	3
EDUC 541 Assessment and Instruction: Reading Difficulties	3
EDUC 542 Best Practices in Literacy Improvement	3
EDUC 543 Seminar in Reading Education	3
Choose Option I or II: I. Thesis/Project: EDUC 503 Fundamentals of Educational Research ....3 EDUC 591 Project or EDUC 593 Thesis ....6 Reading electives ....3 Approved electives 3	15

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Master of Arts in Education, Reading (continued)

II. Comprehensive Written Examination: EDUC 505 Philosophy of Education.....3 or EDUC 503 Fundamentals of Educational Research.....3 NOTE: Students selecting Option II must take a research class, which may be EDUC 597 Special Topics: Core - Interpreting Educational Research (2 credits) or EDUC 503 Fundamentals of Educational Research (3 credits). Reading electives.....6 Approved electives.....6	
TOTAL	**33**

NOTE: Completion of the required courses in the Master of Arts in Education, Reading emphasis may not qualify the candidate for a reading endorsement for state certification. With the assistance of his or her advisor, the candidate can select appropriate electives to meet endorsement requirements.

Master of Arts in Education, Special Education Students with Disabilities

Course Number and Title	Credits
Graduate Core	6
EDUC 551 Counseling/Consulting Skills for Educators	3
EDUC 552 Advanced Theory of Instructional Design in Special Education	3
EDUC 554 Emotionally Disturbed Child in the Classroom	3
EDUC 555 Issues and Trends in Special Education	3
EDUC 590 Practicum: Special Education	3
Choose Option I or II: I. Thesis/Project option: EDUC 503 Fundamentals of Educational Research.....3 EDUC 591 Project or EDUC 593 Thesis.....6 Approved electives.....3 II. Comprehensive Written Examination: EDUC 505 Philosophy of Education.....3 or EDUC 503 Fundamentals of Educational Research.....3 NOTE: Students selecting Option II must take a research class, which may be EDUC 597 Special Topics: Core - Interpreting Educational Research (2 credits) or EDUC 503 Fundamentals of Educational Research (3 credits). Approved electives.....9	12

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Master of Arts in Education, Special Education Students with Disabilities (continued)

Suggested electives: TEACH-ED 450G Behavior Intervention Techniques.....3 EDUC 541 Assessment and Instruction: Reading Difficulties.....3 EDUC 542 Best Practices in Literacy Improvement.....3 EDUC 500 Individual Tests and Measurements.....3 EDUC 596 Directed Research: Special Education.....3	
TOTAL	**33**

NOTE: Completion of the required courses in the Master of Arts in Education, Special Education emphasis may not qualify the candidate for state certification. The candidate should seek the help of his or her advisor to determine certification requirements.

Master of Arts in Education, Special Education Severe Disabilities

Course Number and Title	Credits
Graduate Core	6
EDUC 551 Counseling/Consulting Skills for Educators	3
EDUC 553 Seminar on Students with Disabilities	3
EDUC 554 Emotionally Disturbed Child in the Classroom	3
EDUC 544 Issues and Trends in Special Education	3
EDUC 590 Practicum: Special Education	3
Choose Option I or II: I. Thesis/Project option: EDUC 503 Fundamentals of Educational Research.....3 EDUC 591 Project or EDUC 593 Thesis.....6 Approved electives.....3 II. Comprehensive Written Examination: EDUC 505 Philosophy of Education.....3 or EDUC 503 Fundamentals of Educational Research.....3 NOTE: Students selecting Option II must take a research class, which may be EDUC 597 Special Topics: Core - Interpreting Educational Research (1 credit) or EDUC 503 Fundamentals of Educational Research (3 credits).	12
Approved electives.....9 Suggested electives: TEACH-ED 423G Teaching Students with Moderate and Severe Disabilities.....3 TEACH-ED 450G Behavior Intervention Techniques.....3	
TOTAL	**33**

NOTE: Completion of the required courses in the Master of Arts in Education, Special Education emphasis may not qualify the candidate for state certification. The candidate should seek the help of his or her advisor to determine endorsement requirements.

Master of Science in Education, Educational Technology	
Course Number and Title	**Credits**
The Master of Science in Education with an emphasis in Educational Technology prepares students to work in educational settings requiring expertise in improving performance, designing instruction, and using a variety of educational delivery systems. This program enables professionals to select and use a variety of technologies to produce long-term benefits for individuals and educational organizations. The course work in this program includes a wide range of theoretical and practical experiences. It culminates in the development of a project for a specific educational organization or a thesis investigating an important and timely issue.	
Requirements: TEACH-ED 408G Integrating Technology into Classroom Curricula .....3 EDUC 571 Introduction to Education Technology .....3 EDUC 572 Instructional Design for Educators .....3 EDUC 573 The Internet for Educators.....3 EDUC 574 Instructional Courseware Design .....3 EDUC 503 Fundamentals of Educational Research .....3 EDUC 537 Instructional Theory.....3 EDUC 591 Project or EDUC 593 Thesis 6	27
Suggested Electives: Students should take at least 6 credits of elective course work. SOC 510 Conflict and Change in Socio-Cultural Systems .....3 EDUC 536 Curriculum Planning and Implementation .....3 EDUC 583 Selected Topics: Educational Technology .....3 EDUC 501 Advanced Educational Psychology.....3 EDUC 506 Issues in Education .....4 EDUC 590 Practicum.....6	6
Total	**33**

Second Master's Degree

A student who has earned a Master's Degree in Education from Boise State University may earn a second degree in another area of emphasis.

Guidelines for the Award of a Second Master's Degree:

1. A candidate must meet all program requirements prescribed by the second master's curriculum.
2. Program requirements for the second degree that have already been met in the program for the first degree awarded may be counted toward the second degree at the discretion of the student's graduate committee.
3. A minimum of 21 credits of new course work is required for the second degree.
4. The seven-year time limit applies to all courses to be counted toward the second degree.

Planned Fifth Year

Purpose: Continuing education is a vital element in maintaining professional competence among teachers. Yet not all teachers desire the structure and demands imposed by a master's program. The purpose of the Planned Fifth Year is to enable and encourage teachers to further their professional growth and meet career goals through a planned and intellectually rigorous program of study. The goals of the program are largely determined by the candidate. The candidate may choose

1) to broaden or deepen knowledge and skills related to current teaching assignment, or

2) to seek an additional endorsement or advanced certification.

Admission Requirements for Planned Fifth Year

1. Be a certified teacher.
2. Meet the admission standards of graduate study including a 3.00 overall GPA or 3.00 in the last two years of study.

Program Requirements

Planned Fifth Year	
Course Number and Title	**Credits**
All students will complete 30 credits including: EDUC 537 Instructional Theory	3
Graduate Core or two of the following courses: EDUC 503 Fundamentals of Educational Research...3 EDUC 505 Philosophy of Education .....3 EDUC 536 Curriculum Planning and Implementation 3	6
Content Courses	9
Electives	12
TOTAL	**30**
A. A minimum of 20 credits must be earned after admission. B. Transfer credits are limited to nine (9). C. A maximum of 10 credits may be undergraduate work. D. A maximum of 10 credits may be pass/fail. E. A maximum of 6 credits of 'C' grades will be accepted. F. Overall GPA for the program must be 3.00. G. The program must be planned with an advisor and must be completed within seven years of the first credits applied to the program.	
Note: This is not a degree or certification program. If, as a result of course work taken in the program, the candidate becomes eligible for a different certificate or endorsement, it is the candidate's responsibility to make application to the State Department of Education.	

Teacher Certification

Students admitted to graduate programs in the College of Education who are also seeking secondary certification as a teacher must be admitted to the Teacher Education program in the Department of Educational Foundations, Technology, and Secondary Education or, if seeking elementary certification, be admitted to the Teacher Education program in the Department of Elementary Education and Specialized Studies. Students also must fulfill any competency requirements related to certification. Students seeking elementary school certification may arrange with their advisors to take some graduate level courses which also apply toward the Master's degree. However, this is done on an individual basis.

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

EDUC — EDUCATION

EDUC 501 ADVANCED EDUCATIONAL PSYCHOLOGY (3-0-3) (Demand). A study of contemporary issues involving both theoretical and methodological considerations in the history and systems of educational psychology. Special emphasis will be given to group behavior in terms of principles relevant to educational objectives. PREREQ: P 101 and TEACH-ED 225.

EDUC 502 EDUCATION IN EMERGING NATIONS (3-0-3)(F). The course provides an analysis of the relationship between national goals and the educational system in the twentieth century. Contemporary systems will be studied in light of three major factors: (1) religious factors; (2) natural factors such as race, language and environment; (3) secular factors such as Humanism, Socialism and Nationalism.

EDUC 503 FUNDAMENTALS OF EDUCATIONAL RESEARCH (3-0-3)(F/S/SU). This course will introduce students to the elements of experimental and non-experimental research designs. Instruction in using research resources and interpreting statistics will be given and students will analyze current research related to education. Students will learn how to develop a research proposal and will write a scholarly research paper.

EDUC 504 SUPERVISION OF INSTRUCTIONAL PERSONNEL (3-0-3)(S). A course designed to improve the supervision skills of elementary/secondary cooperating teachers and other supervisory personnel. Emphasis will be placed on a variety of observation and evaluation strategies designed to improve instruction.

EDUC 505 PHILOSOPHY OF EDUCATION (3-0-3)(S,SU). Students will analyze and evaluate past and contemporary philosophies and the values derived from them as they apply to education. A formal paper will be required.

EDUC 506 ISSUES IN EDUCATION (4-0-4)(F/S/SU). Historical and contemporary social, economic, and organizational issues influencing education. Includes readings, presentations by members of the educational community, and discussions.

EDUC 510 THE CULTURALLY DIVERSE LEARNER (3-0-3) (Demand). Students will study educational changes and adjustments resulting from the interactions of a variety of cultural backgrounds in schools. Specialized techniques, methods, processes, and programs designed to meet the unique learning needs of linguistically and culturally diverse learners will be presented.

EDUC 511 TECHNIQUES OF GRANT APPLICATION WRITING (3-0-3)(Demand). This is a course on techniques of writing grants to public and/or private agencies. Students will practice writing grants. A review of the authorizing legislation and regulations governing grants will also be presented. Students will learn how to implement and close out grants.

EDUC 512 SECOND LANGUAGE METHODS AND MATERIALS (3-0-3)(Demand). A critical study of various methodologies in second language teaching is presented. Students learn to evaluate commercial and teacher-made materials and to integrate language teaching with subject matter areas.

EDUC 513 THEORETICAL FOUNDATIONS OF BILINGUAL EDUCATION/ESL (3-0-3)(Demand). This is a course on the study and analysis of bilingual education and English as a Second Language programs. Students will study the most current research on student assessment, program implementation and adaptation of these programs to community needs.

EDUC 514 LANGUAGE AND LITERACY (3-0-3)(Demand). This course considers the connection between written and oral language development, first and second language reading and writing processes, and the techniques and processes of teaching literacy in a second language. Instruction is in English and in Spanish.

EDUC 515 TEACH-ED 579 APPLIED LINGUISTICS: COMPARATIVE LANGUAGE STUDY (3-0-3)(Demand). This course provides an in-depth study of sociolinguistic aspects of the Spanish and English languages. Differences and similarities in Spanish, English and other selected languages and dialects are studied in order to assist limited English proficient students acquire a second language more efficiently.

EDUC 521 EARLY CHILDHOOD: READINGS (3-0-3)(S). Past and current research in early childhood education will be reviewed and synthesized in a seminar format. Students will determine a specific research area to study in depth.

EDUC 522 EARLY CHILDHOOD: ADVANCED CHILD DEVELOPMENT (3-0-3)(F). The student will examine in depth the physical, social-emotional, cognitive-language, and creative development of children, birth to age eight.

EDUC 523 EARLY CHILDHOOD: ENVIRONMENTS AND PROGRAMS (3-0-3)(S). The student will examine critical elements in the development and administration of effective early childhood programs including evaluating children, setting up the environment, developing and implementing curriculum, and teaching methods.

EDUC 524 EARLY CHILDHOOD: LANGUAGE ACQUISITION AND DEVELOPMENT (3-0-3)(F/Demand). The student will examine various theories and stages of language development, and will study approaches to facilitate language development in children of English and non-English speaking backgrounds.

EDUC 530 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING SOCIAL SCIENCE (3-0-3)(F). A comprehensive study of the practices and principles in social science education, including objectives, social problems, unit development, work-study skills, organization of the program materials and media, and research findings basic to social studies will be developed.

EDUC 531 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCHOOL MATHEMATICS (3-0-3)(S). Emphasis on creative methods and strategies for teaching elementary school mathematics. Also includes a review of current research, curriculum trends and exploration of experimentation with unique materials for teaching mathematics.

EDUC 532 ADVANCED PRINCIPLES AND PRACTICES IN TEACHING LANGUAGE ARTS AND LINGUISTICS (3-0-3)(F). Emphasis will be given to the role of language arts and linguistics in the school curriculum, stressing modern approaches to language development, semantics, phonetics, phonics, and orthography.

EDUC 533 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCIENCE (3-0-3)(F). Current practices

and principles in modern elementary science concepts are developed. Emphasis is placed on the selection and organization of content and experimental activities.

EDUC 534 TEACHING SECONDARY SOCIAL STUDIES (3-0-3) (F/S). This course will prepare 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. Students will examine professional literature on best teaching practices. PREREQ: Admission to Graduate Secondary Teacher Certification, EDUC 538, EDUC 550, EDUC 560. COREQ: EDUC 544 and EDUC 561.

EDUC 535 SECONDARY SCHOOL SCIENCE METHODS (3-0-3) (F/S). Students will examine local, state and national science curricula and standards. Students will use a variety of materials and methods, including appropriate instructional technologies, to develop science lessons which help all learners to develop scientific inquiry skills, an understanding of the nature of science, and critical understanding of selected science concepts and procedures. Students will also analyze current science educational journal articles and research. PREREQ: Admission into Graduate Teacher Certification, EDUC 538, EDUC 550, and EDUC 560. COREQ: EDUC 544 and EDUC 561.

EDUC 536 CURRICULUM PLANNING AND IMPLEMENTATION (3-0-3)(F/S/SU). This is a general course for practicing teachers intended to give them a foundation in curriculum theory and practice. They will develop an understanding of how curriculum is developed, organized, implemented and evaluated. Current issues and trends in curriculum with some historical perspective will be explored.

EDUC 537 INSTRUCTIONAL THEORY (3-0-3)(F/S/SU). This course includes investigations of research and theory about educational contexts, motivation, learning and development as they relate to models of instruction. Students will develop skills in selecting appropriate instructional models to achieve specific purposes in a variety of educational settings.

EDUC 538 LEARNING AND INSTRUCTION (4-0-4)(F/S). Provides students with an overview of those principles of psychology especially relevant to secondary school instruction. Topics include cognition, motivation, assessment theory and practice, and applications of learning theory. Students will learn to plan and execute diverse and appropriate pedagogical methods to establish a positive learning environment, to assess student learning, and to analyze the effectiveness of instruction. Students will examine professional literature on best teaching practices for increased student learning. PREREQ: Admission to Graduate Secondary Teacher Certification. COREQ: EDUC 550 and EDUC 560.

EDUC 539 TEACHING GIFTED AND TALENTED STUDENTS (3-0-3)(S). Teachers and others working with the instructional needs of gifted and talented students will develop skills in the techniques of meeting the educational goals of these exceptional individuals. Methods and materials for this approach will be evaluated as to application and assessment.

EDUC 540 COMPREHENSIVE LITERACY (3-0-3)(F/S/SU). Research-based best reading practices focused on language structure and literacy instruction, comprehension research, material selection, and assessment and intervention strategies. Contemporary and historical perspectives will be examined.

EDUC 541 ASSESSMENT AND INSTRUCTION: READING DIFFICULTIES K-12 (3-0-3)(F/SU). Diagnostic, standardized, and informal (performance-based) assessment procedures will be studied, evaluated, learned, and practiced. Instructional strategies for elementary and secondary students with reading difficulties will be learned and linked to assessment procedures. PREREQ: Admission to graduate program.

EDUC 542 BEST PRACTICES IN LITERACY IMPROVEMENT (2-1-3)(S/SU). Diagnostic instructional and assessment procedures will be used with 1-3 elementary or secondary students in the BSU Tutoring Program in Reading. Each participant prepares a professional quality client report. One meeting per week with the client outside of class time is required. PREREQ: EDUC 541 or the equivalent.

EDUC 543 SEMINAR IN READING EDUCATION (3-0-3)(S/SU). Covers current issues and trends in literacy education and leadership techniques. PREREQ: EDUC 540 or PERM/INST.

EDUC 544 CONTENT LITERACY IN SECONDARY SCHOOL (3-0-3)(F,S). Emphasis on using 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. Students will examine professional literature on best teaching practices. PREREQ: Admission to Graduate Secondary Teacher Certification, EDUC 538, EDUC 550, and EDUC 560. COREQ: EDUC 561 and the content methods course for the declared major.

EDUC 545 TECHNIQUES FOR CREATIVE WRITING IN ELEMENTARY SCHOOLS (3-0-3)(S). Methods and techniques for encouraging creative writing in the elementary school.

EDUC 546 TEACH-ED 519 ADVANCED STUDY OF CHILDREN'S LITERATURE (3-0-3)(F)(Odd years). The course provides an in-depth literary analysis of children's literature from preschool to early adolescence, including multicultural literature. The course promotes development of children's literature activities for classroom, libraries, and other settings.

EDUC 547 ADVANCED YOUNG ADULT LITERATURE (3-0-3)(S). Offers an update in diverse young adult literature, as well as research, critical analysis and instructional strategies for a variety of settings. Intended for teachers, librarians, media generalists, and others working with young adults.

EDUC 550 TEACHING SECONDARY STUDENTS WITH EXCEPTIONAL NEEDS (3-0-3)(F,S). Addresses what educators should know about students with exceptional needs at the secondary level, including those with disabilities and with special gifts and talents. Topics will include characteristics of students from common areas of exceptionality; relevant litigation and legislation; assessment techniques, instructional strategies; and collaboration. PREREQ: Admission to Graduate Secondary Teacher Certification. COREQ: EDUC 538 and EDUC 560.

EDUC 551 COUNSELING/CONSULTING SKILLS FOR EDUCATORS (3-0-3)(F). This course will cover the development of counseling and consulting skills for educators to work with parents and other professionals. Instruction will focus on developing skills to work with students who experience various social and emotional concerns relating to learning. Major areas to be addressed will include theories and approaches to counseling and consulting, communication skills, and intervention programs. PREREQ: GRAD or PERM/INST.

EDUC 552 ADVANCED THEORY OF INSTRUCTIONAL DESIGN FOR SPECIAL EDUCATORS (3-0-3)(F). The course is designed to teach students advanced design components to effectively instruct children and adults with special education needs. The course will include the theoretical and programmatic considerations of instructional design. The course may be useful to general education teachers who wish to gain some knowledge in dealing with students with special needs. PREREQ: TEACH-ED 431 or PERM/INST.

EDUC 553 IN-SERVICE TEACHER EDUCATION WORKSHOP (0-1-1 to 0-3-3). Available at special fee rate (approximately one-third of part-time education fee). Student must be an Idaho public school teacher or professional employee of an Idaho school district. Credit awarded is for professional development only and cannot be applied towards a degree program. Pass/Fail.

EDUC 554 STUDENTS WITH EMOTIONAL AND/OR BEHAVIORAL DISABILITIES (3-0-3)(F/SU). This course is designed to assist school personnel in understanding the educational and psychological needs of students with severe behavioral problems. PREREQ: PERM/INST.

EDUC 555 ISSUES & TRENDS IN SPECIAL EDUCATION (3-0-3)(S)(Even years). This course will investigate the current issues and trends in the field of special education. It will be organized around six topical areas: 1) identification, 2) assessment, 3) eligibility, 4) service delivery, 5) intervention approaches, and 6) instructional strategies. Discussion will be library research based and will focus on all areas of exceptionality in both elementary and secondary school settings. PREREQ: GRAD or PERM/INST.

EDUC 556 SEMINAR IN SEVERE DISABILITIES (3-0-3)(S)(Odd years). This course is designed to facilitate student knowledge and skills relevant to providing services to individuals with severe disabilities. Special emphasis is placed on current trends and issues in the field. PREREQ: TEACH-ED 423 or PERM/INST.

EDUC 560 TEACHING EXPERIENCE I (0-3-1)(F,S). Students will work with a master teacher for a minimum of 50 hours. They will observe the teaching/learning process in action, which they have studied on campus, and demonstrate teaching competence in a P-12 school setting. PREREQ: Admission to Secondary Teacher Certification. COREQ: EDUC 538 and EDUC 550.

EDUC 561 PROFESSIONAL YEAR – TEACHING EXPERIENCE II (0-6-2)(F/S). Students will work with master teachers for a minimum of 100 hours. They will observe the teaching/learning process (which they have studied on campus) in action, and demonstrate competence in a P-12 school setting. PREREQ: Admission to Secondary Teacher Certification. COREQ: EDUC 544 and the content methods course for the students' declared major.

EDUC 562 PROFESSIONAL YEAR – ELEMENTARY TEACHING EXPERIENCE III DUAL OPTION (1-40-5)(F,S). This course is reserved for students who are seeking an endorsement to teach in specific disciplines in grades 1-8. Students are given assignments in elementary schools where they observe and teach for one-half semester under the supervision of a master teacher and a university supervisor. (Pass/Fail.) PREREQ: Admission to Professional Year, required course work in specialty area, and approval for placement in an appropriate classroom setting. COREQ: EDUC 563 or EDUC 564.

EDUC 563 PROFESSIONAL YEAR – JR HIGH TEACHING EXPERIENCE IV DUAL OPTION (1-40-5)(F,S). Supervised student teaching in a junior high school. The student will be placed with a cooperating teacher for one-half semester (full-time) in his/her major/minor field under the supervision of university faculty. Available for Art, Music, and Physical Education majors only. Seminars are required. (Pass/Fail.) PREREQ: Admission to Professional Year. COREQ: EDUC 562 or EDUC 564.

EDUC 564 PROFESSIONAL YEAR – SR HIGH TEACHING EXPERIENCE IV DUAL OPTION (1-40-5)(F,S). Supervised student teaching in a senior high school. The student will be placed with a cooperating teacher for one-half semester (full-time) in his/her major/minor field under the supervision of university faculty.. Available for Art, Music, and Physical Education majors only. Seminars are required. (Pass/Fail.) PREREQ: Admission to Professional Year. COREQ: EDUC 562 or EDUC 563.

EDUC 565 PROFESSIONAL YEAR – JR HIGH TEACHING EXPERIENCE III (1-40-10)(F,S). Supervised student teaching in a junior high school. The student will be placed with a cooperating teacher for one semester (full-time) in his/her major/minor field under the supervision of university faculty. Seminars are required. (Pass/Fail.) Not available for Art, Music, or Physical Education Majors. PREREQ: Admission to Professional Year.

EDUC 566 PROFESSIONAL YEAR – SR HIGH TEACHING EXPERIENCE III (1-40-10)(F,S). Supervised student teaching in a senior high school. The student will be placed with a cooperating teacher for one semester (full-time) in his/her major/minor field under the supervision of university faculty. Seminars are required. (Pass/Fail.) Not available for Art, Music, or Physical Education Majors. PREREQ: Admission to Professional Year.

EDUC 571 INTRODUCTION TO EDUCATIONAL TECHNOLOGY (3-0-3)(F/S). This course provides students with an overview of the field of Educational Technology with an emphasis on K-12 education. Students will identify helpful resources and standards, discuss ethical legal, and human issues involving computing, and find and summarize major research finding and trends related to the use of technology in education.

EDUC 572 INSTRUCTIONAL DESIGN FOR EDUCATORS (3-0-3)(F/S). This course provides students with design principles based on both behaviorist and cognitive approaches. The course will help students understand how these principles apply to the content (conceptual and process) that they teach relative to the technologies (computers, video audio, and test) that are available in public schools.

EDUC 573 THE INTERNET FOR EDUCATORS (3-0-3)(S/SU). Students will access and use the Internet and its tools for remote information access and retrieval and multimedia/hypermedia publishing. Students will also identify and learn appropriate models for using the Internet in the classroom as well as collaborate in on-line work groups and build bodies of knowledge around topics based on Internet data sources.

EDUC 574 INSTRUCTIONAL COURSEWARE DESIGN (3-0-3)(S). Students will design instruction with the assistance of a microcomputer and link the instruction with video technology. Students will investigate several authoring languages to facilitate the development and delivery of instruction. PREREQ: IP 537.

EDUC 580-582 SELECTED TOPICS.

EDUC 583 SELECTED TOPICS: TECHNOLOGY

EDUC 584-589 SELECTED TOPICS

EDUC 590 PRACTICUM (Variable).

EDUC 591 PROJECT (0-V-6).

EDUC 593 THESIS (0-V-6).

EDUC 597 SPECIAL TOPICS.

TEACH-ED TEACHER EDUCATION

TEACH-ED 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: EDUC 203, teaching experience, or PERM/INST.

TEACH-ED 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 450G BEHAVIOR INTERVENTION TECHNIQUES (3-0-3)(F). This course provides an introduction to the theoretical principles of behavior and the development of practical applied behavior analysis procedures with children from the preschool years through adolescence. As part of the course students will develop,

implement and evaluate a field-based applied behavior analysis project. PREREQ: Admission to Teacher Education.

TEACH-ED 463G INFANT EDUCATION (3-0-3)(SU). The physical, social, emotional and intellectual development of the infant-age birth to three- will be examined in relation to kinds of environment and learning experiences that will stimulate and ensure optimum development. PREREQ: Admission to Teacher Education.

TEACH-ED 549 COUNSELING TECHNIQUES FOR CHEMICAL DEPENDENCY (3-0-3)(F/S). A study of counseling techniques and practices used in dealing with people of all ages who are chemically dependent. Special attention will be paid to the impact of chemical dependency in family members and counseling strategies for adolescents. This course may be taken for either HLTHST or EDUC but not both.

Master of Science in Education, Mathematics

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Graduate Program Coordinator: Sharon Walen
Department Chair: Alan Hausrath
Full Graduate Faculty: Robert Anderson, Kathleen Ayers, Tomek Bartoszynski, Phillip Eastman, Alex Feldman, Alan Hausrath, Randall Holmes, Robert Hughes, Margaret Kinzel, Mary Jarratt Smith, Joanna Kania-Bartoszynska, Otis Kenny, Charles Kerr, Daniel Lamet, Giles Maloof, Marion Scheepers, Robert Sulanke, Sharon Walen, Frederick Ward
Associate Graduate Faculty: Stephen Brill, Douglas Bullock

General Information

This degree requires 30 hours of course work, including the Graduate Core in Education, a mathematics sequence and seminar, and electives in mathematics and other areas chosen in consultation with a committee. The student must complete all requirements in item 1 below, plus those in one of the three options 2A, 2B, or 2C.

Degree Requirements

Master of Science in Education, Mathematics

Course Number and Title	Credits
1. Common Requirements: A. Graduate Core .....6 B. Mathematics Sequence.....6 MATH 501-502 Real Analysis or MATH 541-542 Abstract Algebra C. MATH 598 Seminar in Mathematics.....3 D. Mathematics Electives.....6 E. A written examination over mathematics course work	21
2. One of the following three options: A. Examination Option: 1. One additional graduate mathematics course, exclusive of MATH 503, 504, or 561 .....3 2. Free electives.....6 3. An oral examination over all course work. B. Project Option: 1. MATH 591 Mathematics Project .....3 2. Free electives.....9 C. Thesis Option: 1. MATH 593 Mathematics Thesis.....3 2. Free Electives 9	9 12 12
3. Additional Information: A. Credit in Workshop (594 or 599) is limited to a total of 3 credits to be applied in partial fulfillment of the emphasis in Mathematics. B. Some students may be required to remove deficiencies before admission to candidacy. Students with strong undergraduate mathematics backgrounds may apply to challenge, waive, or replace parts of the emphasis requirements. C. Students considering this program should consult with the Chair of the Mathematics Department. Enrollment in graduate courses has been such that completion dates for this program cannot be guaranteed.	
TOTAL	**30-33**

Course Offerings

MATH — MATHEMATICS

MATH 456G LINEAR PROGRAMMING (4-0-4)(S). Simplex algorithm, two-phase method, simplex algorithm for problems with bounded variables, duality theory, postoptimality analysis, network simplex method, and the transportation and assignment problems. PREREQ: MATH 301.

MATH 490G MATHEMATICS IN SECONDARY SCHOOLS (3-0-3)(F). Objective, content, and methods of secondary school mathematics programs. PREREQ: Six hours of mathematics completed at or above the 300-level.

MATH 501-502 REAL ANALYSIS I, II (3-0-3). The real number system. Set theory and metric spaces. Sequences and series. Continuity of real functions. Differentiation. The Riemann-Stieltjes

integral. Sequences and series of functions. PREREQ: MATH 314 or PERM/INST.

MATH 503 THE TEACHING OF ALGEBRA (3-0-3). Contemporary approaches to teaching secondary school algebra; treatment of selected topics in modern algebra; methods and materials; research relevant to the teaching of algebra. PREREQ: MATH 305.

MATH 504 THE TEACHING OF GEOMETRY (3-0-3). Contemporary approaches to teaching secondary school geometry; treatment of selected topics in geometry; methods and materials; research relevant to the teaching of geometry. PREREQ: MATH 311.

MATH 505 FOUNDATIONS OF MATHEMATICS (3-0-3). The axiomatic method and its role in modern mathematics. The role of the theories of sets and groups in the development of mathematics. Modern philosophies of mathematics. PREREQ: MATH 305 or PERM/INST.

MATH 511 GENERAL TOPOLOGY (3-0-3). Set separation axioms, topologies, connectedness, compactness, generalized convergence, continuity, product spaces. PREREQ: MATH 401 or MATH 501 or PERM/INST.

MATH 541-542 ABSTRACT ALGEBRA I, II (3-0-3). Mappings, the integers, groups, sub-groups, morphisms, rings, integral domains, polynomial rings, fields, field extensions. PREREQ: MATH 305 or PERM/INST.

MATH 547 HISTORY OF MATHEMATICS (3-0-3). The course is designed for mathematics teachers in the secondary school. The course consists of two parts: the first part traces the development of algebra, geometry, analytic geometry and calculus to the 19th century; the second part gives a brief introduction to, and history of, some of the developments in mathematics during the last century. PREREQ: PERM/INST.

MATH 561 MATHEMATICS FOR OPERATIONS RESEARCH (4-0-4)(F/S). The mathematics techniques used to solve problems involving several variables. Linear systems, matrices, linear programming with the simplex method, differential and integral calculus with emphasis on applications in management decision situations. PREREQ: PERM/INST.

MATH 564 MATHEMATICAL MODELING (3-0-3)(SU). Introduction to mathematical modeling through case studies. Deterministic and probabilistic models; optimization. Examples will be drawn from the physical, biological, and social sciences. A modeling project will be required. PREREQ: MATH 361 and COMPSCI 122 or PERM/INST.

MATH 571 MATHEMATICS CURRICULUM (7-12)(3-0-3). The history of the 7-12 mathematics curriculum; content, special problems, and trends in mathematics programs; organization of the curriculum. Study of reports and recommendations; curriculum development projects. PREREQ: At least one year's experience teaching in secondary school mathematics.

MATH 591 PROJECT (May be taken for 3 to 6 credits). A project may include, but is not limited to, a library research paper, educational research or written curriculum with teaching materials. PREREQ: The student must be admitted to candidacy.

MATH 593 THESIS (May be taken for 3 to 6 credits). Original mathematical research or a new interpretation or novel exposition of existing mathematics. Course is arranged with supervising faculty member. PREREQ: Admission to candidacy.

MATH 598 SEMINAR IN MATHEMATICS (3-0-3). The content will vary within a format of student presentation and discussion of relatively advanced mathematical topics selected from texts or mathematical journals. This will not be a seminar in mathematics education.

MATHED MATHEMATICS FOR INSTRUCTION

MATHED courses are designed to provide extra experience in mathematics for practicing teachers. They may be used to meet course requirements for master's degrees in education. They are not available for undergraduate credit and not intended for students with very strong mathematical backgrounds. Courses labeled between MATHED 500 and MATHED 519 emphasize mathematical content and are suitable for teachers at all levels. Those courses labeled between MATHED 520 and MATHED 544 are designed particularly for secondary teachers; those labeled between MATHED 545 and MATHED 569 are directed to middle school teachers, and those labeled between MATHED 570 and MATHED 579 are for elementary school teachers, but in each case teachers practicing at any level may enroll.

MATHED 501 SURVEY OF PURE MATHEMATICS FOR TEACHERS (2-0-2)(SUM). The nature of mathematical knowledge, its history, meaning, methodology, and use. Generally topics will be selected from material in set theory, logic, number theory, algebra, geometry, or graph theory. PREREQ: Possession of a teaching certificate.

MATHED 502 SURVEY OF APPLIED MATHEMATICS FOR TEACHERS (2-0-2)(SUM). The nature of contemporary applied mathematics and its use in decision making in modern society. The emphasis will be on conceptual understanding and appreciation of the vast variety of problems which can be solved by mathematics. Generally topics will be selected from material in management science, statistics, social choice, or geometry of size and shape. PREREQ: Possession of a teaching certificate.

MATHED 556 NUMBER THEORY FOR TEACHERS (1-0-1) (SUM). An exploration of divisibility, primes, linear Diophantine equations, representation of number theoretical concepts using concrete materials, conjectures, and recent results. PREREQ: One year experience teaching.

MATHED 564 MATHEMATICAL MODELING FOR TEACHERS (1-0-1)(SUM). The modeling process, its relation to the scientific method and problem solving, laboratory activities and examples appropriate to the middle school. PREREQ: One year experience teaching.

Master of Science in Engineering

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Department of Electrical and Computer Engineering
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Department of Mechanical Engineering
Department Chair: John Gardner
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Associate Graduate Faculty: Stephen Affleck, Elisa Barney Smith, Siddhartha Duttagupta, James Ferguson, Joe Guarino, Robert Hamilton, Joseph Hartman, Mandar Khanal, William Knowlton, Amy Moll, Stephen Parke

General Information

The College of Engineering offers the Master of Science in Engineering (MSE) degree in Civil, Computer, Electrical, and Mechanical Engineering. The MSE program provides students with the background and skills required for career enhancement, admission into a Ph.D. program, or careers in research and development.

Admission and Application Requirements

Prospective students may apply for admission at any time. Admission to these MSE programs is a two step process. First, students must be admitted to the Graduate College (see General Admission policies for the Graduate College). Once a student is admitted to the Graduate College all admission materials are submitted to the appropriate Departmental Graduate Studies Committee (i.e. Civil, Electrical and Computer, Mechanical). The Committee then evaluates these materials and determines the student's admission status.

Students may be admitted to Regular or Provisional status. To be admitted under the Regular status a student must have: (i) an undergraduate degree from an ABET-accredited program in the respective major, or closely related field, (ii) undergraduate GPA of at least 3.0 or higher, (iii) minimum GRE results in the 50th percentile (verbal, quantitative, and analytical portions). PROVISIONAL STATUS as a graduate student may be granted to those otherwise promising applicants who do not meet the above requirements for REGULAR STATUS. No applicant will be admitted unless a member of the BSU engineering faculty has agreed to serve as that applicant's thesis/project advisor.

The Departmental Graduate Studies Committee will also assign each admitted graduate student an advisor (BSU full-time faculty). This committee will, in cooperation with the student's advisor and the student's supervisory committee, assess progress in thesis/project research, progress and performance in course work and performance as a graduate assistant (where applicable). Continuing enrollment in the program requires a minimum 3.0 GPA and satisfactory progress toward the degree.

Each student will form a thesis/project supervisory committee, which will consist of at least three members; the student's thesis/project advisor (BSU full-time faculty), and two other faculty members from BSU or other appropriate academic institutions. The thesis/project supervisory committee will determine if academic deficiencies exist that must be remedied, help design thesis/project research, help choose appropriate graduate course work, evaluate the thesis/project, and conduct the final defense.

Degree Requirements

The Master of Science in Engineering (MSE) degree program is structured to provide majors in Civil, Computer, Electrical and Mechanical Engineering plus minors in a variety of supporting areas. The program will include both thesis and non-thesis options as outlined in the following.

Master of Science in Engineering – Thesis Option: The thesis option is for those students interested in research and development engineering careers and who may want to pursue a Ph.D. in the future. It requires a minimum of 30 credits of study beyond the baccalaureate degree. The 30 credits are comprised of at least a minimum of 24 credits of course work and 6 credits of thesis work. The thesis must be an original contribution by the student to the state of knowledge in the area of his/her major.

Master of Science in Engineering – Project Option: The project option is for those interested in becoming practicing professional engineers or engineering project managers. It requires a minimum of 30 credits beyond the baccalaureate degree. The 30 credits are comprised of a minimum 24 to 27 credits of course work and a project of 3 to 6 credits. The project will be an application of established engineering methods and practices in the solution of a comprehensive problem in the area of his/her major.

To assure breadth as well as depth, each student's plan of study must include at least fifteen credits in the major area and at least six credits in an interdisciplinary (minor) area. In

addition, no more than nine transfer credits (per the Graduate College's academic policy) and no more than nine 300G or 400G-level credits may be included in the plan of study. With the recommendation of the student's supervisory committee and approval of the Dean of the Graduate College, graduate credits earned from the University of Idaho and Idaho State University through the inter-institutional cooperative program will be counted as residence credits.

Students will be expected to produce a written thesis/project proposal and give an oral presentation of that proposal during their first year. Completion of the program requires a GPA of 3.0 or better for all course work applied to the 30 credit-hour minimum. An oral defense of the completed thesis/project is also required. All requirements for the MSE degree must be completed within a period of seven years.

Master of Science in Engineering
Civil Engineering

Course Number and Title	Credits
The MSE degree requires a minimum of 30 credit hours. Up to nine hours of undergraduate "G" may be included in meeting that requirement.	
Elective Courses CE 390G Codes & Official Documents .....3 CE 452G Structural Steel Design.....3 CE 460G Geotechnical Engineering Design .....3 CE 520 Advanced Environmental Engineering Processes & Design .....4 CE 522 Hazardous Waste Engineering .....3 CE 524 Water & Wastewater Treatment Plant Design.....3 CE 526 Environmental Process Chemistry .....3 CE 528 Water Resources Engineering .....3 CE 540 Pavement Design & Evaluation.....3 CE 551 Structural Dynamics.....3 CE 554 Timber Design .....3 CE 562 Foundation Design .....3 CE 564 Seepage, Drainage, Flow Nets & Embankments .....3 CE 570 Highway & Traffic Systems Design .....3 CE 572 Transportation Planning.....3 CE 575 Advanced Traffic Management .....3 CE 596 Directed Research 3	15-21
Minor Two or three courses selected from Business & Economics, Communication, Mathematics, Computer Science, Physical Sciences, Engineering Materials or another Engineering discipline, and approved by the student's advisory committee.	6-9
Project or Thesis Requirement CE 591 Project.....3-6 CE 593 Thesis 6	3-6
TOTAL	**30**

Master of Science in Engineering
Computer Engineering

Course Number and Title	Credits
The MSE degree requires a minimum of 30 credit hours. Up to nine hours of undergraduate "G" may be included in meeting that requirement.	
Elective Courses: EE 510 IC Physical Design.....3 EE 512 VLSI Design .....3 EE 530 Digital Hardware Design .....3 EE 532 Computer Architecture.....3 EE 533 Embedded and Portable Computing Systems.....3 EE 554 Digital Signal Processing .....3 EE 556 Pattern Recognition .....3 EE 557 Digital Image Processing .....3 EE 562 Industrial Controllers .....3 EE 564 Robotics and Automated Systems .....3 COMPSCI 471G Software Engineering .....3 COMPSCI 430G Parallel and Distributed Computing .....3 COMPSCI 461G Theory of Computation.....3 COMPSCI 521 Design and Analysis of Algorithms .....3 COMPSCI 525 Network Protocols and Programming.....3 COMPSCI 543 Advanced Operating Systems .....3 COMPE 530 Advanced Digital Hardware Design....3 COMPE 531 Digital Systems Testing and Testable Design .....3 COMPE Advanced Computer Architecture .....3 COMPE 533 ASIC Chip Design .....3 COMPE 535 Systems for Multimedia Processing.....3 COMPE 564 Large Scale Distributed Systems Design.....3 COMPE 596 Directed Research.....3	15-21
Minor Two or three courses selected from Business & Economics, Communication, Mathematics, Computer Science, Physical Sciences, Engineering Materials or another Engineering discipline, and approved by the student's advisory committee.	6-9
Project or Thesis COMPE 591 Project .....3-6 COMPE 593 Thesis.....6	3-6
TOTAL	**30**

Master of Science in Engineering
Electrical Engineering

Course Number and Title	Credits
The MSE degree requires a minimum of 30 credit hours. Up to nine hours of undergraduate "G" may be included in meeting that requirement.	
Elective Courses EE 510 IC Physical Design.....3 EE 511 CMOS Analog IC Design 3	15-21

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Master of Science in Engineering, Electrical Engineering (continued)	
EE 512 VLSI Design .....3 EE 513 RF IC Design .....3 EE 515 CMOS Mixed-Signal IC Design .....3 EE 520 Advanced Device Design and Simulation ...3 EE 521 Advanced Device Characterization Lab .....1 EE 522 Microwave Semiconductor Devices .....3 EE 530 Digital Hardware Design .....3 EE 532 Computer Architecture .....3 EE 533 Embedded & Portable Computing Systems .....3 EE 534 Computer Networks .....3 EE 540 Advanced IC Process Design .....3 EE 541 Advanced IC Processing Lab .....1 EE 542 Photolithography .....3 EE 543 Photolithography Lab .....1 EE 546 Frontiers of IC Processing .....3 EE 552 Wireless Communication .....3 EE 554 Digital Signal Processing .....3 EE 556 Pattern Recognition .....3 EE 557 Digital Image Processing .....3 EE 560 Linear Systems .....3 EE 564 Robotics and Automated Systems .....3 EE 566 Multivariable Control Systems .....3 EE 570 Electric Machines and Drives .....3 EE 572 Power Electronics .....3 EE 574 Power System Control .....3 EE 596 Directed Research 3	
Minor Two or three courses selected from Business & Economics, Communication, Mathematics, Computer Science, Physical Sciences, Engineering Materials or another Engineering discipline, and approved by the student's advisory committee.	6-9
Project or Thesis EE 591 Project .....3-6 EE 593 Thesis 6	3-6
TOTAL	**30**

Master of Science in Engineering Mechanical Engineering	
Course Number and Title	**Credits**
The MSE degree requires a minimum of 30 credit hours. Up to nine hours of undergraduate "G" may be included in meeting that requirement.	
Elective Courses ME 402G Applied Numerical Methods .....3 ME 420G Thermodynamics II .....3 ME 472G Vibrations .....3 ME 474G Controls .....3 ME 486G Human Factors Design .....3 ME 522 Advanced Thermodynamics .....3 ME 530 Fluid Dynamics .....3 ME 532 Acoustics .....3 ME 533 Dynamic Meteorology 3	15-21

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Master of Science in Engineering, Mechanical Engineering (continued)	
ME 536 Computational Fluid Dynamics .....3 ME 538 Convective Heat Transfer .....3 ME 550 Advanced Mechanics of Materials .....3 ME 554 Composites .....3 ME 560 Computer Aided Design .....3 ME 570 Finite Element Methods .....3 ME 574 Advanced Vibrations .....3 ME 576 Advanced Dynamics .....3 ME 582 Optimal Design .....3 ME 584 Robust Design .....3 ME 586 Advanced Engineering Design .....3 ME 588 Design for Manufacture & Assembly .....3 ME 596 Directed Research 3	
Minor Two or three courses selected from Business & Economics, Communication, Mathematics, Computer Science, Physical Sciences, Engineering Materials or another Engineering discipline, and approved by the student's advisory committee.	6-9
Project of Thesis ME 591 Project .....3-6 ME 593 Thesis 6	3-6
TOTAL	**30**

Representative Minor Courses	
Minor Area	**Courses**
Business & Economics	MBA 517 Accounting for Managers MBA 523 Production & Systems Management MBA 525 Corporate Finance MBA 529 Marketing Management
Communication	COMM 506 Selected Topics in Interpersonal Communication COMM 507 Selected Topics in Organizational Communication
Mathematics & Computer Science	MATH 414G Advanced Calculus MATH 436G Partial Differential Equations MATH 456G Linear Programming MATH 465G Numerical Analysis COMPSCI 439G Parallel and Distributed Computing COMPSCI 461G Theory of Computation COMPSCI 471G Software Engineering COMPSCI 525 Network Protocols and Programming COMPSCI 543 Advanced Operating Systems COMPSCI 521 Design & Analysis of Algorithms
Physical Sciences	BIOL 415G Applied & Environmental Microbiology BIOL 527 Stream Ecology CHEM 401G Advanced Inorganic Chemistry CHEM 411G Analytical Chemistry CHEM 431G Biochemistry GEOL 403G Engineering Geology

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Representative Minor Courses (continued)	
Physical Sciences (cont.)	GEOL 412G Hydrogeology GEOPH 520 Engineering Geophysics GEOPH 525 Earthquake Seismology
Engineering Materials	ENGR 510 Electronic Materials ENGR 512 Polymers ENGR 514 Physical/Mechanical Metallurgy ENGR 516 Materials Processing
Other	CMGT 417G Project Scheduling CMGT 441G Construction Safety & Supervision CMGT 475G Project Management
Other courses and minors may be recommended by the student's supervisory committee and approved by the Dean of the Graduate College.	

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

CE — CIVIL ENGINEERING

CE 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 code, ASCE-7, NFPA 101, and the Americans with Disabilities Act. Determination of structural loads, resolution of conflicts among governing codes, and interpretation of documents. PREREQ: Junior standing.

CE 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 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 520 ADVANCED ENVIRONMENTAL ENGINEERING PROCESSES AND DESIGN (3-3-4)(F/S). Theoretical and engineering aspects of advanced chemical, physical and biological phenomena and processes applicable to the removal of impurities from water, wastewater and industrial wastes and to their transformation in receiving waters. Includes experimental problem analysis, pilot plant treatment studies with data collection and analysis and optimal treatment solution reporting. PREREQ: CE 320, CE 321, CE 336, CE 424.

CE 522 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 524 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 526 ENVIRONMENTAL PROCESS CHEMISTRY (3-0-3)(S) (Even Years). Chemical principles of water and wastewater treatment processes and reactions in receiving waters. Topics include chemical thermodynamics, reaction kinetics, acid-base equilibria, mineral precipitation/dissolution, and electrochemistry. PREREQ: CHEM 112 or PERM/INST.

CE 528 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 540 PAVEMENT DESIGN AND EVALUATION (3-0-3)(F/S). Pavement design processes, materials selection and characterization methods, design of flexible pavements, design of rigid concrete pavements, condition survey and ratings, distress evaluation, and maintenance and rehabilitation techniques. PREREQ: CE 340, CE 341 and CE 370.

CE 551 STRUCTURAL DYNAMICS (3-0-3)(F/S). Examines free vibration and response to harmonic and general dynamic loading of the single degree of freedom system, Fourier analysis and response in the frequency domain, response spectra, framed structures modeled as discrete multi-degree-of-freedom systems, dynamic analysis of nonlinear systems. Response of structural systems to earthquake excitation. PREREQ: ME 472.

CE 554 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 562 FOUNDATION DESIGN (3-0-3)(F/S). Design of foundations, slope stabilization, and retaining structures. PREREQ: CE 460.

CE 564 SEEPAGE, DRAINAGE, FLOW NETS AND EMBANKMENTS (3-0-3)(F/S). Emphasis on the applied aspects of groundwater flow and seepage through porous media from a theoretical point of view; examination and development of governing field equations; flow net construction, modeling techniques, filter design, construction dewatering; simplified design of small earthfill dams and slope stability of embankments. PREREQ: CE 360 and CE 361.

CE 570 HIGHWAY AND TRAFFIC SYSTEMS DESIGN (2-3-3) (F/S). Planning, design, and operations of urban and rural highway systems. PREREQ: CE 360 and CE 370.

CE 572 TRANSPORTATION PLANNING (3-0-3)(F/S). Theory and practice of transportation planning at the metropolitan as well as regional levels. The four-step traditional planning process will be covered in depth. Use of a transportation planning software will be required. Recent advances in planning will be introduced. PREREQ: PERM/INST.

CE 575 ADVANCED TRAFFIC MANAGEMENT (3-0-3)(F/S). An overview of recent initiatives and advances in traffic management. Focus on selected aspects such as incident detection, corridor simulation, or signal timing optimization. Use of software and completion of a project dealing with a real-world traffic problem will be required. PREREQ: PERM/INST.

COMPE — COMPUTER ENGINEERING

COMPE 530 ADVANCED DIGITAL HARDWARE DESIGN (3-0-3) (F/S). In-depth study of modern digital design practices based on Hardware Description Languages and CAD tools particularly logic synthesis, test bench design and design management. PREREQ: EE 430.

COMPE 531 DIGITAL SYSTEM TESTING AND TESTABLE DESIGN (3-0-3)(F/S). In-depth theory and practice practice of fault analysis, test generation, and design for testability of digital systems. Topics include system modeling; fault sources and types; fault simulation methods; automatic test pattern generation (ATPG) for combinatorial and sequential circuits; testability measures; design-for-testability; scan design; test compression methods; logic-level

diagnosis; built-in self-testing (BIST); VLSI testing issues; processor and memory testing. Advance research issues, including topics on mixed-signal testing are also discussed. PREREQ: EE 430, and EE 410.

COMPE 532 ADVANCED COMPUTER ARCHITECTURE (3-0-3) (F/S). Study of up-do-date multiprocessor systems and parallel computing architectures. Covers basic architectural concepts and their performance evaluation, design principles of VLIW and superscalar architectures, multithread and data-flow computers, shared and distributed memory MIMDS, associative and neural architectures. Focuses on significant trends in building systems on a chip. PREREQ: EE 432.

COMPE 533 ASIC CHIP DESIGN (3-0-3)(F/S). Study of phases of ASIC development implementing standard, specialized and DSP applications. Course covers specifications and pre-design analysis; mapping design units into architectures; evaluation of early design choices using CAD behavioral synthesis tools and design libraries; and simulation, functional, and timing verification issues. The course includes individual and group projects to build ASICs using standard ASIC design tools. PREREQ: EE 430 and EE 432.

COMPE 535 SYSTEMS FOR MULTIMEDIA PROCESSING (3-0-3) (F/S). Study of the general information theory and its applications in speech, imaging, and video processing. Focuses on the underlying structures and architectures for efficient algorithm implementation of video and speech processing systems. Current and future trends in processing, storing, coding, decoding, restoring, and transmission of multimedia information. PREREQ: PERM/INST.

COMPE 564 LARGE SCALE DISTRIBUTED SYSTEMS DESIGN (3-0-3)(F/S). Fundamental principles, critical issues and latest techniques involved in the design of advanced computer controlled systems. Emphasizes using design requirements, hardware- software tradeoffs, redundancy, and testability to develop highly reliable systems. Topics include software-hardware tradeoffs, memory hierarchy design, calculation of availability, simulation, and communication requirements. Tools and techniques used to develop systems. Incorporates case studies of actual systems. A design project will be included and consists of designing a system driven by embedded computers. PREREQ: EE 432.

CMGT — CONSTRUCTION MANAGEMENT

CMGT 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 & PDM), computerized scheduling, P.E.R.T. charts resource leveling and time-cost trade offs used as planning, scheduling, and management techniques. Occasional Friday field trips required. PREREQ: CMGT 374 and ENGR 107, or PERM/INST.

CMGT 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 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.

EE — ELECTRICAL ENGINEERING

EE 510 INTEGRATED CIRCUIT PHYSICAL DESIGN (3-0-3)(F/S). CMOS IC layout modeling, parasitic capacitance extraction, SPICE simulation. Design of logic gates, counters, registers, memories and photomasks. PREREQ: EE 322.

EE 511 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 512 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 and 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 513 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 & 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 515 CMOS MIXED-SIGNAL IC DESIGN (3-0-3)(F/S). Design of CMOS phase- and delay-locked loops, A/D and D/A converters, sigma-delta data converters and digital filters. Course will review current literature in these areas. PREREQ: EE 511.

EE 520 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 520L 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, PREREQ: EE 320.

EE 522 MICROWAVE SEMICONDUCTOR DEVICES (3-0-3)(F/S). Covers the various aspects of design, fabrication, and characterization of ultra-low-power, RF-CMOS devices. The laboratory component will teach on-wafer microwave measurement techniques. Topics will include: Short-channel CMOS device physics, Parasitic CMOS device elements, Advanced small-signal build and SOI RF-CMOS device models, Ultra-low-power device & circuit design techniques, On-wafer microwave measurement and calibration techniques, and S-parameter device evaluation methods. PREREQ: EE 520.

EE 530 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 532 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 and multi-variable optimization algorithms using linear and nonlinear programming methods to design problems in structures,

machine components, and energy systems. PREREQ: EE 332 and COMPSCI 117 or COMPSCI 125.

EE 533 EMBEDDED AND PORTABLE COMPUTING SYSTEMS (3-0-3)(F/S). Comparison of commercially available microcontrollers and their use in embedded communications and control applications. Power consumption, software development, interprocessor communication, and interfacing with sensors, actuators, and input/output devices. Use of microcontroller cores implemented in programmable logic devices as an alternative to hardwired microcontrollers. An embedded system project is designed and built. PREREQ: EE 332.

EE 534 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 540 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 540L 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 542 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 542L PHOTOLITHOGRAPHY LAB (0-3-1)(F/S). Cleanroom lab experience accompany EE 342, 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 546 FRONTIERS OF IC PROCESSING (3-0-3)(F/S). Recent and proposed developments in semiconductor process technology Course modules: Lithography, Deposition, Doping and Etch processes. PREREQ: EE 440/EE540.

EE 552 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 554 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 556 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 557 DIGITAL IMAGE PROCESSING (3-0-3)(F/S). Pictures and their computer representation. Image digitization, transformation, and prediction methods. Image coding and image data compression. Digital enhancement techniques, histogram equalization, differencing, smoothing and geometric corrections. Restoration and filtering. Edge detection and picture segmentation. PREREQ: PERM/INST.

EE 560 LINEAR SYSTEMS (3-0-3)(F/S). Methods of analysis for continuous and discrete-time linear systems. Classical solution of dynamic equations, transforms and matrices are reviewed. Emphasis is on the concept of state space. Linear spaces, concept of state, modes, controllability, observability, canonical forms, state transition matrices and irreducible realizations. State variable feedback, compensation and decoupling. PREREQ: EE 222 or PERM/INST.

EE 564 ROBOTICS AND AUTOMATED SYSTEMS (3-0-3)(F/S). An introduction to robotics with emphasis on automated systems applications. Topics include: basis 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 566 MULTIVARIABLE CONTROL SYSTEMS (3-0-3)(S). Linearization of state variable models. Time response of linear time-invariant systems. Controllability, observability, and stability of linear systems. Pole placement by state and output feedback. Observers. Linear quadratic regulator control PREREQ: EE 560 or PERM/INST.

EE 570 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 572 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 574 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.

ME — MECHANICAL ENGINEERING

ME 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 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 psychometric applications. PREREQ: ENGR 320 and MATH 275.

ME 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 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 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 standing.

ME 522 ADVANCED THERMODYNAMICS (3-0-3)(F/S). Advanced topics selected from Statistical Thermodynamics, Thermodynamics of Chemically Reacting Gases, Thermodynamics Property Formulation for Computer Applications and others at the discretion of the professor. PREREQ: ME 420.

ME 530 FLUID DYNAMICS (3-0-3)(F/S). Advanced fluid mechanics theory and applications in potential flow, boundary layer theory, viscous flow, turbulence, vorticity dynamics and circulation, compressible flow and gas dynamics, open channel flow, turbomachinery, stratified flow, laws, and introduction to computational fluid dynamics. PREREQ: ENGR 330, MATH 333, and either MATH 275 or MATH 272.

ME 532 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 533 DYNAMIC METEOROLOGY (3-1-3)(F/S). Atmospheric dynamics, conservation laws, planetary boundary layers, large scale motions and circulations, numerical modeling, prediction, meteorological resources, weather analysis, and forecasting. PREREQ: MATH 333 and either MATH 275 or MATH 272.

ME 536 COMPUTATIONAL FLUID DYNAMICS (3-0-3)(F/S). Theory and numerical modeling in fluid dynamics. Finite difference, finite volume, and finite element techniques will be treated. The course will include projects and research applications in engineering and environmental flows. PREREQ: ENGR 330, structured programming, or PERM/INST.

ME 538 CONVECTIVE HEAT TRANSFER (3-0-3)(F/S). Treatment of energy and linear momentum conservation equations; laminar and turbulent forced convective HT in internal and external flow fields; free convection. PREREQ: ME 320, ME 321.

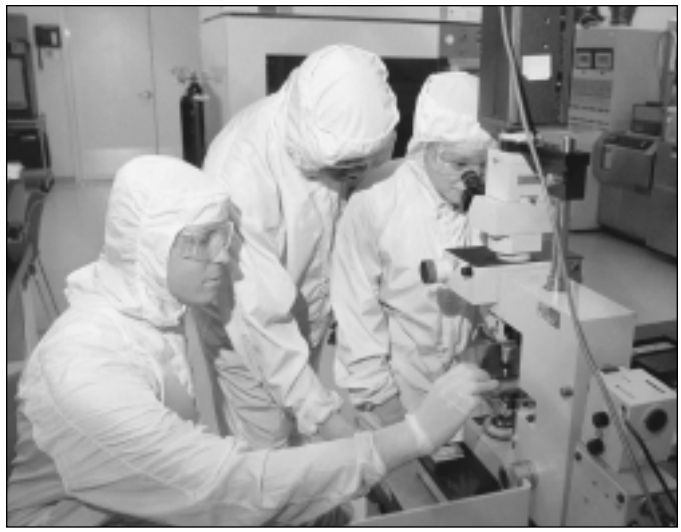
ME 550 ADVANCED MECHANICS OF MATERIALS (3-0-3)(F/S). Extension of stress-strain concepts to three-dimensions, plate and shell analysis, failure theories, and fatigue. Analysis and visualization techniques include Finite Element Analysis and photoelasticity. PREREQ: ENGR 350.

ME 554 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: Math 275 and ENGR 350.

ME 560 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 sills prior to taking ME 480. PREREQ: ME 320 and ME 382.

ME 570 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 574 ADVANCED VIBRATIONS (3-0-3)(F/S). Theory and applications of vibrating continuous and discrete multi degree of freedom systems, modal analysis, acquisition and synthesis of data. Experimental and analytical characterization of the vibration response of linear and nonlinear systems, including Transfer and Frequency



Response Functions, MIMO and SIMO, and mathematical modeling. PREREQ: ME 472 or PERM/INST.

ME 576 ADVANCED DYNAMICS (3-0-3)(F/S). Analytical modeling to predict the performance of linked, multi-body mechanical systems undergoing large displacements and rotations. Theoretical considerations in preparing models for computer simulations and interpreting results. Application of a state of the art computer package in creating realistic simulations. PREREQ: ME 380 or PERM/INST.

ME 582 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 584 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: ME 320 and ME 382.

ME 586 ADVANCED ENGINEERING DESIGN (3-0-3(F/S). Integration of systematic methods used to define, develop, and produce competitive products. Topics include: Quality Function Deployment; Functional Decomposition; Design Specification; Failure Modes and Effects Analysis; Design Analysis & Evaluation; Optimal & Robust Design; Design for Manufacture, Assembly, and Service. PREREQ: ME 480 or PERM/INST.

ME 588 DESIGN FOR MANUFACTURE AND ASSEMBLY (3-0-3) (F/S). Development and application of design methods for cost-effective and timely product manufacture & 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.

Master of Arts in English

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Director of Graduate Studies in English: Carol A. Martin
Department Chair: R. Ken Sanderson
Full Graduate Faculty: Bruce Ballenger, John Battalio, Devan Cook, Charles G. Davis, Jon P. Dayley, Charles Guilford, Janet Holmes, Daryl Jones, Richard Leahy, Helen Lojek, James H. Maguire, Mike Markel, Carol A. Martin, Robert Olmstead, Michelle Payne, Bruce Robbins, Mary Ellen Ryder, Rena Sanderson, R. Ken Sanderson, Louis Simon, Tom Trusky, Karen Uehling, Jan Widmayer, Mitchell Wieland, Linda Marie Zaerr
Associate Graduate Faculty: Steven Olsen-Smith, Tara Penry, Martin Corless-Smith

General Information

The graduate program offered by the Department of English at Boise State University is large enough to provide variety, yet small enough for flexibility in planning a course of study and for a collegial atmosphere. The Department's graduate faculty teach on all levels in addition to pursuing interests in scholarship, writing, editing, publishing, and related activities.

The Master of Arts degree in English enables candidates to emphasize study in English and American Literature, English Education, and Rhetoric and Composition. A Master of Arts degree in Technical Communication and a Master of Fine Arts in Creative Writing are also available from the Department of English. Information about these degrees can be found under their own headings.

The Department of English, in response to Boise State University's goals, provides excellent computer labs, including three administered by the Department itself, for word processing, desktop publishing, and network access to on-line resources and information about library holdings in the United States and abroad.

The Hemingway Center, administered by the Department of English, is another resource to be found on campus. It is the home of the Idaho Center for the Book, affiliated with the Library of Congress. The Center also oversees the Idaho Writers' Archive.

The Department of English offers a number of Graduate Assistantships in teaching, tutoring, and editing. The assistantships include waivers of tuition and fees, resident or non-resident. Complete applications are due February 15 for priority consideration. Applications received after that date will be considered if there are openings. More detailed information is available from the Director of Graduate Studies in English.

Application and Admission Requirements

To be considered for regular status as a graduate student in the Department of English, an applicant must meet general Graduate College requirements (which include requesting that official transcripts from all institutions previously attended be sent to the Graduate Admissions Office, MG 141, Boise State University, Boise Idaho 83725) and the following department requirements:

1. A Bachelor of Arts in English. In lieu of this, an applicant may demonstrate a strong background in an area of study available in the graduate curriculum of the Department of English to be considered for admission into the program.
2. A GPA of at least 3.0 for the last sixty semester credit hours of undergraduate work.
3. Scores for the Graduate Record Examination (GRE), sent to the Graduate Admissions Office. The applicant must score at least 500 on the Verbal Section of the GRE. Scores on sections other than the Verbal Section are for information purposes only.
4. An essay of from five hundred to seven hundred words explaining the applicant's goals in pursuing graduate study in English, sent directly to the Director of Graduate Studies in English.
5. Three letters of recommendation from people who know the applicant's academic work, sent directly to the Director of Graduate Studies in English.

Applicants who do not satisfy one or more of these requirements by the time they wish to begin classes should contact the Director of Graduate Studies in English to discuss their options.

Degree Requirements

Master of Arts in English

Course Number and Title	Credits
Core Requirements:	
ENGL 500 Seminar in English Studies	3
ENGL 561 Theories of Rhetoric and Composition OR ENGL 588 Survey of Critical Theory	3
ENGL 510 Seminar in Major American or English Writer	3
ENGL 530 Studies in a Literary Period	6
Candidates must take at least two period courses. One of these must be in medieval through eighteenth-century literature and one in nineteenth- or twentieth-century literature. Courses will be offered in the following periods:	
Studies in Medieval English Literature	
Studies in Renaissance Literature	
Studies in Restoration and Eighteenth-Century Literature	
Studies in English Romanticism	
Studies in Victorian Literature	
Studies in Twentieth-Century English Literature	

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Master of Arts in English (continued)	
Studies in Colonial American Literature Studies in Nineteenth-Century American Literature Studies in Twentieth-Century American Literature Studies in Twentieth-Century Postcolonial Literature in English	
Electives: To be selected from other graduate offerings in Literature, Linguistics, English Education, Rhetoric and Composition, Creative Writing, and Technical Communication. The electives include thesis/project credits, ENGL 598 (Seminar for Teaching Assistants), up to six credits for ENGL 400G courses, and up to three credits of independent work.	18
ENGL 598 Seminar for Teaching Assistants This seminar is required and reserved exclusively for teaching assistants to be completed the first semester of the appointment.	3
Culminating Activity: A comprehensive written examination, followed by a one-hour oral examination, both consisting chiefly of questions covering the general history of English and American literature, not merely the courses taken by a candidate. No credit hours are granted for taking the examination. OR Students not taking the comprehensive examination should register for ENGL 591 Project or ENGL 593 Thesis in their final semester to receive the three hours credit for a completed project or thesis that applies to the 33 credit hour minimum required for the degree.	0 3
Additional Information: A maximum of six (6) credits in ENGL 400G courses may be applied toward graduation requirements. A combined total of three credits in ENGL 590 (Practicum/Internship), ENGL 595 (Readings and Conference), and ENGL 596 (Directed Research) may be applied toward graduation requirements with the approval of the Graduate Director and the Department Chair. No credits taken outside the English Department may be applied toward graduation requirements.	
TOTAL	**33**

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

ENGL — ENGLISH

ENGL 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 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 201.

ENGL 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. Students seeking graduate credit will produce a greater quantity and higher quality of original work, will have a separate and more extensive reading list, and will be expected to participate more fully in class activities. May be repeated for nine credit hours. PREREQ: ENGL 205 or PERM/INST.

ENGL 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 412G WOMEN WRITERS (3-0-3)(F/S). Literature by English-speaking women, with special attention to cultural contexts, the themes and methods used by women writers, and how women writers have created their own tradition. The course may focus on writings of a particular period. Alternate years. PREREQ: ENGL 275 or PERM/INST.

ENGL 500 SEMINAR IN ENGLISH STUDIES (3-0-3)(F/S). An orientation to graduate study in English, with particular focus on research techniques, methods of bibliography, and methods of critical analysis. PREREQ: Admission to graduate program or PERM/CHAIR.

ENGL 501 THE TEACHING OF WRITING (3-0-3)(F/S). Theories and methods of teaching writing for experienced teachers. Special emphasis on new discoveries about the learning process in writing courses and in the teacher's role in helping individual students. PREREQ: ENGL 301, ENGL 500, and teaching experience or PERM/CHAIR.

ENGL 505 LINGUISTICS (3-0-3)(F/S). Modern linguistic theories and their application to literature and teaching English. An examination of how various grammatical models represent the complexities of language sound, sequence, and structure. Application of theory to language at work. Alternate years. PREREQ: LING 305 or equivalent or PERM/CHAIR.

ENGL 510 SEMINAR IN MAJOR AMERICAN OR ENGLISH WRITER (3-0-3)(F/S). A consideration of minor and major artistic creations of an author with attention to major influences on the writer and his/her influences on others. Aspects of investigation to include the life of the author and its relation to his/her work, the society and culture of the times, his/her place and stature in the genres in which he/she worked, his/her use or disregard of tradition, as well as an investigation of contemporary criticism and critical evaluation since the writer's time. (Repeatable for credit.)

ENGL 520 GENRE (3-0-3)(F/S). A study of a well defined literary category, such as novel, short story, epic, or tragedy. Examination of representative texts in order to discover the evolution of a specific literary genre while at the same time establishing its typical features. (Repeatable for credit.)

ENGL 530 STUDIES IN A LITERARY PERIOD (3-0-3)(F/S). A study of a selected chronological period of American or British literature with focus on major authors, genres, or topics. (Repeatable for credit.)

ENGL 550 LITERATURE AND CULTURE (3-0-3)(F/S). The interaction between a body of literature and the social, economic, and political forces that characterize the culture in which it originates. The influence of culture on literary form and content. (Repeatable for credit.)

ENGL 554 INTRODUCTION TO APPLIED RESEARCH AND PROJECTS IN THE ENGLISH LANGUAGE ARTS (3-0-3)(F/S). Methods of and approaches to conducting applied research in classrooms and the workplace and developing projects in the English Language Arts from such research. This course is recommended for students electing the project option for the M.A. in English. Intended primarily for classroom teachers, the course is appropriate for others who offer instruction, including technical writing trainers and teachers of literacy in GED centers, workplace literacy projects, and community education projects. PREREQ: ENGL 501 or ENGL 581 or PERM/CHAIR.

ENGL 561 THEORIES OF RHETORIC AND COMPOSITION (3-0-3)(F/S). A study of the theoretical context of current writing and writing pedagogy. Influential theories of invention, arrangement, and style, from ancient and modern times, are examined and compared. Special attention is paid to the relationships of current rhetorical and cognitive theories to writing processes and written products. PREREQ: Admission to Graduate Program or PERM/CHAIR.

ENGL 570 LITERARY MOVEMENTS (3-0-3)(F/S). A focus on a significant literary movement, the works of its major and minor contributors, its theories and its practice, its relation to its time, its place in literary history, its influence on writers past and present. (Repeatable for credit.)

ENGL 581 LITERATURE FOR USE IN JUNIOR AND SENIOR HIGH SCHOOLS (3-0-3)(F). A literary content course for prospective teachers of secondary school English. Primary emphasis on critical reading of literature for adolescents in secondary school. Secondary emphasis on methods of analysis appropriate to students. All genres as well as classic and popular authors. PREREQ: ENGL 102, two literature courses or PERM/CHAIR.

ENGL 582 SELECTED TOPICS IN TEACHING ENGLISH LANGUAGE ARTS (3-0-3)(F/S). Study of current theories and topics in teaching the English Language Arts in composition, language, or literary theory of special interest to the experienced teacher. A specific focus will be announced each time the course is offered. Although targeted primarily at classroom teachers, the course may be appropriate for others who offer instruction, including technical writing trainers and teachers of literacy in GED centers, workplace literacy projects, and community education projects. Alternate years. PREREQ: ENGL 301 or ENGL 381 or ENGL 481 or teaching experience or PERM/INST.

ENGL 585 SELECTED TOPICS IN LINGUISTICS (3-0-3)(F/S). An investigation of a particular topic in linguistics, drawn generally from psycholinguistics, sociolinguistics, semantics, pragmatics, discourse, syntax, or morphology. Course work will include lecture, discussion, and a paper or project, depending on the nature of the topic. Repeatable once for credit. PREREQ: LING 305.

ENGL 588 SURVEY OF CRITICAL THEORY (3-0-3)(F/S). A survey of major contemporary theories of literary criticism and their effects on literary studies.

ENGL 591 PROJECT (V-0-V). A project may include, but is not limited to, a library research paper, experimental research on some aspect of pedagogy, or preparation of written curriculum with related teaching materials. PREREQ: Admission to candidacy and approval of the student's graduate committee.

ENGL 593 THESIS (V-0-V). A scholarly paper containing the results of original research. PREREQ: Admission to candidacy and approval of the student's graduate committee.

ENGL 597 SPECIAL TOPICS. Courses in response to student and faculty interests are offered in addition to the formal courses listed above. Examples of Special Topics courses offered by the Department of English include Literature and Film, Teaching Basic Writing, and Form and Theory of Nonfiction.

ENGL 598 SEMINAR FOR TEACHING ASSISTANTS (3-0-3)(F). An exposure to writing theory and practice, the teaching community, and the Department's English Composition courses. The seminar provides information and support for first year teaching assistants while they learn to meet their obligations as classroom teachers. PREREQ: PERM/INST.

LING — LINGUISTICS

LING 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.

Master of Science in Exercise and Sport Studies

Department of Kinesiology
Kinesiology Building, Room 209
Telephone 208 426-3709
FAX 208 426-1894
e-mail: rpfeiff@boisestate.edu

Graduate Program Coordinator: Ron Pfeiffer
Department Chair: Ross Vaughn
Full Graduate Faculty: Werner Hoeger, Bill Kozar, Linda Petlichkoff, Ron Pfeiffer, Glenn Potter, Ross Vaughn
Associate Graduate Faculty: Kenneth Bell, Chad Harris, John McChesney, Caile Spear
Adjunct Graduate Faculty: Jeff Pitman, Kevin Shea

General Information

The graduate program in Exercise and Sport Studies is designed to accommodate students with diverse academic backgrounds. Advanced educational opportunities in both theoretical and applied aspects are critical parts of the program of study.

A required core of classes provides the foundation for study in this area, while electives allow for individual enrichment in subjects of special interest. Students may also pursue self-directed research with the intent of applying findings to related problems in their field of study.

It is assumed students are seeking a program which fosters critical thought. Therefore, those graduating must be able to apply the scientific method of problem solving to issues and questions related to one or more of the many dimensions of exercise and sport. Important outcomes for learners include:

1. Acquiring a sound conceptual basis from which leadership can be exercised in the profession.
2. Demonstrating the expertise to interpret, communicate and effectively promote health lifestyles in occupational settings.
3. Being intelligent consumers of research with competence to apply findings to the design, administration, evaluation and improvement of sport science-related programs.

4. Possessing the skills needed to develop and conduct research which contributes to the growth of knowledge in the field.

Fundamental to the Graduate Program are faculty who provide a supporting environment and are active in teaching, scholarship, research and professional development.

Application and Admission Requirements

Students will be admitted to the Exercise and Sport Studies Master's program with Regular Status when the following criteria are met:

1. The Graduate College has received an application for admission, a one-time matriculation fee, and official transcripts of all undergraduate and graduate work.
2. A baccalaureate degree has been granted from an accredited institution.
3. A minimum cumulative grade point average of 3.0 on a 4.0 scale, and at least a 3.0 GPA for the last sixty credits of undergraduate work has been earned.
4. An appropriate pattern of classes providing a foundation for the graduate area of study as determined by Kinesiology Department Graduate Faculty has been completed.
5. The Coordinator of the Graduate Program recommends acceptance and approval is granted by the Graduate College.

Degree Requirements

Master of Science in Exercise and Sport Studies

Course Number and Title	Credits
CORE REQUIREMENTS KINES 500 Functional Anatomy .....3 KINES 510 Physiology of Activity .....3 KINES 520 Biomechanics .....3 KINES 530 Psychology of Exercise & Sport .....3 KINES 560 Motor Learning 3	15
RESEARCH TOOLS KINES 551 Research Design in Exercise and.....3 Sport OR TEACH-ED 551 Fundamentals of Educational Research .....3 KINES 552 Statistical Methods in Exercise and Sport 3	6
SUGGESTED ELECTIVES KINES 375G & 376G Human Growth & Motor Learning & Lab.....3 KINES 330G & 331G Exercise Physiology & Lab ..3 KINES 370G & 371G Biomechanics & Lab.....3 KINES 365G Social Psychology of Physical Activity ..3 KINES 515 Exercise Physiology Lab .....3 KINES 525 Mechanical Analysis of Motor Activities ..3 KINES 535 Sociology of Exercise & Sport.....3 KINES 540 Applied Principles of Conditioning ...3 KINES 545 Exercise Testing & Prescription 3	9-12

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Master of Science in Exercise and Sport Studies (continued)

KINES 550 Philosophy of Exercise & Sport .....3 KINES 570 Health Promotion.....3 KINES 575 Computers in Exercise & Sport.....3 KINES 580 Selected Topics in Applied Sport Psychology.....3 KINES 590 Practicum .....3 KINES 596 Directed Research 3	
THESIS OPTION KINES 593 Research & Thesis.....6 or NON-THESIS OPTION KINES 591 Project.....3	3-6
TOTAL	**36**
A maximum of 6 credits of G designated undergraduate courses may be used as electives.	
A revolving four year draft of graduate offerings is available upon request from the Department of Kinesiology, G 209.	

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

KINES — KINESIOLOGY

KINES 330G EXERCISE PHYSIOLOGY (2-0-2)(F/S). Instruction in the physiological and biochemical changes accompanying exercise and training with emphasis on application of scientific principles to training program design. COREQ: KINES 331G.

KINES 331G LABORATORY FOR EXERCISE PHYSIOLOGY (0-2-1)(F/S). The laboratory to accompany KINES 330G. COREQ: Concurrent enrollment in KINES 330G is required.

KINES 365G SOCIAL PSYCHOLOGY OF PHYSICAL ACTIVITY (2-0-2)(F/S). 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: Graduate standing, PSYC 101 and KINES 201.

KINES 370G BIOMECHANICS (2-0-2)(F/S). Anatomical and mechanical considerations applied to human motion in sport and exercise. COREQ: KINES 371G.

KINES 371G LABORATORY FOR BIOMECHANICS (0-2-1)(F/S). The laboratory to accompany KINES 370G. COREQ: KINES 370G.

KINES 375G HUMAN GROWTH AND MOTOR LEARNING (2-0-2)(F/S). Designed to provide the student with an understanding of human growth, movement development, motor learning and control. Application to skilled behavior is emphasized. COREQ: KINES 376G.

KINES 376G LABORATORY FOR HUMAN GROWTH AND MOTOR LEARNING (0-2-1)(F/S). The laboratory to accompany KINES 375G. COREQ: Concurrent enrollment in KINES 376G is required.

KINES 500 FUNCTIONAL ANATOMY (3-0-3). A study of gross human anatomy from the descriptive approach with emphasis on the skeletal, muscular, nervous and circulatory systems. Includes cadaver dissection. In addition, indepth study of joint structure and function, gross-motor-movement, and skill will be included.

KINES 510 PHYSIOLOGY OF ACTIVITY (3-0-3). A study of the various factors affecting human performance and subsequent adaptations of the body to single and repeated bouts of exercise.

KINES 515 EXERCISE PHYSIOLOGY LAB (2-2-3). Practical application of the principles that govern response and adaptation of the human body to exercise, utilizing laboratory equipment to collect data and analyze results. PREREQ: KINES 510 or PERM/INST.

KINES 520 BIOMECHANICS (3-0-3). A study of the internal and external forces acting on the human body and the effects produced by these forces. Analysis of movement will focus on qualitative techniques.

KINES 525 MECHANICAL ANALYSIS OF MOTOR ACTIVITIES (3-0-3). An introduction to the analysis techniques used to study the mechanics of human motion. Topics will include cinematography, videography, force transducers, electromyography and computer analysis techniques. PREREQ: KINES 520 or PERM/INST.

KINES 530 PSYCHOLOGY OF EXERCISE AND SPORT (3-0-3). A study of psychological factors as they relate to exercise, sport and performance. Content includes personality traits, motivation, anxiety/arousal, and intervention/coping strategies.

KINES 535 SOCIOLOGY OF EXERCISE AND SPORT (3-0-3). A study of the relationships among sport and other facets of society, including social organization, group behavior and social interaction patterns.

KINES 540 APPLIED PRINCIPLES OF CONDITIONING (2-2-3). Advanced study of the conditioning process. Emphasis on application of the conceptual to practical situations. Involves program planning, objectives, exercise analysis for conditioning specificity, exercise prescription and other conditioning variables affecting performance. PREREQ: KINES 510 or PERM/INST.

KINES 545 EXERCISE TESTING AND PRESCRIPTION (2-2-3). A study of the current methods and procedures used in coronary heart disease risk detection and reduction, including the recommended guidelines by the American College of Sports Medicine for exercise testing and prescription.

KINES 550 PHILOSOPHY OF EXERCISE AND SPORT (3-0-3). A study of the philosophical foundations underlying exercise and sport. Topics include values development, design and evaluation of individual and program philosophy and goal structuring.

KINES 551 RESEARCH DESIGN IN EXERCISE AND SPORT (3-0-3)(S). Includes critical analysis of published research in terms of research design, statistical procedures, concepts of validity, experimentation and control; classification of various research methods; various types of research problems; and the relevant attributes of experimental designs. A research proposal is a requirement of the course.

KINES 552 STATISTICAL METHODS IN EXERCISE AND SPORT (3-0-3)(F). An introduction to statistical techniques utilized in the treatment of data in the motor behavior area. The techniques to be covered include measures of central tendency and variability; correlation measures; probability; analysis of variance and regression analysis. PREREQ: Undergraduate measurement or statistics course. Cross listed with MHLTHSCI 552.

KINES 555 PHYSICAL EDUCATION PEDAGOGY (3-0-3) (F/S/SU). Advanced pedagogical theory and practice in physical education. In-depth study of the teaching and learning process through application of advanced teaching methods and student assessment.

KINES 560 MOTOR LEARNING (3-0-3). A study of the relevant empirical evidence and research in the field of motor learning and performance, including the learning process, feedback, timing, information processing, transfer, perception, motivation and practice conditions.

KINES 570 HEALTH PROMOTION (3-0-3). A critical examination of health promotion and education policy with an emphasis on planning, implementation and evaluation of health programs for various public sectors. Cross-listed with MHLTHSCI 570.

KINES 575 COMPUTERS IN EXERCISE AND SPORT (3-0-3). An introduction to computer applications in the exercise and sport sciences, including methods for collecting data. Processing of data will include both microcomputer software and the Statistical Analysis System (SAS) package.

KINES 580 SELECTED TOPICS IN APPLIED SPORT PSYCHOLOGY (3-0-3).

KINES 590 PRACTICUM (0-9-3). Available on a selective, limited basis. Culminating experience designed to provide students with an opportunity to apply skills learned in the classroom. PREREQ: PERM/INST.

KINES 591 PROJECT (3 credits). Students select a project related to Exercise and Sport Studies and pursue it to a logical conclusion. PREREQ: Admission to candidacy and approval of the student's graduate committee.

KINES 593 RESEARCH AND THESIS (6 credits). A scholarly paper containing the results of original research. PREREQ: Admission to candidacy and approval of the student's graduate committee.

KINES 596 DIRECTED RESEARCH (variable credits). Opportunity for the student to pursue a topic of interest on an individual basis.

Master of Physical Education in Athletic Administration

Department of Kinesiology
Kinesiology Building, Room 209
Telephone 208 426-3709
FAX 208 426-1894
e-mail: rpfeiff@boisestate.edu

Graduate Program Coordinator: Ron Pfeiffer
Department Chair: Ross Vaughn
Full Graduate Faculty: Werner Hoeger, Bill Kozar, Linda Petlichkoff, Ron Pfeiffer, Glenn Potter, Ross Vaughn
Associate Graduate Faculty: Kenneth Bell, Chad Harris, John McChesney, Caile Spear
Adjunct Graduate Faculty: Jeff Pitman, Kevin Shea
Idaho State University Graduate Faculty: Mike Lester, Marcia Lloyd, Gerard Lyons, Cynthia Pemberton

General Information

The Master of Physical Education in Athletic Administration is a cooperative graduate studies program. Idaho State University (ISU) and Boise State University (BSU) have agreed to offer ISU's existing Master of Physical Education (MPE) graduate degree in Athletic Administration in Boise. Entering students will be able to complete the entire 30-33 credit hour degree in Boise and take up to 15 credits of BSU courses as part of the program requirements. Further stipulations of this cooperative venture are:

1. ISU will continue to be the degree granting institution. **Students will initially apply for admission to ISU, and if accepted, apply for admission to BSU. An application fee must be paid to each institution.** Courses from both institutions that are offered in Boise will be printed in the BSU Directory of Classes after Kinesiology courses and listed under a separate and distinct heading of "Athletic Administration (ATHLADM)". Under the title of each course it will be stated that the course is part of the ISU Cooperative Athletic Administration Program.
2. ISU Graduate Faculty should formally advise all students. A BSU student may request an advisor from BSU. The ISU SSPED Graduate Program Coordinator must approve this request.
3. ISU Graduate Faculty should chair all projects, thesis, and comprehensive exam committees. A BSU student may request that a BSU Graduate Faculty member serve as major advisor. This request must be approved by the ISU SSPED Graduate Program Coordinator. BSU faculty who hold At-Large Graduate Faculty status at ISU may serve as committee members and upon request will submit comprehensive examination questions and participate in the evaluation of same.

Application and Admission Requirements

Students will register at Boise State University for all ISU and BSU courses taken in Boise in accordance with the procedures stated in the BSU Directory of Classes.

Students will pay fees to Boise State University and receive BSU activity cards (consistent with current BSU practices for full-time and part-time students) and thereby receive the appropriate services and use of campus facilities.

Financial Aid

Students taking ISU and/or BSU courses in Boise will be considered as "in-residence" at Boise State. Therefore, students applying for financial aid will do so through the Financial Aid Office at BSU.

Due to a limited number and amount of scholarship funds at BSU, scholarship monies are not available to students in cooperative programs. If there are scholarships at ISU specifically earmarked for the Athletic Administration program, or if scholarships are developed for this program, they will be awarded by ISU and handled through the BSU Financial Aid Office as are all other outside donor awards.

Graduation

Idaho State University graduation requirements must be met by each student seeking an MPE degree in Athletic Administration. Therefore, students must apply for graduation through ISU and a final evaluation of their transcripts will be completed by the ISU Registrar.

Degree Requirements

Master of Physical Education in Athletic Administration ISU/BSU Cooperative Program

Course Number and Title	Credits
Students in the Cooperative MPE degree in Athletic Administration between ISU and BSU would be limited to taking a maximum of 15 BSU credits, subject to approval from their ISU advisor.	
ATHLADM 505 (PE 605) Leadership & Administration....3 ATHLADM 515 or KINES 550 (PE 615) Philosophy of Athletics....3 ATHLADM 531 (PE 631) Athletics & the Law....3 ATHLADM 535 (PE 635) Management of Athletics..3 ATHLADM 540 or KINES 551 (PE 640) Research & Writing....3 ATHLADM 549 (PE 649) Issues in Administration..3	18
THESIS OPTION ATHLADM 550 (PE 650) Thesis....1-6 Approved Electives....6 or NON-THESIS OPTION ATHLADM 510 (PE 610) Advanced Sport Psychology or KINES 530 Psychology of Exercise and Sport..3 ATHLADM 545 (PE 645) Sports Medicine....3 Approved Electives....9	12 or 15
Total	**30-33**

Master of Fine Arts in Creative Writing

Department of English
Liberal Arts Building, Room 228
Telephone 208 426-1205
FAX 208 426-5426
http://english.boisestate.edu/mfa
e-mail: rolmstea@boisestate.edu

Director of Creative Writing: Robert Olmstead
Graduate Program Coordinator: Carol A. Martin
Department Chair: R. Ken Sanderson
Full Graduate Faculty: Bruce Ballenger, John Battalio, Devan Cook, Charles G. Davis, Jon P. Dayley, Charles Guilford, Janet Holmes, Daryl Jones, Richard Leahy, Helen Lojek, James H. Maguire, Mike Markel, Carol A. Martin, Robert Olmstead, Michelle Payne, Bruce Robbins, Mary Ellen Ryder, Rena Sanderson, R. Ken Sanderson, Louis Simon, Tom Trusky, Karen Uehling, Jan Widmayer, Mitchell Wieland, Linda Marie Zaerr
Associate Graduate Faculty: Steven Olsen-Smith, Tara Penry, Martin Corless-Smith

General Information

The program offers maximum flexibility for writers seeking a place to focus on their craft. Students pursuing the degree specialize in either fiction, poetry, or creative nonfiction and work closely with the creative writing faculty in workshop and conference settings.

The M.F.A. in Creative Writing from Boise State University represents a student's mastery of one of the genres of creative writing, as well as a thorough grounding in traditional and contemporary letters. Students work with a faculty of accomplished writers and produce a manuscript of publishable quality during their course of study. While the M.F.A. is the preferred degree for teachers of creative writing, the program at Boise State University also prepares students with courses offered in professional editing and publishing (practicum classes with Ahsahta Press and *The Idaho Review*), form and theory, and book arts, as well as with invaluable teaching experience in the creative writing classroom.

The Idaho Review, published by the M.F.A. program, offers a chance for students to work on a national literary journal, either as graduate assistants or through course credit or internship. A second literary publication, *cold drill*, is run entirely by M.F.A. students, and offers extensive experience in designing, managing, and editing a literary magazine. Students can also gain editing experience working for Ahsahta Press, a nationally recognized publisher of poetry. Established in 1974, Ahsahta Press publishes up to three volumes each academic year. The book arts program offers additional opportunities in design and publishing.

The Hemingway Center, administered by the Department of English, is another resource to be found on campus. It is the home of the Idaho Center for the Book, affiliated with the Library of Congress. The Center also oversees the Idaho Writers' Archive.

The Department of English offers a number of Graduate Assistantships. These assistantships include waivers of tuition and fees, resident or non-resident. Complete applications are due February 15 for priority consideration. More information is available from the Director of Creative Writing.

Application and Admission Requirements

To be considered for regular status as a graduate student in the Department of English M.F.A. in Creative Writing, an applicant must meet general Graduate College requirements (which includes requesting that official transcripts from all institutions previously attended be sent to the Graduate Admissions Office, MG 141, Boise State University, Boise Idaho 83725) and the following department requirements:

1. A writing sample consisting of thirty manuscript pages of fiction or nonfiction or fifteen poems, sent directly to the Director of Creative Writing.
2. A Bachelor of Arts in English. However, an applicant may demonstrate a strong background in an area of study available in the graduate curriculum of the Department of English to be considered for admission into the M.F.A. program.
3. Three letters of recommendation from people who know the applicant's academic work, sent directly to the Director of Creative Writing.
4. A GPA of at least 3.0 for the last sixty semester credit hours of undergraduate work.
5. Scores for the Graduate Record Examination (GRE), sent to the Graduate Admissions Office. The applicant should score at least 500 on the Verbal Section of the GRE. Scores on sections other than the Verbal Section are for information purposes only.

Applicants who do not satisfy one or more of these requirements by the time they wish to begin classes may be admitted with provisional status. They will be advised as to what steps they need to take to qualify for regular status. For more in-depth information, please visit our web site.

Degree Requirements

To satisfy the requirements of the M.F.A. in Creative Writing, students must complete a book-length thesis project of either fiction, nonfiction, or poetry. Students should register for ENGL 593 Thesis in their final two semesters to receive six credit hours for a completed thesis that applies to the 48 credit hour minimum required for the degree.

Master of Fine Arts in Creative Writing	
Course Number and Title	**Credits**
English Courses 500-Level courses (one appropriate 400G English course allowed) .....18 Required for Teaching Assistants: ENGL 598 Seminar for Teaching Assistants ....3 Plus at least one course selected from: ENGL 502 Teaching Fiction, Nonfiction, and Poetry Writing .....3 ENGL 507 Small Press Production .....3 ENGL 508 Writing, Editing, and Designing for Professional Advancement .....3 ENGL 509 Book Arts .....3 ENGL 526 Form and Theory of Fiction, Nonfiction, and Poetry Writing.....3	21
Workshops: ENGL 525 Fiction, Nonfiction, or Poetry.....3 NOTE: Students must declare themselves for fiction, nonfiction, or poetry.	12
Electives: Any discipline, after consultation with advisor ...3 NOTE: May be cross-genre 400G writing course.	9
Thesis	6
TOTAL	**48**

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

ENGL — ENGLISH

ENGL 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 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 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 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 502 TEACHING FICTION, NONFICTION, AND POETRY WRITING (3-0-3)(F). Theories and practices for teaching secondary school students, college students, and others how to write in genres such as poetry, fiction, and essay or article. Emphasis is on teaching in classroom and workshop settings. PREREQ: Admission to program or PERM/INST.

ENGL 507 SMALL PRESS PRODUCTION (3-0-3)(F/S). A practicum course that studies the manuscript selection and preparation, design, editing, distribution, and promotion practices of small presses with the intention of preparing students to write, design, and submit manuscripts for publication. Students acquire hands-on experience with Ahsahta Press. PREREQ: Admission to program or PERM/INST.

ENGL 508 WRITING, EDITING, AND DESIGNING FOR PROFESSIONAL ADVANCEMENT (3-0-3)(F). A writing course which studies literary journals, trade journals, and little magazines, and which looks at tradebook and electronic publication with the intention of preparing students to write, design, and submit manuscripts, as well as to prepare professional resumes and letters of application. PREREQ: Admission to program or PERM/INST.

ENGL 509 BOOK ARTS (3-0-3)(F/S). A historical survey of various aspects of bookmaking, including papermaking, typography, printing, binding, and desktop publishing, as well as book distribution/marketing, and production of artist's and eccentric bookworks. Course culminates in production of a classroom edition of each student's original writings or art works in an appropriate format devised by the student. PREREQ: ENGL 309 or PERM/INST.

ENGL 525 FICTION, NONFICTION, AND POETRY WRITING WORKSHOP (3-0-3)(F). An advanced workshop in fiction nonfiction, and poetry. Students will study the form and theory of poetry, nonfiction, and fiction from the perspective of practicing writers and will apply these principles to the analysis and criticism of one another's work. Students must declare themselves for fiction, nonfiction, or poetry. PREREQ: Admission to program or PERM/INST.

ENGL 526 FORM AND THEORY OF FICTION, NONFICTION, OR POETRY (3-0-3)(S). An intensive study of aspects of craft in fiction, nonfiction, or poetry genres. Course will encourage students to reflect on and experiment with particular methods, approaches, and techniques in particular genres and explore their aesthetic effects. PREREQ: Admission to program or PERM/INST.

ENGL 593 THESIS (V-0-V). Students must complete a book-length thesis project of either fiction, nonfiction, or poetry for 6 credit hours of thesis.

ENGL 597 SPECIAL TOPICS. Courses are offered in response to student and faculty interests and are offered in addition to the formal courses listed above. Examples of Special Topics courses offered by the Department of English include Literature and Film, Teaching Basic Writing, and Form and Theory of Nonfiction.

ENGL 598 SEMINAR FOR TEACHING ASSISTANTS (3-0-3)(F). An exposure to writing theory and practice, the teaching community, and the Department's English Composition courses for first semester Teaching Assistants. The seminar will provide information and support for the assistants while they learn to meet their obligations as classroom teachers. PREREQ: PERM/INST.

Master of Fine Arts, Visual Arts

Department of Art
Liberal Arts Building, Room 252
Telephone 208 426-4070 or 426-1230
FAX 208 426-1243
e-mail: creagle@boisestate.edu
http://www.boisestate.edu/art/

Graduate Program Coordinator: Richard Young
Department Chair: Gary Rosine
Full Graduate Faculty: Jim Blankenship, Donald Douglass, Heather Hanlon, George Roberts, Gary Rosine, Cheryl Shurtleff-Young, Brent Smith, John Taye, Ron Taylor, Richard Young
Associate Graduate Faculty: Stephanie Bacon, James Budde, Francis Fox, Felix Heap, Karen Kosasa, Larry McNeil, Lee Ann Turner

General Information

The Department of Art offers a minimum two year, full time Master of Fine Arts degree program in painting, drawing, printmaking, ceramics, art metals, and sculpture. The degree requires 60 total credits distributed as follows: 9 credits in Art History, 24 credits in the studio major, 12 credits in the studio elective, 6 credits of general electives, 9 credits in seminar and thesis.

Students admitted to the program will be provided with private or semi-private studio space. Graduate faculty will schedule regular studio visits and consultations.

The MFA degree program is designed to engage the student in both the theory and practice of their elected discipline. Graduate students are encouraged to explore and integrate other relevant disciplines. Course work centers around applied study, art history, theory and criticism. A final exhibition and a written thesis, approved and passed by the graduate faculty are required.

Teaching Assistantships are available for full-time students. Assistantships include an out-of-state tuition waiver, in-state fee waiver, and a stipend. Assistants must enroll for a minimum of eight credit hours each semester and must meet any other requirements as set forth by the Graduate College. Applications must be received by April l. To receive an application, please submit your request to: Graduate Studies, Department of Art, Boise State University, 1910 University Drive, Boise, ID 83725.

Admission Requirements

Fall admission only. To be considered as a graduate student in the MFA program, applicants must possess a B.A., B.F.A., or a M.A. degree in Art from an accredited institution and have a minimum grade point average of 3.0 in art course work.

Students must be admitted to the Graduate College and have official transcripts from all institutions previously attended submitted to Graduate Admissions Office, MG 141, Boise State University, Boise, ID 83725.

Applicants must also provide the following to the Art Department, Boise State University, Boise, ID 83725:

- A portfolio of at least 20 slides of recent art work.
- Three letters of recommendation.
- A statement of personal objectives.

Degree Requirements

Master of Fine Arts, Visual Arts

Course Number and Title	Credits
Art History A combination of undergraduate and graduate credits to total 21 credits.	9
Studio Courses A. Studio major B. Studio electives Studio electives are intended to: 1) strengthen and enhance the major area; 2) to broaden the student's art experience; 3) to allow for interarts applications; and 4) to enhance the candidate's employment potential.	 24 12
Seminar and Thesis	9
General electives To be selected in consultation with the student's thesis committee	6
TOTAL	**60**

Sequence of the Program

	1st Sem	2nd Sem
FIRST YEAR		
Art History	3	3
Studio Major	6	6
Studio Elective	3	3
General Elective	3	3
TOTAL	15	15
SECOND YEAR		
Art History	3	-
Studio Major	6	6
Studio Elective	3	-
Seminar and Thesis	3	6
General Electives	-	3
TOTAL	15	15

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

ART — ART

ART 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 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 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 201.

ART 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 201.

ART 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 BS-330 AD), with emphasis on the artistic achievements of the Roman Empire. Recommended: ART 201.

ART 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 201.

ART 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 354G NORTHERN RENAISSANCE ART (3-0-3)(F/S)(Alternate Years). An examination of 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 355G ITALIAN RENAISSANCE ART (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 202.

ART 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 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 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 365G BAROQUE ART (3-0-3)(F/S)(Alternate Years). A survey of European visual culture during the last 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 202.

ART 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 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 AR 302 prior to AR 371G.

ART 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 or ART 371 or PERM/INST.

AR 580-589 SERIES SELECTED TOPICS (V-0-V). Media specific studio courses taught by the graduate faculty. Students will have an opportunity to have their art work analyzed and critiqued by practicing fine art professionals. PREREQ: The following courses are reserved for matriculated graduate MA and MFA art students. Exceptions may be allowed by special permission of the course instructor and the director of the program.

AR 580 SELECTED TOPICS - DRAWING
AR 581 SELECTED TOPICS - PAINTING
AR 582 SELECTED TOPICS - ART METALS
AR 583 SELECTED TOPICS - SCULPTURE
AR 584 SELECTED TOPICS - PHOTOGRAPHY
AR 585 SELECTED TOPICS - CERAMICS
AR 586 SELECTED TOPICS - PRINTMAKING
AR 587 SELECTED TOPICS - GRAPHIC DESIGN
AR 588 SELECTED TOPICS - ILLUSTRATION
AR 589 SELECTED TOPICS - ART HISTORY

AR 590 PRACTICUM/INTERNSHIP (3-0-3). This course is designed primarily for students intending to teach at the college level. Assisting in the preparation and teaching of one or more studio courses; minimum of six contact hours per week required. PREREQ: Consent of instructor and Graduate Program Coordinator.

AR 593 THESIS (V-V-6). The thesis will consist of a written and visually documented presentation of the technical and historical developments within the student's area of concentration. The second phase will consist of a presentation of the student's art work (graduate exhibition) as it may relate to artists and art movements, both past and present. PREREQ: Graduate status.

AR 596 DIRECTED RESEARCH

AR 597 SPECIAL TOPICS

AR 598 SEMINAR IN ART (3-0-3)(S). The seminar course will address the areas of art criticism and self-evaluation through a historical and contemporary perspective. The student will research a topic, present an annotated bibliography, and present an oral report on the topic, utilizing visual material in the presentation. The student will then present a research paper concerning the topic. PREREQ: Graduate standing.

Master of Science in Geology

Department of Geosciences
Math/Geosciences Building, Room 225
Telephone 208 426-1581 or 426-1631
FAX 208 426-4061
http://earth.boisestate.edu
e-mail: cjnorth@boisestate.edu

Graduate Program Coordinator: C. J. Northrup
Department Chair: Claude Spinosa
Full Graduate Faculty: Warren Barrash, Paul R. Donaldson, Michael D. Knoll, Mitchell Lyle, James McNamara, Paul Michaels, John R. Pelton, Walter S. Snyder, Claude Spinosa, Craig M. White, Spencer H. Wood
Associate Graduate Faculty: C. J. Northrup, David Wilkins
Adjunct Graduate Faculty: Elton D. Bentley (Emeritus), William P. Clement, Thomas M. Clemo, Vladimir I. Davydov, Mary Donato, Virginia Gillerman, Kenneth M. Hollenbaugh (Emeritus), Verne Oberbeck, James Osiensky, Kurt L. Othberg, Tamra Schiappa, Mark Seyfried, Edward Squires, Charles J. Waag (Emeritus), Monte D. Wilson (Emeritus), James E. Zollweg

General Information

Boise State University offers studies leading to the M.S. degree in geology to students with a bachelor's degree in geology or a related discipline who are seeking to develop the capability for research or professional careers. All candidates for the M.S. in Geology at Boise State University must successfully complete and defend a thesis; usually the thesis is original research that involves field work. The department does not offer an option for the M.S. degree in Geology without a thesis. Students may include one or more fields in their studies and in their theses, such as biostratigraphy, economic geology, environmental geology, geomorphology, exploration geophysics, hydrogeology, paleontology, petrography and petrology of igneous rocks, stratigraphy and sedimentology, structural geology, shallow subsurface seismic studies and volcanic stratigraphy. University of Idaho courses in geohydrology are offered via video and live video link and may be counted towards the M.S. degree.

A cooperative agreement with Idaho State University provides students access to broader studies leading to a Master of Science degree in Geology. Boise State University students are encouraged to enroll in the ISU/BSU cooperative program and to attend Idaho State University for one semester or more, thereby enriching their graduate experience through course work and intellectual exchange with a larger faculty of greater professional diversity.

A partial list of general MS theses topics for which recent students have received financial support includes: Geohydrologic problems of southern Idaho; economic geology of Idaho and adjacent regions; structural geology of the Great Basin; sedimentology, stratigraphy and biostratigraphy of the Great basin with emphasis on Nevada; ammonoid and conodont biostratigraphy of Nevada; stratigraphy, sedimentology, paleontology and biostratigraphy of southern Russia and northern Kazakhstan; watershed hydrology, fluvial geomorphology, groundwater hydrology and groundwater-surface water interactions. These fields will continue to be areas of faculty research in the future and qualifying students interested in pursuing theses in these fields of research are encouraged to apply for information and financial support.

Students are encouraged to attach to the department's home page at: http://earth.boisestate.edu and to the home pages for research units with the department: the Center for Geophysical Research of the Shallow Subsurface (CGISS) and the Permian Research Institute (PRI).

Application and Admission Requirements

Application for admission may be made by graduates of accredited institutions holding a baccalaureate degree in geology or related discipline. Regular admission may be awarded to applicants who have earned a minimum grade point average of 3.0 during the last two years of academic work; admission will be based on grade point, GRE scores, and letters of recommendation. Continued enrollment in the program requires a minimum 3.0 grade point (B) average and satisfactory progress toward the degree.

Additional information may be obtained from the Geology Graduate Coordinator, Department of Geosciences, Boise State University, 1910 University Drive, Boise, ID 83725 or cjnorth@boisestate.edu or http://earth.boisestate.edu for the most up-to-date information. Information regarding the cooperative program may also be obtained from the Geology Graduate Coordinator, Department of Geology, Idaho State University.

Degree Requirements

Master of Science in Geology

Course Number and Title	Credits
Degree requirements for the Master of Science in Geology are the same as for the Graduate College. The student must complete a minimum of 30 credits, of which 20 or more are required to be at the 500 level.	
The following courses are mandatory for the first year in residence for all students: GEOL 597 Graduate Orientation.....1 GEOL 597 Graduate Field Geology.....1	2
Enrollment in Graduate Seminar is required each semester of all graduate students in residence; one credit may be applied towards graduation. GEOL 598 Graduate Seminar	1
A maximum of 6 graduate thesis credits may be applied towards graduation. GEOL 593 Thesis	6

(continued)

Master of Science in Geology (continued)	
The student, the major professor, and the thesis committee, determine the courses recommended for each student's area of specialization. Recent students have specialized in the following areas: Biostratigraphy; Economic Geology; General Regional Geology; Environmental Geology; Hydrogeology; Neotectonics; Sedimentology; Stratigraphy; Structural Geology.	21
TOTAL	**30**

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

GEOL — GEOLOGY

GEOL 403G ENGINEERING GEOLOGY (2-3-3)(S)(Field trip required). 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. Alternate years. PREREQ: GEOL 280, PHYS 102 or PHYS 211, GEOL 323, or PERM/INST.

GEOL 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 204.

GEOL 413G APPLIED HYDROGEOLOGIC CONCEPTS (3-0-3)(S). Application of modern theoretical concepts to the analysis of factors that control the movement of ground water. The theory of groundwater flow is presented in greater detail than is possible in an introductory course. PREREQ: GEOL 412, MATH 204.

GEOL 431G PETROLEUM GEOLOGY (2-3-3)(F)(Field trips)(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. PREREQ: GEOL 311, 314.

GEOL 450G GEOLOGY OF NATIONAL PARKS (3-0-3)(S). 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 103 (Alternate years.)

GEOL 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 460G VOLCANOLOGY (2-0-2)(F)(Field trip)(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. PREREQ GEOL 323.

GEOL 471G REGIONAL FIELD STUDY (1, 2, or 3 CR)(F/S/SU). 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 103 or PERM/INST.

GEOL 502 GREAT MYSTERIES OF THE EARTH (3-0-3)(F). The earth abounds with mysteries that are seemingly related to natural phenomena. Lost continents, UFO's, Loch Ness Monster, Bermuda Triangle, Big Foot, ancient astronauts, water witching, and other mysteries, both real and contrived as discussed in terms of evidence and interpretation in the context of natural laws and processes. Techniques of skeptical inquiry and the scientific method are applied to develop critical thinking. PREREQ: Graduate standing and PERM/INST.

GEOL 511 ADVANCED ENVIRONMENTAL GEOLOGY (3-0-3)(S). Land-use planning, techniques for investigation of surficial materials and water resources. Geologic hazards, surficial deposits and their engineering and hydrologic properties, ground and surface water, waste disposal. Term reports required, field trips required. PREREQ: GEOL 221 or PHYS 220.

GEOL 514 ADVANCED STRUCTURAL GEOLOGY (2-3-3)(F)(Alternate years). Geometric, kinematic and dynamic analysis of plutonic rocks and metamorphic tectonites. Structural elements in plutons, their formation and interpretation as indicators of the tectonic environment during emplacement. Mesoscopic and microscopic study of rock fabrics, the mechanisms and processes of their formation and deformation, and their use as kinematic and strain indicators. PREREQ: GEOL 310, GEOL 314, GEOL 323 and GEOL 324 or PERM/INST.

GEOL 516 ADVANCED TOPICS IN WATERSHED HYDROLOGY (3-0-3)(F)(Alternate years). This course is designed to investigate hydrologic topics in greater detail than is possible in an introductory hydrology class. Specific topics will depend on the students' interests and may include runoff generation, snow hydrology, watershed management, streamflow modeling, sediment transport, and chemical tracer application. PREREQ: GEOL 415/515.

GEOL 517 WATERSHED PROCESSES (3-0-3)(F). In this course we will investigate the theoretical and empirical foundations of physical processes that govern the morphology of watersheds focusing on hillslope and fluvial processes. Our objective is to extract basic physical concepts from laws and equations that are used to describe and model various geomorphic phenomena. The course will involve a mix of lectures, student led discussion, and fieldwork. PREREQ: GEOL 313, MATH 175, PHYS 211.

GEOL 518 PHYSICAL HYDROLOGY (3-0-3)(S). Hydrology is an interdisciplinary earth science that is concerned with the movement and occurrence of water on earth. In this course we will investigate surface hydrologic phenomena including precipitation, evapotranspiration, snow and snowmelt, streamflow, rainfall-runoff relations, and watershed hydrology. We will study the processes that drive the hydrologic cycle, and apply analytical techniques to solve water resource problems that are important to the earth scientist, water manager, and engineer. PREREQ: MATH 170, GEOL 101.

GEOL 523 ADVANCED IGNEOUS PETROLOGY (3-0-3)(S)(Odd Years). A study of igneous rocks with emphasis on their origin and the processes responsible for their diversity. Exercises will make use of the petrographic microscope and the departmental computer facilities. A field trip is required. PREREQ: GEOL 323, GEOL 324, CHEM 131.

GEOL 531 REGIONAL GEOLOGY OF NORTH AMERICA (3-0-3)(F/S). A systematic study of the geologic provinces of North America with special emphasis on geological relationships and tectonic

evolution. Each province is investigated in terms of its structural and geologic history and mineral resources. PREREQ: Graduate status or PERM/INST.

GEOL 561 EARTH SCIENCE TEACHING TECHNIQUES (3-0-3 or 4-0-4)(F/S). This course is a study of the objectives, methods, and materials of instruction in Earth Sciences. Emphasis will be placed on the preparation and presentation of lectures, laboratory exercises and field trips. This course provides the student with internship experience in the laboratory and lecture classroom. PREREQ: Graduate status or PERM/INST.

GEOL 571 GEOCHEMISTRY (3-0-3)(F/S). Chemical equilibrium applied to natural water systems. Oxidation and reduction in sedimentation and ore genesis, methods of exploration geochemistry, crystallization of magmas, ore-forming solutions, isotope geochemistry. Field trip required. PREREQ: GEOL 101, CHEM 133, MATH 204.

GEOL 593 THESIS (0-3 to 0-5). The scholarly pursuit of original work on a field or laboratory project or the formulation of new and logical interpretations of existing data collected through library research. A final report suitable for presentation at a meeting of Earth Science professionals is required. PREREQ: Admission to candidacy.

GO 596 DIRECTED RESEARCH (0-1 to 0-4). Field, laboratory or library research project. Students may work on an individual problem or select a problem from a list provided by the instructor. Weekly progress meetings, final report. PREREQ: PERM/INST.

SPECIAL TOPICS. Classes that deal with specialized topics and designed for small groups of students are offered frequently; recent examples include:

GEOL 597 MINERAL RESOURCES, GEOLOGY AND THE ENVIRONMENT
GEOL 597 PRINCIPLES OF SOIL SCIENCE
GEOL 597 RESEARCH TOPICS IN GEOTECTONICS
GEOL 597 APPLIED GEOHYDROLOGIC CONCEPTS
GEOL 597 ECONOMIC EVALUATION OF MINERAL RESOURCES
GEOL 597 BIOSTRATIGRAPHY, GRAPHIC CORRELATION
GEOL 597 TECTONIC EVOLUTION OF THE URAL MOUNTAINS
GEOL 597 AUTOCAD APPLICATIONS IN GEOLOGY
GEOL 597 ADVANCED STRATIGRAPHY
GEOL 597 CRUSTAL LITHOLOGY AND TECTONICS
GEOL 597 QUATERNARY GEOLOGY
GEOL 597 GRADUATE ORIENTATION
GEOL 597 GRADUATE FIELD GEOLOGY

GEOL 598 GRADUATE SEMINAR (0-1 to 0-3). The preparation and presentation of oral and written reports on topics in earth science and/or science education. Presentation of oral reports may take the form of debate. Preparation of visual aids and geologic illustrations will be emphasized. PREREQ: Admission to candidacy or PERM/INST.

Idaho State University Courses:

GEOL 648	Research Problems
GEOL 650	Thesis

University of Idaho Courses:

XY 502	Directed Study (Hydrology)
XY 569	Contaminant Hydrology
XY 577	Computer Applications in Geohydrology

Course descriptions for additional graduate courses are listed under the Master of Science in Education, Earth Science Emphasis and Master of Science in Geophysics.

Doctor of Philosophy in Geophysics

Department of Geosciences
Math/Geosciences Building, Room 225
Telephone 208 426-1631
FAX 208 426-4061
email: vgarrett@boisestate.edu

Graduate Program Coordinator: John R. Pelton
Department Chair: Claude Spinosa
Full Graduate Faculty: Warren Barrash, Paul R. Donaldson, Michael D. Knoll, Mitchell Lyle, James P. McNamara, Paul Michaels, John R. Pelton, Walter S. Snyder, Claude Spinosa, Craig M. White, Spencer H. Wood
Associate Graduate Faculty: C. J. Northrup, David Wilkins
Adjunct Graduate Faculty: Elton B. Bentley (Emeritus), William P. Clement, Thomas M. Clemo, Mary M. Donato, Virginia Gillerman, Kenneth M. Hollenbaugh (Emeritus), Mark Seyfried, Monte D. Wilson (Emeritus), James E. Zollweg

General Information

Boise State University offers a Doctor of Philosophy in Geophysics through the Department of Geosciences. The degree requires completion of a prescribed course of study in geophysics and an area of emphasis outside of geophysics, satisfactory performance on a comprehensive examination, and independent completion of original research that results in a publicly defended dissertation that contributes significantly to geophysical knowledge.

Graduate Teaching and Research Fellowships

Graduate fellowships including tuition and fee waivers are funded from three sources: appropriated state funds, endowments, and research grants and contracts. Applicants to the Ph.D. in Geophysics program who submit all documents required by the admission procedure by February 1 of any given year will be considered for a state appropriated or endowed graduate fellowship to start the following fall semester; notification of successful applicants will be during February and March. Information on graduate fellowships funded by research grants and contracts is available from the Coordinator of the geophysics doctoral program.

Graduate Program Committee

The Graduate Program Committee of the Department of Geosciences consists of the graduate program coordinators for geophysics, geology, and earth science education, plus the chair of the Department. The duties of the Graduate Program Committee are defined by the Department and are consistent with policies set by the University. These duties include development of recommendations for admission of prospective graduate students, decisions on transfer credits and required background courses, decisions on the award of departmental graduate fellowships and assistantships, and appointment of Supervisory Committees for graduate students.

Supervisory Committee

The Supervisory Committee is charged with general guidance of the doctoral student, including design and approval of the program of study, administration of the comprehensive examination, supervision of the dissertation research, and participation in the dissertation defense. The Supervisory Committee consists of a principal advisor who acts as chair, one member from the student's chosen area of emphasis outside of geophysics (see Credit Requirements below), and at least two additional members, all of whom must be members of the University regular or research faculty and must also be members of the Graduate Faculty. One or more additional members may be appointed when such appointments enhance the function of the Committee. In all cases, regular or research faculty members of the Department of Geosciences must constitute a majority of the Supervisory Committee.

Application and Admission Requirements

Applicants are required to have a Bachelor's or Master's degree in a physical science, engineering, computer science, or mathematics from an accredited college or university. Admission will be competitive and will be based on transcripts, professional references, scores on the general test of the Graduate Record Examination (GRE), and evaluation of a technical manuscript provided by the applicant as evidence of technical writing skills. Students whose native language is not English must submit a TOEFL score of 587 or higher for the written examination and 240 or higher for the computer-based examination. Application materials should be requested from the Coordinator, Geophysics Doctoral Program, Boise State University, 1910 University Drive, Boise, ID 83725, telephone (208) 426-3640 or email: jrp@cgiss.boisestate.edu.

Degree Requirements

Doctor of Philosophy in Geophysics

Course Number and Title	Credits
GEOPH 501 Properties and Processes in Geophysics I....4 GEOPH 502 Properties and Processes in Geophysics II....4	8
Geophysics elective courses approved by the supervisory committee and by the Coordinator of the geophysics doctoral program	18
Area of emphasis outside of geophysics	12
Additional courses in geophysics and/or area of emphasis	10
Subtotal	**48**
GEOPH 693 Dissertation (Pass/Fail)	18
TOTAL	**66**

Credit Requirements:
Courses applied to meet the 66-credit minimum requirement must be taken for a letter grade (A-F), except that GEOPH 693 Dissertation is initially graded IP (In Progress) and later graded P (Pass) or F (Fail) depending on the outcome of the dissertation defense. All geophysics electives must be graduate GEOPH courses with at least 12 credits at the 600 level. It is highly recommended that all geophysics graduate students take GEOPH 530 (Inversion Theory and Geophysical Applications) early in their program as one of their geophysics electives. Courses that comprise the area of emphasis outside of geophysics will typically be chosen from geology, engineering, computer science, or public policy, and must be approved by the Supervisory Committee. Courses taken to satisfy background requirements are not eligible to meet the credit requirements. On-campus graduate students are required to enroll for GEOPH 598 Graduate Seminar each and every semester it is offered but GEOPH 598 may not be applied to meet the geophysics elective requirement.

Comprehensive Examination:
The objective of the comprehensive examination is to judge depth and breadth of knowledge in geophysics and the area of emphasis. The examination is to be developed and administered by the Supervisory Committee. A student must take the comprehensive examination in the semester following completion of 36 course credits that are to be applied to the program requirements (exclusive of GEOPH 693 Dissertation but inclusive of transfer credits). The outcome of the examination is determined by the Supervisory Committee and must be one of the following: pass, conditional pass, or fail. A student who fails the comprehensive examination is dismissed from the Ph.D. program. A student who receives a conditional pass must satisfy scheduled conditions stipulated by the Supervisory Committee; failure to meet the conditions results in dismissal from the Ph.D. program.

Dissertation Requirements:
The dissertation must be the result of independent and original research by the student and must constitute a significant contribution to geophysical knowledge equivalent to multiple peer-reviewed publications. The style and format of the dissertation are to conform to the standards of the Department of Geosciences and the Graduate College.

Dissertation Defense:
A public defense of the dissertation is scheduled after the Supervisory Committee has reviewed a draft that is considered to be nearly a final version. The date of the defense is determined jointly by the Supervisory Committee and the student and must be consistent with any guidelines provided by the Graduate College. A Defense Committee is formed that consists of the following voting members: an appointed chair, the chair and members of the Supervisory Committee, and an external examiner. The chair of the Defense Committee is appointed by the Dean of the Graduate College and must be a regular member of the Graduate Faculty, but must not be the chair or a member of the Supervisory Committee. The external examiner is a faculty member from another university who is a recognized expert in the field of the dissertation research and is appointed to the Defense Committee by the Dean of the Graduate College. Attendance at the defense by the external examiner is not required, but a written evaluation of the dissertation and a pass or fail vote must be submitted by the external examiner to the chair of the Defense Committee at least 3 weeks prior to the defense. The written evaluation

provided by the external examiner is distributed to the other members of the Defense Committee at least 2 weeks before the defense. The chair of the Defense Committee conducts the defense according to the procedure established for the Department of Geosciences by the Graduate Program Committee. A majority vote is used to decide the outcome (pass or fail). In the event of a split vote, the Dean of the Graduate College will also cast a vote after consultation with the defense chair and the Supervisory Committee. A student who fails the defense may be permitted to try again but failure a second time will result in dismissal from the program.

Final Approval of the Dissertation:
If the defense is completed with a result of pass, the Supervisory Committee prepares a statement describing final requirements such as additions or modifications to the dissertation and any additional requirements such as archival of data. When these requirements have been met to the satisfaction of the Supervisory Committee, the approval page of the dissertation is signed by the members of the Committee.

Graduate College Requirements: The general requirements of the BSU Graduate College also govern the Doctor of Philosophy in Geophysics degree program.

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

GEOPH — GEOPHYSICS

The following G courses are considered background courses and cannot be applied toward the Ph.D. in Geophysics: GEOPH 303G, GEOPH 305G, GEOPH 308G, and GEOPH 340G.

GEOPH 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 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. Graduate students who desire more comprehensive study of a particular method are advised to enroll for GEOPH 555, GEOPH 560, or GEOPH 565 as appropriate. PREREQ: GEOPH 303-303G or PERM/INST.

GEOPH 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 305-305G or PERM/INST.

GEOPH 340G GEOPHYSICS FIELD CAMP (4 wks, 6 CR)(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 305-305G or PERM/INST.

GEOPH 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 305-305G or PERM/INST.

GEOPH 501 PROPERTIES AND PROCESSES IN GEOPHYSICS I (3-2-4)(F). Study of the physical processes that operate within the solid Earth and the subsurface properties that govern those processes. Emphasis on thermal processes and the dynamics of fluids. Required core class for all geophysics graduate students. PREREQ: GEOPH 303-303G, GEOL 412; or PERM/INST.

GEOPH 502 PROPERTIES AND PROCESSES IN GEOPHYSICS II (3-2-4)(S). Study of the physical processes that operate within the solid Earth and the subsurface properties that govern those processes. Emphasis on mechanical deformation and seismic and electromagnetic wave propagation. Required core class for all geophysics graduate students. PREREQ: GEOPH 501 or PERM/INST.

GEOPH 515 STRATIGRAPHIC INTERPRETATION OF SEISMIC DATA (3-0-3)(S). Seismic sequence and seismic facies analysis, isochronous reflections, seismic stratigraphy of depositional systems, sea level cycles, seismic modeling, hydrocarbon indicators, lithology from velocity and seismic amplitude variation with offset, use of shear waves and vertical seismic profiling. Interpretation project involving seismic modeling. PREREQ: GEOPH 465 or GEOPH 565.

GEOL 517 WATERSHED PROCESSES (3-0-3)(F). In this course we will investigate the theoretical and empirical foundations of physical processes that govern the morphology of watersheds focusing on hillslope and fluvial processes. Our objective is to extract basic physical concepts from laws and equations that are used to describe and model various geomorphic phenomena. The course will involve a mix of lectures, student led discussion, and fieldwork. PREREQ: GEOL 313, MATH 175, PHYS 211.

GEOL 518 PHYSICAL HYDROLOGY (3-0-3)(S). Hydrology is an interdisciplinary earth science that is concerned with the movement and occurrence of water on earth. In this course we will investigate surface hydrologic phenomena including precipitation, evapotranspiration, snow and snowmelt, streamflow, rainfall-runoff relations, and watershed hydrology. We will study the processes that drive the hydrologic cycle, and apply analytical techniques to solve water resource problems that are important to the earth scientist, water manager, and engineer. PREREQ: MATH 170, GEOL 101.

GEOPH 525 EARTHQUAKE SEISMOLOGY (3-0-3)(F). Earthquake source theory, waves from a point dislocation source in a radially symmetric Earth, reflection and refraction at a plane interface, surface waves, free oscillations, theory of the seismograph, interpretation of seismograms, travel-time curves, hypocenter determination, fault-plane solutions, magnitude, properties of the Earth's interior, seismotectonics and seismic hazards. Field and laboratory exercises. PREREQ: GEOL 101, MATH 333.

GEOPH 530 INVERSION THEORY AND GEOPHYSICAL APPLICATIONS (3-0-3)(S). Backus-Gilbert theory; objective functions and relation to distribution of measurements error; linear least squares including linearization of forward problem, eigenvalue decomposition, generalized inverse, statistics. Nonlinear optimization

including grid search, Monte Carlo method, iterative methods. Examples selected from geophysical applications. Computer laboratory exercises. PREREQ: GEOPH 301, MATH 301. Offered alternate years.

GEOPH 535 TECTONOPHYSICS (3-0-3)(F). Application of physics and mathematics to investigation of tectonic processes. Basic continuum mechanics, heat transfer, and fluid mechanics. Elastic flexure of the lithosphere, cooling of oceanic lithosphere, thermal and subsidence history of sedimentary basins, frictional heating on faults, thermal structure of subducted lithosphere, isostatic compensation, postglacial rebound, creep in rocks, mantle convection. Project and report required. PREREQ: PERM/INST.

GEOPH 540 ELECTROMAGNETIC AND SEISMIC WAVE PROPAGATION (3-0-3)(S). Derivation of wave equations and solutions in idealized media including layered media. Source effects. Attenuation in earth materials. Numerical computation of wave fields including finite-element and finite-difference methods. Computer laboratory exercises. PREREQ: GEOPH 301, MATH 333. Offered alternate years.

GEOPH 555 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 303-303G or PERM/INST.

GEOPH 560 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 303-303G or PERM/INST.

GEOPH 565 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 303-303G or PERM/INST.

GEOPH 575 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 305-305G, EE 222 or PERM/INST.

GEOPH 603 SURFICIAL PROCESSES (2-2-3)(F/S). Investigation of the fundamental physics of major geomorphic, hydrologic, and thermal processes operating at the surface of the Earth. The objective is to deduce basic physical behavior from mathematical laws and models used to describe various surficial phenomena. Some student-led discussion and field work required. PREREQ: GEOL 313, GEOPH 502; or PERM/INST.

GEOPH 610 GEOPHYSICAL METHODS IN GEOTECHNICAL ENGINEERING (2-2-3)(F/S). Application of geophysical methods to problems in geotechnical engineering including in situ measurement of the mechanical properties of soil and rock, depth and rippability of bedrock, prediction of seismic ground amplification, nondestructive testing of foundations and roadways, location of underground utilities, and detection of tunnels, caves, impending sinkholes or collapse features, and fracture zones. Scheduled offering based on student interest. PREREQ: GEOPH 305-305G, CX 360, GEOPH 530; or PERM/INST.

GEOPH 613 GEOPHYSICAL METHODS IN GROUNDWATER HYDROLOGY (2-2-3)(F/S). Application of geophysical methods to problems in groundwater hydrology including in situ estimation of aquifer parameters, evaluation of groundwater resources, delineation of thermal and chemical pollution of groundwater, and mapping of salt water intrusion. Scheduled offering based on student interest. PREREQ: GEOPH 305-305G, GEOL 412, GEOPH 530; or PERM/INST.

GEOPH 630 ESTIMATION OF EARTHQUAKE GROUND MOTION (2-2-3)(F/S). Procedures for estimation of earthquake ground motion for applications such as the siting and design of critical facilities, city and land use planning, building codes, and evaluation of insurance needs. Topics include seismicity, seismotectonic features, regional seismic attenuation, ground motion parameters, response spectra, local amplification, and estimation of uncertainty. Students interested in earthquake ground motion are also encouraged to consider GEOPH 610 as a related course. Scheduled offering based on student interest. PREREQ: GEOL 314, GEOPH 525; or PERM/INST.

GEOPH 633 CLIMATE CHANGE AND WATER RESOURCES (2-2-3)(F/S). Review of the current understanding of climate change with emphasis on the known causes and critical evaluation of historical and prehistoric data. Techniques for climate prediction and verification; common predictions of various climate models. Extension of climate predictions to impacts on groundwater resources. Scheduled offering based on student interest. PREREQ: PERM/INST.

GEOPH 650 DESIGN OF GEOPHYSICAL WASTE SITE CHARACTERIZATION PROGRAMS (2-2-3)(F/S). Application of design principles of geophysical characterization of sites for landfills and hazardous waste disposal. Discussion includes an introduction to governmental policies, procedures, and regulations. Scheduled offering based on student interest. PREREQ: GEOPH 305-305G, CX 320, GEOL 412, GEOPH 530; or PERM/INST.

GEOPH 653 DESIGN OF GEOPHYSICAL MONITORING SYSTEMS FOR SURFACE OR SUBSURFACE PROCESSES (2-2-3)(F/S). Application of design principles to in situ geophysical monitoring systems for time-dependent surface or subsurface processes such as slope instabilities and migration of contaminants in groundwater. Scheduled offering based on student interest. PREREQ: GEOPH 305-305G, GEOPH 502, GEOPH 530; or PERM/INST.

GEOPH 680 SELECTED TOPICS IN GEOPHYSICAL DATA ANALYSIS (2-2-3)(F/S). Theory and implementation of one or more methods of geophysical data analysis. Methods are chosen based on class interest from the large number of modern processing, modeling, and statistical methods. Scheduled offering based on student interest. PREREQ: GEOPH 530 or PERM/INST.

GEOPH 693 DISSERTATION.

Master of Science in Geophysics

Department of Geosciences
Math/Geosciences Building, Room 225
Telephone 208 426-1631
FAX 208 426-4061
email: vgarrett@boisestate.edu

Graduate Program Coordinator: John R. Pelton
Department Chair: Claude Spinosa
Full Graduate Faculty: Warren Barrash, Paul R. Donaldson, Michael D. Knoll, Mitchell Lyle, James P. McNamara, Paul Michaels, John R. Pelton, Walter S. Snyder, Claude Spinosa, Craig M. White, Spencer H. Wood
Associate Graduate Faculty: C. J. Northrup, David Wilkins
Adjunct Graduate Faculty: Elton B. Bentley (Emeritus), William P. Clement, Thomas M. Clemo, Mary M. Donato, Virginia Gillerman, Kenneth M. Hollenbaugh (Emeritus), Mark Seyfried, Monte D. Wilson (Emeritus), James E. Zollweg

General Information

Boise State University offers a Master of Science in Geophysics through the Department of Geosciences. The degree requires 30 total credits distributed as follows: 12 graduate geophysics course credits, 12 credits in approved science or engineering courses, and at least 6 thesis research credits leading to an approved thesis. The overall goal of the graduate geophysics program is to provide a balanced education in the following areas:

- geophysical theory and methods including the quantification of error and resolution;
- problem definition, characteristics of an acceptable scientific solution, and an understanding of the effort required to reach an acceptable solution;
- the interrelationship of geophysics with other scientific and engineering disciplines;
- oral and written technical communication;
- project management and teamwork;
- an introduction to the geoscience profession beyond the classroom including the establishment of professional contacts.

Achievement of these educational objectives requires that a graduate student be exposed to classroom and laboratory instruction, thesis research, seminars, field trips, preparation of proposals and papers, presentations at professional meetings, short-term work assignments on sponsored projects, and interaction with a wide variety of faculty, research staff, students, and off-campus scientists and engineers. Current research emphases at BSU include the following:

- applications of surface and borehole geophysical methods to hydrogeological, environmental, and engineering problems;
- geophysical measurement of the engineering properties of earth materials;
- determination of the relationship between geophysical and hydrological parameters;
- use of marine sedimentology and borehole geophysics to study the interaction between the oceans and continental climate;
- investigation of physical process dynamics during cold season flooding.

The geophysics program is well equipped with modern digital field instrumentation and computational facilities, and is closely tied to the Center for Geophysical Investigation of the Shallow Subsurface (CGISS) at BSU.

The BSU Master of Science program in geophysics interacts cooperatively with the University of Idaho (UI) Master of Science program in geophysics through the joint listing of graduate geophysics courses, the application of BSU graduate geophysics courses for UI credit, and the application of UI graduate geophysics courses for BSU credit. Cooperation is extended to Idaho State University (ISU) in that up to 12 credits earned in approved courses at ISU can be applied to a Master of Science in Geophysics at BSU or UI. In addition, faculty at BSU, UI, and ISU may form joint supervisory committees when expertise from outside of the student's resident institution is judged to be beneficial. These cooperative efforts by BSU, UI, and ISU add flexibility and geographic accessibility to graduate education in geophysics within Idaho.

Graduate Teaching and Research Fellowships

Graduate fellowships including tuition and fee waivers are funded from three sources: appropriated state funds, endowments, and research grants and contracts. Applicants to the M.S. Geophysics program who submit all documents required by the admission procedure by February 1 of any given year will be considered for a state appropriated or endowed graduate fellowships to start the following fall semester; notification of successful applicants will be during February and March. Information on graduate fellowships funded by research grants and contracts is available from the Coordinator of the geophysics graduate program.

Supervisory Committee

Each admitted student will be assigned a Supervisory Committee whose purpose is to design the program of courses, guide the student's research, conduct the thesis defense, and approve the final thesis. The Supervisory Committee consists of at least three members: a chair from BSU who takes on the primary advising role, and at least two members chosen in any combination from BSU, UI, ISU, or other institutions (selection based on a direct interest in the student's research). The Coordinator of the geophysics graduate program works closely with each Supervisory Committee and will serve as temporary advisor to each new student until a Supervisory Committee can be assigned.

Application and Admission Requirements

Applicants should have a B.S. or equivalent degree from an accredited institution in one of the following fields: geophysics, geology, hydrology, physics, chemistry, mathematics, or engineering. Evaluation for admission requires three personal references, transcripts from all colleges and universities attended, and scores on the GRE General Test. Students whose native language is not English must submit a TOEFL score of 587 or higher for the written examination and 240 or higher for the computer-based examination. A copy of a report resulting from a previous university course, professional position, or research experience is also requested as evidence of the applicant's ability to complete a significant project and write an acceptable scientific report. Preference is given to those applicants whose records indicate a high probability for successful completion of publishable graduate research. Application materials should be requested from the Coordinator, Geophysics Graduate Program, Boise State University, 1910 University Drive, Boise, ID 83725, telephone (208) 426-3640 or email: jrp@cgiss.boisestate.edu.

Degree Requirements

Master of Science in Geophysics	
Course Number and Title	**Credits**
Credit Requirements: The Master of Science in Geophysics requires 30 semester credits distributed as follows:	
A. GEOPH 501 Properties and Processes in Geophysics I	4
B. GEOPH 502 Properties and Processes in Geophysics II	4
C. Elective courses approved by the supervisory committee and by the Coordinator of the geophysics graduate program (at least 6 credits must be at the GEOPH 500-level or GEOPH 600-level).	16
D. GEOPH 593 Thesis (Pass/Fail)	6
TOTAL	**30**

Credit Requirements:
All 30 credits must be taken for a letter grade, except for GEOPH 593 Thesis credit which will be graded Pass/Fail. On-campus geophysics graduate students are required to take GEOPH 598 Graduate Seminar for a letter grade each and every semester it is offered. Credit for GEOPH 598 does not count toward the total degree requirement of 30 credits. Transfer credits may not be used for requirements A, B, or D. A maximum of 9 transfer credits may be applied to meet requirement C except that up to 12 credits of requirement C may be satisfied with transfer credits from UI and/or ISU. Certain courses are ineligible for requirement C including courses applied to a previously obtained degree, courses used to meet admission requirements, and courses required to remedy background deficiencies.

The purpose of requirement C is to provide an opportunity for elective courses within geophysics or in an associated field of science or engineering; these are often courses which are appropriate to a student's thesis or future employment goals. In all cases, the courses applied to meet requirement C must be approved by the student's supervisory committee and by the Coordinator of the geophysics graduate program, and the majority of the 30-credit total requirement (i.e., at least 16 credits) must be earned in residence at BSU.

Thesis Requirements:
A thesis representing research of sufficient quality to warrant publication in a peer-reviewed journal is required of all candidates for the Master of Science in Geophysics. Actual publication is not required, but is held out as a goal for all graduate students. The research results must be presented at a formal public defense, and the final written thesis must be approved by the supervisory committee, by the Coordinator of the geophysics graduate program, and by the Dean of the Graduate College. In order to provide sufficient time for thorough evaluation of thesis research, a student should allow 3-6 months between preparation of the first draft of the thesis and the day of the formal defense. Frequent communication between the student, the supervisory committee, and the Coordinator is essential throughout this period.

Graduate College Requirements: The general requirements of the BSU Graduate College also govern the Master of Science in Geophysics degree program.

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

GEOPH — GEOPHYSICS

The following G courses are considered background courses and cannot be applied toward the M.S. in Geophysics: GEOPH 303G, GEOPH 305G, GEOPH 308G, and GEOPH 340G.

GEOPH 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 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. Graduate students who desire more comprehensive study of a particular method are advised to enroll for GEOPH 555, GEOPH 560, or GEOPH 565 as appropriate. PREREQ: GEOPH 303-303G or PERM/INST.

GEOPH 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 305-305G or PERM/INST.

GEOPH 340G GEOPHYSICS FIELD CAMP (4 wks, 6 CR)(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 305-305G or PERM/INST.

GEOPH 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 305-305G or PERM/INST.

GEOPH 515 STRATIGRAPHIC INTERPRETATION OF SEISMIC DATA (3-0-3)(S). Seismic sequence and seismic facies analysis, isochronous reflections, seismic stratigraphy of depositional systems, sea level cycles, seismic modeling, hydrocarbon indicators, lithology from velocity and seismic amplitude variation with offset, use of shear waves and vertical seismic profiling. Interpretation project involving seismic modeling. PREREQ: GEOPH 465 or GEOPH 565.

GEOL 517 WATERSHED PROCESSES (3-0-3)(F). In this course we will investigate the theoretical and empirical foundations of physical processes that govern the morphology of watersheds focusing on hillslope and fluvial processes. Our objective is to extract basic physical concepts from laws and equations that are used to describe and model various geomorphic phenomena. The course will involve a mix of lectures, student led discussion, and fieldwork. PREREQ: GEOL 313, MATH 175, PHYS 211.

GEOL 518 PHYSICAL HYDROLOGY (3-0-3)(S). Hydrology is an interdisciplinary earth science that is concerned with the movement and occurrence of water on earth. In this course we will investigate surface hydrologic phenomena including precipitation, evapotranspiration, snow and snowmelt, streamflow, rainfall-runoff relations, and watershed hydrology. We will study the processes that drive the hydrologic cycle, and apply analytical techniques to solve water resource problems that are important to the earth scientist, water manager, and engineer. PREREQ: MATH 170, GEOL 101.

GEOPH 525 EARTHQUAKE SEISMOLOGY (3-0-3)(F). Earthquake source theory, waves from a point dislocation source in a radially symmetric Earth, reflection and refraction at a plane interface, surface waves, free oscillations, theory of the seismograph, interpretation of seismograms, travel-time curves, hypocenter determination, fault-plane solutions, magnitude, properties of the Earth's interior, seismotectonics and seismic hazards. Field and laboratory exercises. PREREQ: GEOL 101, MATH 333.

GEOPH 530 INVERSION THEORY AND GEOPHYSICAL APPLICATIONS (3-0-3)(S). Backus-Gilbert theory; objective functions and relation to distribution of measurements error; linear least squares including linearization of forward problem, eigenvalue decomposition, generalized inverse, statistics. Nonlinear optimization including grid search, Monte Carlo method, iterative methods. Examples selected from geophysical applications. Computer laboratory exercises. PREREQ: GEOPH 301, MATH 301. Offered alternate years.

GEOPH 535 TECTONOPHYSICS (3-0-3)(F). Application of physics and mathematics to investigation of tectonic processes. Basic continuum mechanics, heat transfer, and fluid mechanics. Elastic flexure of the lithosphere, cooling of oceanic lithosphere, thermal and subsidence history of sedimentary basins, frictional heating on faults, thermal structure of subducted lithosphere, isostatic compensation, postglacial rebound, creep in rocks, mantle convection. Project and report required. PREREQ: PERM/INST.

GEOPH 540 ELECTROMAGNETIC AND SEISMIC WAVE PROPAGATION (3-0-3)(S). Derivation of wave equations and solutions in idealized media including layered media. Source effects. Attenuation in earth materials. Numerical computation of wave fields including finite-element and finite-difference methods. Computer laboratory exercises. PREREQ: GEOPH 301, MATH 333. Offered alternate years.

GEOPH 555 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 303-303G or PERM/INST.

GEOPH 560 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 303-303G or PERM/INST.

GEOPH 565 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 303-303G or PERM/INST.

GEOPH 575 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 305-305G, EE 222 or PERM/INST.

Graduate students in the Master of Science program in Geophysics may also enroll for GEOPH 600-level courses (see courses listed under Doctor of Philosophy in Geophysics).

UoI Graduate Course Offerings

Geoph 520	Exploration Geophysics	3
Geoph 521	Mining Geophysics	3
Geoph 523	Seismic Stratigraphy	3

Master of Health Science

College of Health Sciences
Health Science Riverside Building, Room 123
Telephone 208 426-2217
FAX 208 426-2199
http://www.boisestate.edu/health/
e-mail: jgirvan@boisestate.edu

Associate Dean and Graduate Program Director:
James Girvan
Full Graduate Faculty: Les Alm, Conrad Colby, John Freemuth, James Girvan, Richard Kinney,James Munger, Sara LaRiviere, Elaine Long, Judith Murray, David Patton, Larry Reynolds, Robert Rychert, Gary Shook, Caile Spear, Mark Snow, Hilary Straub, James Taylor, James Weatherby, Stephanie Witt
Associate Graduate Faculty: Rudy Andersen, Margaret Downey, Pamela Springer, Patricia Taylor, Sarah Toevs
Adjunct Graduate Faculty: Christine Hahn, Margaret Henbest, Lyla Hill, Galen Louis, Alison Miller, Joanne Mitten, Richard Olsen, Linda Powell, Kurt Brown Stevenson, Nancy Van Maren, Pamela Weinberg

General Information

The Master of Health Science (MHS) degree program is designed primarily for the working health professional employed in state and local health agencies, health care institutions, and in private practice. The program, with its areas of emphasis in health policy, environmental health, substance abuse, general health research, health promotion, and health services leadership prepares health professionals to be more effective as advocates, administrators and critics of our health delivery systems. It is designed to serve the working professional without interrupting their employment, yet meet the necessary standards for graduate level work.

Although the degree is administered by the College of Health Sciences, graduate faculty are drawn from several programs across campus, including Public Affairs, Economics, Business, Kinesiology, Sociology, Psychology, and Biology. The Master of Public Administration (MPA) program, with lead responsibility in the area of public policy, is a key partner in the health policy area of concentration, while the Master of Business Administration (MBA) provides added focus in the health services leadership emphasis area.

Application and Admission Requirements

To be considered for admission to the MHS program with regular status, an applicant must satisfy Graduate College requirements and program requirements in the order listed below:

I. Apply for admission to Graduate College.
   A. Send Application for Admission and $20 application fee to Graduate Admissions Office.
   B. Request official transcripts from each institution previously attended be sent directly to the Graduate Admissions Office.
   C. Request Graduate Record Exam (GRE), Miller Analogy Test (MAT), or Graduate Management Admission Test (GMAT) scores be sent to Graduate Admissions Office.

Although the requirements of the BSU Graduate College also govern the MHS degree program, the Certificate of Admission to enroll in graduate courses at BSU does not guarantee admission into the MHS program.

II. Apply for admission to Master of Health Science (MHS) program.
   A. Application procedure.
      1. Submit letter of interest and curriculum vita or biographical sketch to MHS Program Director in the College of Health Sciences.
      2. Request official transcripts from each institution attended be sent directly to MHS Program Director.
      3. Request three (3) letters of recommendation (two of which must be academic letters of reference) be sent directly to MHS Program Director. For candidates whose academic record predates the application by five years or more, letters of recommendation may be submitted by supervisors.
   B. Admission requirements.
      1. Admission to BSU Graduate College.
      2. Education and work experience:
         Baccalaureate degree from an accredited college or university in a health-related field;
         and At least one year experience in environmental health, health care, substance abuse or financing and administration of health care or other organizations providing hands-on experience with health policy/program development and implementation;
         or Baccalaureate degree in another field and three or more years experience in environmental health or health care, substance abuse, or financing and administration, or other organizations providing hands-on experience with health policy or program development and implementation.
      3. Required test scores.
         Applicants are required to submit scores from one of three exams: A minimum combined score of 1000 on the verbal and quantitative portions of the GRE is required. Minimum acceptable score on the GMAT is 475 and a minimum predictive score of 50 is required on the MAT.
      4. Grade point average of 3.00 during the last sixty hours of undergraduate course work.
      5. Prerequisites.
         The student must provide evidence to the MHS Program Director or individual course instructors that necessary prerequisites are met.

6. A personal interview may be required.

Students not meeting the above requirements may be admitted to the program on a provisional status. Applications of students selecting the health policy area of concentration must be approved by both the MHS Program Director and the MPA Program Director.

Graduate Assistantships

Graduate assistantships covering tuition and fee waivers may be available through research grants and contracts. Contact the MHS director for information on assistantships which may be available from these sources.

Degree Requirements

A minimum of 33 credits is required for graduation (excluding internship credits). The MHS student who attends full time will normally be enrolled for a two-year sequence including summers. Typically, however, students maintain their current employment positions and attend the program part time, thereby extending the length of time required to obtain the degree.

The curriculum (33-36 credits) is comprised of required core courses of 15 credits with an additional 18-21 credits of required area of concentration courses, a thesis, project, or case study, and elective courses. The student, counseled by a graduate committee faculty member or the MHS Program Director, selects the elective courses. Electives may come from throughout BSU. Selected courses are also available from Idaho State University's Master of Public Health program. In order to enroll in required courses, students must first be admitted to the MHS program or obtain permission of the Program Director. No more than 9 credits of 300-400G courses will count toward the MHS degree.

Master of Health Science Graduate Core

Course Number and Title	Credits
MHLTHSCI 505 Health Science Inquiry.....2 MHLTHSCI 520 Health Care Systems Organization and Administration .....2 MHLTHSCI 535 Ethics of Health Policy.....2 MHLTHSCI/KINES 552 Statistical Methods in Exercise and Sport.....3 MHLTHSCI 555 Program Evaluation in the Health Sciences.....3 MHLTHSCI 579 Applications in Epidemiology 2	15
Note: In addition to the core health science courses noted above, completion of a thesis, project, or case study is required. See specific emphasis area listings for course and credit requirements related to that area of study.	

Master of Health Science, Environmental Health

Course Number and Title	Credits
MHS Graduate Core	15
Select 9 credits from the following: MHLTHSCI 510 Advanced Environmental Health..3 MHLTHSCI 560 Risk Management .....3 MHLTHSCI 570 Public Health Promotion/ Education.....3 PUBADM 541 Environmental Regulatory Policy and Administration .....3 PUBADM 542 Science, Democracy & Environment ..3	9
In addition, students need one 3 credit elective course and 6 credits of thesis or project or 12 credits of electives for a case study option.	9-12
TOTAL	**33-36**
Note: All applicants for the environmental health emphasis must have met the science requirements for a bachelor's degree in environmental health. Persons who have no experience in environmental health will also be required to take MHLTHSCI 590 Practicum.	

Master of Health Science, General Research

Course Number and Title	Credits
MHS Graduate Core	15
SOC 500 Advanced Social Statistics.....3 SOC 502 Qualitative Social Research Methods .....3 MHLTHSCI 560 Risk Management in the Health Sciences .....3 MHLTHSCI 570 Public Health Promotion & Education.....3	12
In addition, students need 6 credits of thesis/project or 9 credits of elective course work for the case study option.	6-9
TOTAL	**33-36**

Master of Health Science, Health Policy

Course Number and Title	Credits
MHS Graduate Core	15
PUBADM 500 Administration in the Public Sector.....3 PUBADM 501 Public Policy Process .....3 PUBADM 502 Organization Theory.....3 ECON 440G Health Economics .....3 MHLTHSCI 550 Current Issues in Health Policy.....3	15
In addition, students need 4 credits of thesis/project or 6 credits of elective course work for the case study option.	4-6
TOTAL	**34-36**

Master of Health Science, Health Promotion	
Course Number and Title	**Credits**
MHS Graduate Core	15
MHLTHSCI 550 Current Issues in Health Policy ..3 MHLTHSCI 570 Public Health Promotion & Education.....3 PSYC 331G The Psychology of Health.....3 SOC 502 Qualitative Social Research Methods ...3	12
In addition, students need 6 credits of thesis/project or 9 credits of elective course work for the case study option.	6-9
TOTAL	**33-36**
Note: Students with no prior experience in health promotion will be required to take MHLTHSCI 590 Practicum.	

Master of Health Science, Health Services Leadership	
Course Number and Title	**Credits**
MHS Graduate Core	15
MBA 516 Law for Managers.....3 MBA 517 Accounting for Managers.....3 MHLTHSCI 522 Management for Health Professionals .....3 MHLTHSCI 525 Supervisory Leadership.....3	12
In addition, students need 6 credits of thesis/project or 9 credits of elective course work for the case study option.	6-9
TOTAL	**33-36**
Note: Persons who have no experience in health services leadership will also be required to take MHLTHSCI 527 Supervisory Leadership Internship.	

Master of Health Science, Substance Abuse	
Course Number and Title	**Credits**
MHS Graduate Core	15
MHLTHSCI 513 Advanced Assessment of Alcohol/Drug Problems .....3 MHLTHSCI 544 Alcohol/Drug Abuse & the Family .....3 MHLTHSCI 545 Foundations of Chemical Dependency .....3 MHLTHSCI 549 Counseling Techniques for Alcohol and Drug 3	12
In addition, students need 6 credits of thesis/project or 9 credits of elective course work for the case study option.	6-9
TOTAL	**33-36**

Health Professions Internship

Students are expected to have work experience in some part of environmental health, health care delivery, substance abuse, or financing and administration of health care providing hands-on experience with health policy/program development and implementation issues. Applicants with less than one year work experience must complete a health professions internship. The student, in consultation with her/his graduate committee, will identify the appropriate internship experiences.

Comprehensive Examination

In fulfillment of the MHS degree requirements, students must take a comprehensive exam. The exam takes place following completion of the course work and has both a written and oral defense component.

Thesis/Project/Case Study Options

The thesis, or project provides Health Science graduate students an opportunity to consolidate the knowledge and skills gained during their graduate studies and to carry out an independent scholarly inquiry of a health science topic. Total credits for thesis or project vary from 4 to 6 and will be determined by the student's committee. The case study option may be created in lieu of a thesis or project by completing additional elective credits and addressing a case study designed by faculty teaching in the student's area of emphasis. No student may sign up for any of the options until successfully completing MHLTHSCI 505 Health Science Inquiry, MHLTHSCI 555 Program Evaluation in the Health Sciences, and being advanced to candidacy following completion of at least 18 credits of selected course work.

Graduate Committee

Students admitted with regular or provisional admission status will be appointed a graduate committee whose purpose is to establish, with the student, a program of study and internship requirements; to guide the student's thesis or project; to conduct the thesis/project defense; to approve the final thesis/project; and to administer the comprehensive examination (written and oral). The graduate committee consists of at least three individuals, including a chair who assumes the role of graduate advisor and at least two other committee members from two different departments. The committee must be established no later than advancement to candidacy.

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

BIOL — BIOLOGY

BIOL 415G APPLIED AND ENVIRONMENTAL MICROBIOLOGY (3-3-4)(S). Microbial populations and processes in soil and water. Water and food-borne pathogens. Microbiological and biochemical methods of environmental assessment. PREREQ: BIOL 303, PERM/INST.

BIOL 501 BIOMETRY (4-0-4)(F). An application of statistical methods to problems in the biological sciences. Basic concepts of

hypothesis testing; estimation and confidence intervals; t-tests and chi-square tests. Linear and nonlinear regression theory and analysis of variance. Techniques in multivariate and nonparametric statistics. PREREQ: MATH 111 or equivalent, or PERM/INST.

ECON — ECONOMICS

ECON 440G HEALTH ECONOMICS (3-0-3)(S). Examines the economics and ethics of health and the health care delivery system. Comparisons will be made to the systems in other countries. The role of information and incentives in the system will be considered. PREREQ: ECON 205, Admission to MHS program, or PERM/PROGRAM DIRECTOR.

ENVHLTH — ENVIRONMENTAL HEALTH

ENVHLTH 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 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.

MBA — MASTER OF BUSINESS ADMINISTRATION

MBA 516 LAW FOR MANAGERS (3-0-3). Explores the history and development of the partnership and corporate forms of business organization and the legal environment which creates and regulates a manager's duties toward the corporation, employees, shareholders, and members of the general public.

MBA 517 ACCOUNTING FOR MANAGERS (3-0-3). Provides a working knowledge of financial and managerial accounting tools, techniques and procedures.

MBA 529 MARKETING MANAGEMENT (3-0-3). Covers activities and models used in marketing, identifying and interpreting buyers' needs, market segmentation, and designing a balanced marketing program.

MHLTHSCI — MASTER OF HEALTH

MHLTHSCI 505 HEALTH SCIENCE INQUIRY (2-0-2)(F/S). Basic inquiry into the history of modern health science research and the scientific method. Problem solving strategies and methodologies for research and study will be discussed. Students will each develop a prospectus of study. The course is to be completed before a project or thesis is undertaken. PREREQ: Statistics and admission to MHS program or PERM/INSTR.

MHLTHSCI 510 ADVANCED ENVIRONMENTAL HEALTH (3-0-3) (F/S). As a review for the practicing professional and foundation for the recent graduate, discussion will focus on current issues in environmental health management. The course will provide an overview of basic concepts of water quality management, food protection, solid and hazardous waste management, vector and occupational hazard control and others, and will emphasize effective management and decision-making models. PREREQ: Admission to MHS program or PERM/INSTR.

MHLTHSCI 513 ADVANCED ASSESSMENT OF ALCOHOL/ DRUG PROBLEMS (3-3-4)(S). Clinical application of concepts and principles presented in the undergraduate courses. Students will be required to supervise and appraise the critical assessments of two or more undergraduate students for the duration of the semester. PREREQ: HLTHST 415.

MHLTHSCI 515 OCCUPATIONAL SAFETY & HEALTH (2-3-3) (F/S). 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. The course is taught concurrently with an undergraduate session, with additional course work and/or projects required of graduate students. PREREQ: Admission to MHS program and one year each undergraduate physics and organic chemistry, or PERM/INSTR.

MHLTHSCI 517 PRINCIPLES OF TOXICOLOGY (2-0-2)(F/S). An examination of the absorption, distribution, and excretion of toxicants in humans and 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. The course is taught concurrently with an undergraduate session, with additional course work and/or projects required of graduate students. PREREQ: Admission to MHS program and one year each undergraduate chemistry and biology for science majors, or PERM/INSTR.

MHLTHSCI 520 HEALTH CARE SYSTEMS ORGANIZATION AND ADMINISTRATION (3-0-3)(F). Examines the history, organization, and effectiveness of United States health care and public health systems. Topics will include the underlying constructs of health, the structure of the industry, funding for health care, and the role of managers and personnel in the system. PREREQ: Admission to MHS program or PERM/PROGRAM DIRECTOR.

MHLTHSCI 522 MANAGEMENT FOR HEALTH PROFESSIONALS (3-0-3)(F/SU). In-depth discussion of management strategies as they apply to health care, with emphasis on communication, program planning, organization, staff development, program coordination, and evaluation of results.

MHLTHSCI 525 SUPERVISORY LEADERSHIP (3-0-3)(F/SU). An overview of various approaches to leadership, authority, motivation, adaptation, and organizational conflict as they relate to the health care supervisor's role in accomplishing organizational goals and objectives.

MHLTHSCI 527 SUPERVISORY LEADERSHIP INTERNSHIP (3-0-3)(F/S/SU). Actual hands-on experience in operational health facilities, health education units, health promotion activities, consulting agencies, state health agencies, or similar health-related facility. Persons currently employed in a supervisory capacity are not eligible to take this course for credit. PREREQ: MHLTHSCI 522.

MHLTHSCI 530 DEVELOPING INSERVICE EDUCATION (3-0-3) (F/S/SU). Developing, presenting, and evaluating inservice and continuing education programs to professional peers and subordinates in traditional and non-traditional health care settings. Includes Development of Instructional Design Exercise (INDEX) and group presentations.

MHLTHSCI 535 ETHICS AND HEALTH POLICY (2-0-2)(S). Systematic examination of ethics as it relates to decision making in health policy. Discussion includes the moral issues of health care quality, right to life and right to death. PREREQ: Admission to MHS Policy program or PERM/INSTRUCTOR.

MHLTHSCI 540 HEALTH INFORMATION MANAGEMENT (3-0-3)(S). The use of health information systems as a management tool in health policy and the impact of computer information systems on the structure and function of health care organizations, including administrative research to support decision making and problem solving using local and national computer data networks. PREREQ: Statistics and PERM/INSTRUCTOR.

MHLTHSCI 544 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.

MHLTHSCI 545 FOUNDATIONS OF CHEMICAL DEPENDENCY (3-0-3)(F/S). Cross listed COUN 545. An overview of the pharmacological and physiological effects of chemical dependency. Special attention is given to how substance abuse impacts brain chemistry, and how brain chemistry impacts substance abuse. This course may only be taken for MHLTHSCI or COUN. PREREQ: PERM/INST.

MHLTHSCI 548 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.

MHLTHSCI 549 COUNSELING TECHNIQUES FOR CHEMICAL DEPENDENCY (3-0-3)(F/S). (Cross-listed CD 510.) A study of counseling techniques and practices used in dealing with people of all ages who are chemically dependent. Special attention will be paid to the impact of chemical dependency in family members and counseling strategies for adolescents. This course may only be taken for either MHLTHSCI or COUN, but not both.

MHLTHSCI 550 CURRENT ISSUES IN HEALTH POLICY (3-0-3)(F/S). Examines current issues in health care policy in the United States health care system. The structure, administration and financing of the health care system are reviewed and recent changes and their effects on cost, quality, and access to health care are discussed. Some attention is given to health policy issues in other countries as they influence and impact policy in the United States. PREREQ: Admission to MHS program or PERM/INST.

MHLTHSCI 552 STATISTICAL METHODS IN EXERCISE AND SPORT (3-0-3)(F,SU). An introduction to statistical techniques utilized in the treatment of data in the motor behavior area. The techniques to be covered include measures of central tendency and variability, correlation measures, probability, analysis of variance, and regression analysis. Cross listed with KINES 552. PREREQ: Completion of an undergraduate statistics or measurement course.

MHLTHSCI 555 PROGRAM EVALUATION IN HEALTH DELIVERY SETTINGS (3-0-3)(S). Topics include evaluation overview, models, and evaluative study objectives, methodological design, interpretation of data, and final report preparation. The course includes a thorough review of statistics and sampling as they apply to program evaluation methodologies. PREREQ: Undergraduate statistics, MHLTHSCI 505 and admission to MHS program, or PERM/INST.

MHLTHSCI 560 RISK MANAGEMENT IN THE HEALTH SCIENCES (3-0-3)(F). Critical examination of risk theory and strategies to mitigate or prevent that risk. Topics of discussion will include assessment of risk, hazards and vulnerabilities, cost-benefit analysis, insurance, disaster management, and risk communication. PREREQ: Admission to MHS program or PERM/INST.

MHLTHSCI 564 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART I (3-0-3)(F). Emphasis on screening and assessment tools/procedures for substance abuse. Application of current interventions and screening processes. Legal, social, ethical, and health implications will be investigated.

MHLTHSCI 565 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART II (3-0-3)(S). Application of concepts and principles presented in Part I. Special emphasis is placed on case management techniques. Continued investigation of legal, social, ethical, and health implications. PREREQ: MHLTHSCI 564 or PERM/INST.

MHLTHSCI 566 COMPLEMENTARY & ALTERNATIVE THERAPIES (2-0-2)(F/S). An exploration of the ethical, legal and policy issues surrounding non-conventional medical practices. Discussion on current research of efficacy and consumer acceptance will accompany clinical demonstrations of selected modalities, such as acupuncture and massage therapy.

MHLTHSCI 570 PUBLIC HEALTH PROMOTION AND EDUCATION (3-0-3)(F/S). A critical examination of the behavior, actions, and practices that influence the promotion of community-wide health, with an emphasis on those concepts of health education that assist in effecting changes in lifestyle. Discussion will also include health promotion and education policy and planning, needs assessment, methods and materials, and curriculum development for a broad range of public beneficiaries. PREREQ: Admission to MHS program or PERM/ INST. Cross-listed with PE 570.

MHLTHSCI 579 APPLICATIONS IN EPIDEMIOLOGY (2-0-2)(S). Facilitates an epidemiological approach to problem solving in the health sciences. Emphasizes the role epidemiology plays in disease prevention and health promotion. PREREQ: HLTHST 480 or equivalent.

MHLTHSCI 590 PRACTICUM/INTERNSHIP (0-V-3).

MHLTHSCI 591 PROJECT (0-V-4).

MHLTHSCI 593 THESIS (0-V-6).

MHLTHSCI 596 DIRECTED RESEARCH (0-V-3).

MHLTHSCI 597 SPECIAL TOPICS (0-V-3).

MHLTHSCI 598 SEMINAR IN HEALTH POLICY (2-V-2).

PUBADM — PUBLIC AFFAIRS

PUBADM 500 ADMINISTRATION IN THE PUBLIC SECTOR (3-0-3)(F/S). Designed to introduce students to the broad field of public administration at the graduate level. The course surveys a number of important issues in contemporary public administration, including an emphasis on political, legal, economic and social institutions, and processes. PREREQ: Admission to MHS program or PERM/PROGRAM DIRECTOR.

PUBADM 501 PUBLIC POLICY PROCESS (3-0-3)(S). Process of policymaking both within an agency and within the total governmental process, emphasizing policy and program planning, policy implementation and the value system of administrators. PREREQ: Admission to MHS program or PERM/PROGRAM DIRECTOR.

PUBADM 502 ORGANIZATIONAL THEORY (3-0-3)(F/S). Theories of organization behavior and management, with special attention given to public sector organizations. Issues and problems related to the nonprofit sector will also be addressed. PREREQ: Admission to MHS program or PERM/PROGRAM DIRECTOR.

PUBADM 540 NATURAL RESOURCE AND ENVIRONMENTAL POLICY AND ADMINISTRATION (3-0-3)(F/S). Examines the major issues, actors, and policies in the area of natural resources. Topics include: land and water management and use, the natural resource policy environment, the roles and behaviors of natural resource agencies, and alternative natural resource policy futures.

PUBADM 541 ENVIRONMENTAL AND REGULATORY POLICY AND ADMINISTRATION (3-0-3)(F/S). Examines aspects of environmental regulatory politics and policy. Topics examined include the politics of regulation, pollution and waste policy, and intergovernmental environmental management.

PUBADM 542 ENERGY POLITICS (3-0-3)(F/S). Topics to be discussed in this energy policy related course include: alternative energy policies, energy and environmental protection, and the politics of the formulation of a national energy policy.

PSYC — PSYCHOLOGY

PSYC 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 behavior, and similar problems. PREREQ: PSYC 101.

Idaho State University Courses:

MPH 601	Applications in Epidemiology
MPH 602	Introduction to Biostatistics
MPH 603	Applications in Biostatistics
MPH 606	Environmental Health

Master of Arts in History

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Director of Graduate Studies: Shelton Woods
Department Chair: Peter Buhler
Full Graduate Faculty: Peter Buhler, Nicholas Casner, Allan Fletcher, Jill Gill, Errol Jones, Nicholas Miller, Charles Odahl, Sandra Schackel, Todd Shallat, Shelton Woods, Michael Zirinsky
Adjunct Graduate Faculty: Ellis Knox, Carol MacGregor, Beverly Miller, Robert Sims (Emeritus), William Tydeman, Alan Virta.

General Information

The M.A. degree in history at BSU prepares students for advanced work in the field of history. Established in 1977, the M.A. program in history is based upon a solid, committed faculty and multiple resources. Faculty and library strengths enable students to specialize in the fields of north American, western, public, women's, ancient and medieval, religious, international, European, and non-western history. Besides a faculty rich in its diversity and talents, the location of the university in the capital city of Idaho gives students access to the State Archives, Idaho State Historical Museum, the state's Law Library, the Survey Research Center, the Frank Church Archive, and other research facilities. The BSU library has a collection of almost 550,000 bound volumes and periodicals and subscribes to more than 4,900 serials. It is also a selective US Government and Canadian document depository, as well as an Idaho State depository. The interlibrary loan system makes the holdings of other excellent collections accessible to BSU students. Several large corporations with home offices in Boise have opened their archives to students and faculty doing research on department-supported topics.

Three Tracks

Students have an option of choosing from three tracks in earning their History graduate degree. The first track is for those who wish to emphasize the research and thesis aspect of their program. Individuals on this track, the **Research track**, are required to write and publicly defend a thesis related to their area of study and interest. The **Education track** is for those who wish to increase their skill in the classroom, and students are introduced to pedagogical, technological, and historiographical issues in order to be more effective in the classroom. Students on this track have three options following the completion of the course work: they can take a cumulative exam, write a thesis, or complete an approved project related to their study. Recognizing the need to apply a graduate degree in the broadest sense, the third track, the **Applied track**, is for individuals interested in promoting an established career or beginning a career in the world of research, technology, writing, management and other related areas. Like the Education track, students on the Applied track have the option of a cumulative exam, a thesis, or a project to round out their program.

Major Fields of Emphasis

With fourteen permanent and many adjunct faculty, the department of history offers courses in a wide variety of topics in north American, European, and non-western history. In addition to covering these traditional geographical areas, the department emphasizes the following fields.

U.S. History: Students may concentrate on the history of the United States in any era from the colonial period to the present. Possible subfields include social, economic, political, ethnic, regional, gender, and diplomatic history. Within these broad fields, students are free to focus on specific issues that draw on the expertise of faculty. Some of those topics are civil rights, science and technology, the military, environmental history, women in America, Vietnam, Hispanics, African American and Native American history. A major theme is the growth and expansion of the American nation over four centuries and its emergence as a world power.

Western and Public History: The study of the American west at Boise State stresses the diversity of the region and the practical value of scholarly research. Topics include natural resources and environmental history, western women, American Indians, exploration, museums and archives, and historic preservation. Team research projects, a variety of internships, and cultural events at the Hemingway Center of Western Studies broaden the learning experience. Library holdings are extensive. In 1988 the program received the Bureau of Land Management's "Outstanding Service Award."

Women's History: The study of women's history as a field of emphasis is designed to introduce students to the contributions and significance of women's past experiences. It also uses materials and methods which increase an awareness of the importance of women's many roles and expands students' horizons beyond those set by gender-based stereotypes. Students may select from a variety of courses such as Introduction to Women's History, Women in America, Women in the American West, Women and Religion, Witchcraft in Europe, Women and War, and Women and Autobiography, among others.

Ancient and Medieval Studies: The department offers courses in Ancient Greek & Roman, Early Christian, and Medieval European history, with advance seminars on Augustus & the Golden Age of Rome, and Constantine & the Byzantine Empire. Courses are also available in the classical languages through department faculty, while other university departments offer courses in ancient and medieval art, literature, and philosophy for a broad cultural approach in this area. Latin is required for work in this field.

European History: The department offers courses dealing with the European continent from Great Britain and France to Russia and the Balkans, and covering a chronological sweep from the late Medieval and Byzantine eras up to the present century. A European language might be required for work in these areas.

Religious History: The department offers a strong program in the history of Christianity, emphasizing the ancient, medieval, Reformation, and modern American periods, backed with courses in early Christian, Patristic and medieval church Latin; and it also offers courses dealing with African, Middle Eastern, and East Asian religious traditions for a broader approach to world religions.

Regional History: The department offers courses that include the histories of East, South and Southeast Asia, Africa, Latin America, and the Middle East. Students who wish to focus their program on a particular region will also find that there are courses in other disciplines across campus which will enhance their knowledge of their area of interest.

Graduate faculty are deeply involved in research and writing in their respective fields of emphasis. The department of history encourages a collegial atmosphere in which students and faculty work closely together. Its main goal is to prepare students for further study or for a successful career in history.

Financial Assistance

Financial aid applications, scholarship applications, and guidelines can be obtained from the Graduate Admissions office. Applicants who wish to be considered for financial aid should complete applications by March 1 of the academic year prior to their first enrollment in the M.A. program. Applicants must be sure that the history department has in hand by March 1 a completed application for financial assistance, two letters of recommendation, complete transcripts of the applicant's academic record, and demonstrated ability to write effectively in English.

Graduate Assistantships: The purpose of the graduate assistantship program is to support promising individuals who are committed to continuing their education at the graduate level. Assistantship awards include a waiver of all registration fees and/or a monetary stipend. Graduate assistants are required to spend up to twenty hours per week in service to the department depending on the stipend awarded. Duties will vary with area of study. A limited number of assistantships are awarded on a competitive basis.

Internships: The department sometimes may be able to arrange a paid internship as part of the graduate program. Make enquiry with the department to see what may be available at the time of registration.

Designation of Advisor and Graduate Committee

The director of graduate studies in history will act as temporary advisor for all newly admitted students. The student will establish an advisory committee as soon as possible, normally during the first semester enrolled. The committee chair will act as advisor and thesis or project director. Other members of the committee will be chosen by the student and his or her advisor. The entire program leading to the degree will be planned by the student in conjunction with his or her advisory committee.

Note: Courses taken without prior approval of the advisory committee may not be accepted as part of the student's degree program. To make sure all courses taken are accepted as part of the degree program, the student and the advisory committee should fill out and adhere to the *Program Development Form*.

Other Academic Regulations

Incompletes: Incompletes in any graduate course, except thesis (HIST 593) and project (HIST 591), will be granted only under extraordinary circumstances and the work must be made up before the student will be allowed to register for a subsequent semester.

Language Requirements: All students are required to complete at least one year of a foreign language (language courses completed in a student's undergraduate program are accepted as fulfilling this requirement). In addition, some areas of study demand a working ability to translate a language of that region, e.g. Spanish for Latin America.

Overloads: Students wishing to take an overload (more than 9 graduate credits) must secure written permission from their advisory committee chair, the director of graduate studies, and the department chair.

Admission to Candidacy: Students should apply for admission to candidacy as soon as possible after completing 18 hours in an approved program of study. There can be no deficiencies at this point (e.g., the student must have been raised from provisional to regular status) and language or other special requirements must have been met. Students will be recommended by the department for admission to candidacy **only** on a positive vote of the advisory committee, after careful assessment of progress toward the degree, to the date of application. (See the specific Graduate College statement, "Applying for Candidacy.")

Thesis or Project: Students who wish to write a thesis or present a project must decide, with the advice and consent of their committee, whether to present a Thesis or a Project. In either case, the first formal step toward the thesis or project is to prepare a prospectus which must be approved by the committee no later than the tenth week of the first semester

registered for thesis or project credit. Regardless of which option is selected, the candidate for the M.A. must publicly defend the thesis or project at an oral examination scheduled by his or her advisory committee in either fall or spring semester. As noted above, not every graduate student is required to write a thesis or present a project. A cumulative exam is also an option for those who are in the History Graduate program.

Cumulative Exam: A four-hour cumulative exam prepared and graded by the student's committee is an alternative to the thesis or project. This option only applied to students in the Education and Applied tracks (see below).

Application and Admission Requirements

Application Procedures: The history department now accepts new candidates only for the fall semester. Application for admission to the history graduate program must be made prior to March 1 for the following fall semester. At that time the student will pay the application fee, fill out an application form and make provision to have transcripts for all schools of higher education previously attended sent directly to the BSU Graduate Admissions Office.

Applicants must also send directly to the director of graduate studies in history a letter of application explaining why the student wishes to be admitted, a sample of the applicant's writing skills (e.g., seminar paper, senior thesis, or published article), and at least two letters of recommendation from persons competent to judge the applicant's potential for graduate study in history. Students also must provide their Graduate Record Examination (GRE) scores.

The History Department can take no action on the application until all of the above materials have been received. Applicants should complete applications by March 1.

Admission: Minimum requirements include a bachelor's degree in history, or its equivalent, from an accredited institution or a strong history background (more than 20 semester hours) within their undergraduate program. Students without a strong history background may be required to remove deficiencies before admission.

Minimum standards for admission with regular status to the history graduate program include a minimum GPA of 3.00 with 3.20 in history and 3.20 for the last two years of undergraduate study. In addition, for admission with regular status applicants must present at least one year of college-level language other than English. Students not meeting these minimum requirements for admission with regular status are encouraged to apply for provisional status.

Applicants must also be aware that some areas require additional foreign language skills or other research tools.

Degree Requirements

For students transferring from other graduate programs, the department will accept up to nine graduate credits subject to the advisory committee's approval. As noted above, there are three tracks for the History Graduate program at Boise State University. Listed below are the requirements for each of these tracks:

Master of Arts in History, Applied

Course Number and Title	Credits
HIST 500 Historians and Historical Interpretation	3
HIST 501 Sources of Human Traditions	3
HIST 502 Media, Technology and the Historian	3
Non History Skills Training	3
Field Work	6
HIST 595 Readings and Conference (in Area)	9
History or Non History Elective	3
HIST 591 Project	3
Cumulative Exam	0
Total	**33**

Master of Arts in History, Education

Course Number and Title	Credits
HIST 500 Historians and Historical Interpretation	3
HIST 501 Sources of Human Traditions	3
HIST 502 Media, Technology and the Historian	3
HIST 503 The Historian and the Classroom	3
Major Field .....18 OR Major Field .....12 Minor Field 9	18-21
Cumulative Exam OR HIST 591 Project 3	0-3
Total	**30, 33 or 36**

Master of Arts in History, Research

Course Number and Title	Credits
HIST 500 Historians and Historical Interpretation	3
HIST 501 Sources of Human Traditions	3
Major Field .....24 OR Major Field .....15 Minor Field 9	24
HIST 591 Project .....3 OR HIST 593 Thesis.....6	3-6
Total	**33 or 36**

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

HIST — HISTORY

HIST 334G UNITED STATES SOCIAL AND CULTURAL HISTORY (3-0-3)(F/S). Selected themes from colonial times to the present. The nature and meaning of the national experience, customs, traditions and intellectual developments. HIST 151, HIST 152 recommended. Alternate years.

HIST 423G EUROPEAN DIPLOMATIC HISTORY 1871 PRESENT (3-0-3)(F/S). 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 One and Two, cold war and merging of European diplomacy into world diplomacy. Alternate years.

HIST 500 HISTORIANS AND HISTORICAL INTERPRETATION (3-0-3). A study of major historians and schools of historical interpretation from Ancient Greece to the twentieth century. Discussion concentrates on written history and the problems of interpretation. Oral and written participation and a major paper are required. PREREQ: admission to graduate program or PERM/CHAIR.

HIST 501 SOURCES OF HUMAN TRADITION (3-0-3). Topics in the History of Humanity beginning with the Classical Greeks and other ancient traditions through the present era. A comparative study of intellectual and cultural trends reflected in the human philosophical tradition, both secular and religious. PREREQ: Admission to the graduate program or PERM/CHAIR.

HIST 502 MEDIA, TECHNOLOGY AND THE HISTORIAN (3-0-3). This course will examine technology as it relates to the study of history and the role that technology and various media might play in the presentation of research-based projects. PREREQ: Admission to graduate program or PERM/CHAIR.

HIST 503 THE HISTORIAN AND THE CLASSROOM (3-0-3). This course emphasizes the strategies historians use to communicate the subject that they teach. It is directed toward those who seek to be more effective in their preparation, research, and presentation in the classroom. This course will draw upon the resource of secondary teachers' experience and how they cope with new and old challenges in the classroom. PREREQ: Admission to graduate program or PERM/CHAIR.

HIST 580 SELECTED TOPICS: GRADUATE SEMINAR IN U.S. HISTORY (3-0-3). Studies of the principal themes or problems within well-defined periods of particular fields of U.S. History. Emphasis will be placed on reading, discussion, writing and research. Reports and discussion on various aspects of the controlling subject will be performed by the students with the assistance of the instructor. PREREQ: Admission to the graduate program or PERM/CHAIR.

HIST 581 SELECTED TOPICS: GRADUATE SEMINAR IN EUROPEAN HISTORY (3-0-3). Critical analysis of source materials and historical literature on topics of restricted scope in European history. Emphasizes reading, discussion, writing and research. Student participation in discussion and reports are expected. PREREQ: Admission to graduate program or PERM/CHAIR.

HIST 582 SELECTED TOPICS: GRADUATE SEMINAR IN THIRD WORLD HISTORY (3-0-3). Critical analysis of source materials and historical literature on topics of restricted scope in Third World history. Reports and discussion on various aspects of the topic under consideration will be performed by the students under the direction of the instructor. Emphasis will be placed on reading, discussion, research and writing. PREREQ: Admission to graduate program or PERM/CHAIR.

HIST 590 PRACTICUM/INTERNSHIP

HIST 591 PROJECT (3 credits).

HIST 592 HISTORY COLLOQUIUM (3 credits).

HIST 593 THESIS (6 credits).

HIST 594 WORKSHOP

HIST 595 READING AND CONFERENCE (Variable 1 to 3). A rigorous reading course designed to fit the personal interests of the student in collaboration with the directing faculty member. It is not intended to duplicate courses already taught in a classroom setting, but to supplement those offerings. Requirements will be established by the directing instructor based on the difficulty of material to be analyzed and the number of credits to be granted.

HIST 596 DIRECTED RESEARCH (3-0-3). The purpose of this course is to provide the student with an opportunity to do individual research on a topic within one of the areas of specialization offered by the department. While it is expected that a research paper will result from this work, the directing faculty member will determine the requirements for the course.

HIST 597 SPECIAL TOPICS.

HIST 598 HISTORY SEMINAR (3 credits).

LATIN — LATIN

LATIN 323G EARLY CHURCH LATIN LITERATURE (2-2-3)(F). 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. Alternate years.

LATIN 324G MEDIEVAL LATIN LITERATURE (2-2-3)(S). 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. Alternate years.

LATIN 491G ADVANCED LATIN TUTORIAL - AUGUSTAN AGE (2-2-3)(SU/F). 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 for teaching Latin in secondary schools. Recommended: HIST 481/581 European Seminar on Augustus and the Golden Age of Rome. PREREQ: PERM/INST. Alternate years.

LATIN 492G ADVANCED LATIN TUTORIAL - CONSTANTINIAN ERA (2-2-3)(SU/F). Translation and analysis of Christian texts from the Constantinian Era, such as imperial biographies, laws, letters, and creeds. Survey of materials and methods for teaching Latin in secondary schools. Recommended: HIST 481/581 European Seminar on Constantine and the Late Roman Empire. PREREQ: PERM/INST. Alternate years.

Master of Science in Instructional & Performance Technology

College of Engineering
Dean: Lynn Russell
Engineering Technology Building, Room 101
Telephone 208 426-1153
FAX 208 426-4466
http://coen.boisestate.edu

Department of Instructional & Performance Technology
Department Chair and Graduate Program Coordinator: Mark Eisley
Engineering Technology Building, Room 338
Telephone 208 426-1312
FAX 208 426-1970
http://coen.boisestate.edu/dep/ipt.htm
e-mail: lburnett@boisestate.edu

Full Graduate Faculty: David Cox, Mark Eisley, Donald Winiecki
Adjunct Graduate Faculty: Bobbie Allaire, Marcia Belcheir, Yonnie Chyung, Larry Crookham, Daniel Eastmond, Theodore Eisele, Robert Erickson, Peggy Ertmer, Jo Ann Fenner, Diane Gayeski, Ben Hambelton, Timothy Newby, David Ripley, Penelope Schweibert, Donald Stepich

General Information

The Master of Science Degree in Instructional & Performance Technology (IPT) is intended to prepare students for careers in the areas of instructional design, training, training management, human resources, organizational redesign, and job performance improvement. The IPT program equips students with skills needed to identify, analyze, and solve a variety of human and organizational performance problems in settings such as industry, business, the military, education, and private consulting.

The M.S. program emphasizes scholarly understanding of research and theory as they apply to instructional technology and performance technology. Students are also exposed to a broad range of practical skills and knowledge in instructional systems design, program development, computer-based training, consulting, media selection/utilization, instructional use of computers, and program evaluation. In addition, students learn how to identify and assess needs and how to appraise, select, and design proposed training programs and delivery systems. With respect to training and instruction, the emphasis is not so much on how to personally be a good presenter or instructor as it is on how to **design** effective programs that can be "packaged" for implementation by other individuals.

Human performance improvement in organizations requires more than education or training alone. In this program, students explore the many factors that affect job performance, such as knowledge and skills, job expectations, task design, incentive systems, feedback systems, tools, job aids, and resources. In the IPT program, students learn how to think strategically and design interventions that will address all the needed factors (in addition to training or instruction) to achieve the desired results. They learn how to define and clarify those results and how to integrate instruction with other factors that impact human performance.

Distance Education Delivery

Students living or traveling throughout the world take IPT courses (and even the entire degree) from home or from wherever they can connect to the Internet. In addition to the traditional, on-campus mode of delivering classes, the IPT program also offers its courses through distance education (DE) methods. Students may either (1) take all of their courses on campus, (2) take some of their courses on campus and some by DE, or (3) take *all* of their courses by DE. This third option constitutes an entirely nonresident course of study for a complete M.S. in IPT. All three of the above options are fully accredited by the Northwest Association of Schools and Colleges (NASC).

DE classes are conducted primarily online through asynchronous computer conferencing (via personal computers, and Internet connections). The classes are distinct from correspondence courses in many important ways. Two of these are: (a) each student in the class sees the questions and comments of all the rest of the students in a natural flow of class discussion; and (b) interaction between teacher and student and among peers is much more immediate than possible through mailing systems. Computer conferencing permits (and encourages) a high level of interaction among class members.

Evaluations show that students in the DE courses are quite enthusiastic about the rigor and value of the academic experience they receive. Many have expressed their exhilaration at how effectively the DE courses increase their capability and credibility in the workplace. DE classes make it unnecessary for students to relocate in order to obtain a highly useful and versatile Master's degree. By the same token, DE classes make it possible for students who do relocate before finishing the program to complete the IPT degree from their new location. DE courses have been especially helpful to full-time professionals who need flexibility in time (within any given week) and/or location.

The distance option of the IPT program uses the *same admission standards and required courses as the on-campus option*. However, the tuition is higher than for on-campus classes, special equipment is required, and course offerings are scheduled through Extended Studies. The reason for the additional cost is that the DE courses are entirely self-sustaining and are not subsidized by state taxes. A discounted rate is available for Idaho residents who are part-time students. (DE courses do not follow the normal schedule indicated in the course descriptions which follow; schedules for DE courses are available in an official release from Extended Studies and online.)

In order to take a distance course, students must own or have convenient access (a minimum of 2 hours per day, 5 days per week) to a complete computer system. This can be a Pentium PC running Windows 95 or newer, or a Macintosh running System 7.5 or newer; with at least 250 MB free hard drive space; 32 MB RAM; a 28.8-baud or faster modem; CD-ROM drive; sound card and speakers. All courses require students to have full Internet access, including e-mail through a POP3 server. Students using a Pentium system will need to purchase LotusNotes Desktop Client R5. Each student must complete an Equipment Availability Checklist online and have it verified by the IPT Systems Manager. (Send e-mail to rgrames@boisestate.edu)

Graduate Assistantships

A limited number of graduate assistantships are available for full-time, on-campus students. Graduate assistantships include a stipend and a waiver of fees. Graduate assistantship appointments require approximately 20 hours service per week to the University. The appointment is made for a period not to exceed one academic year. Appointments are renewed at the discretion of the IPT Program. Graduate assistants must have been admitted into the IPT Department, must enroll for a minimum of eight credit hours each semester, and must meet any other requirements as set forth by the Graduate College. Applications are available in the IPT office or the Graduate College office, or online. The application deadline is March 1.

Application and Admission Requirements

Admission requirements will be based on the following information:

1. Documented evidence of an earned baccalaureate degree from an accredited institution.
2. A minimum GPA of 3.0 for the entire baccalaureate degree (or for the last two years of the baccalaureate degree plus all additional credit earned since the degree). All course work must be verified by official transcripts. If a person fails to meet the GPA requirement, that person may apply for special consideration by submitting an official transcript of his/her scores on the *GRE Writing Assessment* (GRE-W).
3. Appropriateness of background experience and of the fit between the prospective student's career goals and what the IPT program offers. (Applicants must submit a resume and a one-to-two page essay to help determine satisfaction of this requirement.)

Admission Procedures:

1. Obtain a graduate application and submit it with a $20 application fee to the Graduate Admissions Office. Note: International students should submit the International Student Graduate Application, a $30 application fee, and follow the admission requirements listed in the front of this catalog.
2. Have the Registrar of ALL institutions attended send official transcripts directly to the Graduate Admissions office. PLEASE DO NOT HAVE TRANSCRIPTS SENT PRIOR TO SUBMITTING YOUR GRADUATE ADMISSION APPLICATION.
3. Submit to the IPT Office a resume of personal qualifications and work experience and a one-to-two page Essay of Intent describing why you want to pursue this degree and how it will contribute to your career goals.
4. If you do not meet the GPA requirement, you may obtain information for taking the GRE-W at www.gre.org/stuwrit.html. Have your scores sent to the Graduate Admissions Office at BSU. (The institution code number for Boise State is 4018.)
5. Students intending to take DE courses must also complete the IPT Equipment Availability Checklist and have it verified by the IPT Systems Manager.
6. After Steps 1 through 5 are completed, your records will be evaluated and forwarded to the IPT Program Committee for a decision on your admission to the program. As soon as this process is completed, you will receive official notification as to the decision and, if you are admitted, who your faculty advisor will be.

Timing of Application and Admission:

It is extremely important that you complete the above admissions procedures and are officially admitted to the program *before* you begin taking the courses you hope to apply toward the M.S. degree. Please note that permission from the Graduate Admissions Office to take graduate courses does NOT constitute admission to the IPT program. If, at your own discretion, you enroll in a BSU graduate course before you are admitted to the M.S. program in IPT, you are urged to complete the admissions procedures before the end of that course. If you are accepted before the semester closes, the credit you receive at the end of the semester is "eligible" for application toward the degree; and the IPT Program Committee will decide which credits, if any, will be accepted.

Degree Requirements

Master of Science in Instructional & Performance Technology

Course Number and Title	Credits
Core Requirements: IPT 530 Evaluation Methodology **or** IPT 531 Overview of Research Design, Measurement, & Statistics .....3 IPT 535 Learning Theory for Instructional Designers .....3 IPT 536 Introduction to Instructional and Performance Technology .....3 IPT 537 Instructional Design .....3 IPT 550 Delivery Technology for Instruction .....3 IPT 560 Human Performance Technology 3	18

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Master of Science in Instructional & Performance Technology (continued)

Thesis Option: Electives .....12 IPT 593 Thesis (Oral defense required) .....6 or **Project Option:** Electives .....12 IPT 591 Project (Oral defense required).....6 or **Nonthesis Option:** Electives .....18 Comprehensive examination required	18
Total	**36**
Electives: Appropriate electives will be selected by the student and his/her advisor based on an evaluation of the student's educational and professional goals. **Note:** Some courses may be offered only on campus or by distance. Suggestions: IPT 520 Training Video Production.....3 IPT 523 Authoring Skills for Instructional Multimedia.....3 IPT 524 Internet Applications for IPT Professionals .....3 IPT 530* Evaluation Methodology.....3 IPT 531* Overview of Research Design, Measurement, and Statistics.....3 IPT 538 Instructional Strategies .....3 IPT 540 Applications of Learning Styles in Instructional & Performance Technology .....3 IPT 551 Designing Computer-Based Training .....3 IPT 561 Human Factors Engineering.....3 IPT 563 Job Performance Aids (JPAs) & Electronic Performance Support Systems (EPSSs).....3 IPT 564 Motivation in Instructional and Performance Technology .....3 IPT 571 Management Concerns for Performance Technologists.....3 IPT 583 Selected Topics in Instructional Technology .....3 IPT 590 Practicum/Internship.....Variable IPT 591 Project (Non-culminating activity)...Variable IPT 595 Readings and Conference .....Variable IPT 596 Directed Research.....Variable IPT 597 Special Topics.....Variable *Can be used as either required or elective.	

Academic Scholarship Requirement

The IPT program has high academic expectations for its students. Grades below B in required or elective courses cannot be used to meet the requirements of the M.S. degree in IPT. A student who earns a grade of C in a *required* course will be asked by the Program Committee to retake the course or to take another course deemed to be equivalent in purpose. With special permission of the Program Committee, a student may apply 3 ELECTIVE credits of C toward the degree.

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Master of Science in Instructional & Performance Technology (continued)

If a student leaves a course during a semester without following the proper procedures to drop or withdraw, the student will receive a final grade of 'F' in the course. A student who receives an 'F' in a REQUIRED course is automatically excluded from ANY further Master's degree work at BSU.

Residency Requirement for Project or Thesis Option

In order to complete the project or thesis option, students are required to be in residence on campus for at least one semester during which they are enrolled in IPT 591 Project or IPT 593 Thesis. (Petitions for exceptions should be made to the IPT Program Committee.) Consequently, students in the distance education IPT courses are invited to come to campus to participate in the project/thesis option, or they may pursue the nonthesis option with no obligation to be on campus at any time.

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

IPT — INSTRUCTIONAL/PERFORMANCE TECHNOLOGY

IPT 450G METHODS AND MEDIA FOR DELIVERING INSTRUCTION VIA TWO-WAY COMPRESSED VIDEO (1-0-1) (F/S/SU). This course will prepare students to make use of compressed video technologies for the delivery of academic and vocational instruction. It will help current and preservice teachers adapt their instructional methods and media for use in a two-way compressed video classroom.

IPT 520 TRAINING VIDEO PRODUCTION (3-0-3)(Demand). Focuses on the study of video as a tool in training and instruction. Hands-on projects help students understand video, its production process, its capabilities, its limitations, its ability to complement other media, and its demands on project resource. PREREQ: PERM/INST.

IPT 523 AUTHORING SKILLS FOR INSTRUCTIONAL MULTIMEDIA (3-0-3)(F). Students learn how to use basic software tools that are used by professionals in authoring computer-based instruction. This course focuses on the mechanics of multimedia authoring, demonstrating how advanced authoring can be used to enhance presentation programs by adding CBT elements, including testing, feedback, and interactive exercises. Topics covered will include an overview of programming code and multimedia integration.

IPT 524 INTERNET APPLICATIONS FOR IPT PROFESSIONALS (3-0-3)(SU). An examination of the Internet and World Wide Web for instructional and performance technologists. Through the application of practical and relevant activities, students will learn to use electronic communications effectively, search for and access electronic resources, prepare electronic documents for the Web, and examine critical issues related to the Internet, such as copyright, censorship, design and usability issues, evaluation of online information, and instructional applications.

IPT 530 EVALUATION METHODOLOGY (3-0-3)(SU). Students learn how to use methods of inquiry and analysis to evaluate the effectiveness of instructional or performance improvement programs. They explore various models of both formative and summative evaluations and ways to implement the results of such research efforts.

IPT 531 OVERVIEW OF RESEARCH DESIGN, MEASUREMENT, AND STATISTICS (3-0-3)(S). Students receive a foundation in the relationships among research design, measurement, and statistics. Topics covered include scaling, reliability, validity, norm- vs. criterion-referenced testing, forms of distributions, measures of central tendency & variability, basic quantitative research designs and their appropriate statistical tests, and methods for critiquing quantitative research.

IPT 535 LEARNING THEORY FOR INSTRUCTIONAL DESIGNERS (3-0-3)(S). Students discover how theories of human learning can be applied to the instructional process in order to make it more effective and efficient. They explore conditions both internal and external to the learner, which are known to affect learning outcomes. They also explore alternative methods, strategies, and technologies that increase instructional effectiveness in various learning situations and circumstances.

IPT 536 INTRODUCTION TO INSTRUCTIONAL AND PERFORMANCE TECHNOLOGY (3-0-3)(F). An overview of the field of Instructional and Performance Technology, its historical and theoretical foundations, and its current applications. Topics include principles of learning and instruction, systematic instructional design, delivery media and methods, systemic analyses, organizational behavior, the design of performance improvement interventions, and research and evaluation.

IPT 537 INSTRUCTIONAL DESIGN (3-0-3)(F). This course gives an overview of several models for instructional systems design and examines the processes involved in designing effective instructional interventions. PREREQ: IPT 536 and IPT 535, or PERM/INST.

IPT 538 INSTRUCTIONAL STRATEGIES (3-0-3)(F). Instructional strategies constitute the "recipes," templates, or prescriptive patterns that guide, simplify, and "automate" the voluminous task of actually designing the learning activities called for by the front-end analysis in an instructional design project. Students will identify, clarify, justify, and experiment with several types of instructional strategies. Given a variety of instructional needs, students will practice selecting and implementing appropriate strategies. PREREQ: IPT 537.

IPT 539 ARTIFICIAL INTELLIGENCE APPLICATIONS FOR INSTRUCTION (3-0-3)(Demand). This course provides students with an overview of artificial intelligence and an introduction to expert systems. Students learn how expert systems can be used to increase the efficiency and effectiveness of instruction and performance interventions.

IPT 540 APPLICATIONS OF LEARNING STYLES IN INSTRUCTIONAL AND PERFORMANCE TECHNOLOGY (3-0-3)(F). An examination of the character features of several learning/cognitive styles and their relation to abilities and performance in the application of Instructional and Performance Technology. Topics include the stylistic preferences for different learning environments, curriculum and media materials, instructional and testing methods, and the implications of different student/teacher styles for instructional design.

IPT 550 DELIVERY TECHNOLOGY FOR INSTRUCTION (3-0-3)(F). Students investigate the applications of various types of media and technology to instruction and performance interventions. PREREQ: IPT 537 or PERM/INST.

IPT 551 DESIGNING COMPUTER-BASED TRAINING (3-0-3)(F). Students learn to apply the principles of instructional design, instructional message design and human-computer interface design within the context of Computer-Based Training (CBT). PREREQ: IPT 537.

IPT 560 HUMAN PERFORMANCE TECHNOLOGY (3-0-3)(F). Students examine the foundations, process models, interventions, professional practice issues, and future trends of the field of human performance technology (HPT) which aims to improve performance in the work place or in learning situations. Students practice applying HPT to design effective performance interventions. PREREQ: IPT 536 or PERM/INST.

IPT 561 HUMAN FACTORS ENGINEERING (3-0-3)(Demand). This course provides a basic introduction to Human Factors Engineering to design of performance environments (including human-machine interfaces). Students learn principles of work and learning system design that help to improve human performance.

IPT 563 JOB PERFORMANCE AIDS & ELECTRONIC PERFORMANCE SUPPORT SYSTEMS (3-0-3)(S). Job Performance Aids (JPAs) and Electronic Performance Support Systems (EPSSs) are non-instructional devices that are used to help human workers overcome cognitive limits and improve job related performance. This course will provide students with a review of research and methods related to prescribing, designing, implementing, evaluating and revising JPAs and EPSSs. Students in this class will analyze a human performance problem; then prototype, evaluate and propose revisions on JPAs and EPSSs for the solution of that problem. PREREQ: IPT 536 or PERM/INST.

IPT 564 MOTIVATION IN INSTRUCTIONAL AND PERFORMANCE TECHNOLOGY (3-0-3)(Demand). An in-depth study of motivation as one of the fundamental variables underlying human learning, behavior, and performance improvement. Students examine theories of motivation and apply the principles derived therefrom to produce strategies that motivate learning and improved performance.

IPT 571 MANAGEMENT CONCERNS FOR PERFORMANCE TECHNOLOGISTS (3-0-3)(Demand). This course provides students with an exposure to current topics in management which are related to understanding performance systems.

IPT 583 SELECTED TOPICS IN INSTRUCTIONAL TECHNOLOGY (3-0-3)(Demand). Students explore issues and topics of current interest. Content will be revised continually to reflect current developments in the field of instructional and performance technology. PREREQ: IPT 536 or PERM/INST.

IPT 590 PRACTICUM/INTERNSHIP (Variable). Note: This course is used by IPT students as an internship experience. A prospectus requiring faculty sponsor, employer, and student agreement must be submitted before registering for the course; a brief report endorsed by the employer is required at the end of the semester; the student's final grade is determined by the faculty sponsor. IPT students may count no more than a total of 3 semester hours of IPT 590 toward their program.

IPT 591 PROJECT (0-V-6). Note: The IPT program uses the 591 Project course in both the traditional way *and* in a unique way to serve an additional purpose. Other BSU graduate programs typically use 591 Project only as a culminating activity requiring 6 credits of 591. If you are an on-campus student and you wish to use 591 in the traditional manner, you may do so by forming a faculty committee and following the requirements and procedures for the "Project Option." These are outlined in the section at the beginning of this catalog titled, "Project, Thesis, and Dissertation Requirements." The second (and more recommended) way in which IPT 591 may be used is to enroll in 1 to 3 credits (per project) and engage in an independent *development project* under faculty direction. (*Research* projects should be conducted under IPT 596.) You must first have the recommendation of your advisor and obtain a faculty sponsor for the project you would like to propose. Then prior to registration in IPT 591, an agreement form must be signed by the faculty sponsor. A combined total of 9 semester hours from either IPT 591 or IPT 596 may be applied toward your program, with no more than 6 of those being earned in any given semester or session.

IPT 593 THESIS (0-V-6). Note: Students conduct empirical research in an area related to IPT and report the results in the form of a thesis.

IPT 595 READINGS AND CONFERENCE (Variable). Note: With the aid of a faculty sponsor, the student selects a cohesive set of readings, and then discusses them with the faculty member on an agreed-upon schedule throughout the semester. The planned reading list may be changed (with faculty approval) to respond to emphases

and interests stimulated by initial reading. Students are expected to do a least 50 hours of reading, thinking, and conferring for each credit hour earned.

IPT 596 DIRECTED RESEARCH (Variable). Note: At the discretion of the student's advisor and under the direction of a faculty sponsor, the student performs research on any approved subject relating to IPT. (A faculty sponsor must be found prior to registration, and an agreement form must be signed by the faculty sponsor prior to registration for the course.) A combined total of 9 semester hours from either IPT 591 or IPT 596 may be applied toward your program, with no more than 6 of those being earned in any given semester or session.

IPT 597 SPECIAL TOPICS (3-0-3)(Variable).

Such as: Leadership Principles for Performance Technologists
Methods of Creativity & Innovation in Performance Technology
Project Management
Needs Assessment
Front Page
Literature Review Techniques
Analysis of Instructional Design Issues in Professional Practice
Ethnographic Analysis of Performance Environments

IPT 598 SEMINAR (Variable).

Master of Arts or Science in Interdisciplinary Studies

College of Arts and Sciences
Science/Nursing Building, Room 106
Telephone 208 426-1414
FAX 208 426-3006
e-mail: ids@boisestate.edu

Director of Interdisciplinary Studies: Kent Neely

General Information

Boise State University offers a Master of Arts/Master of Science degree program in Interdisciplinary Studies. In consultation with faculty, students may combine courses from more than one college or more than one department to create an individualized program of educational experience. The program is designed for mature students who wish to continue education at the graduate level but do not seek specialized training in a major area. The program is not a substitute for the traditional master's degree; rather, it is intended for students with broader interests in several fields or those whose career goals do not match fully with a single, identifiable academic unit or department. Emphasis is placed on continued intellectual and cultural development in a constantly changing society where new intellectual and career interests may extend over several traditional specializations.

The Interdisciplinary Studies (IDS) Program is administered by the Graduate College, housed in the College of Arts and Sciences, and directly supervised by the Director of Interdisciplinary Studies who is Associate Dean of that College. A university-wide Interdisciplinary Studies Committee consists of the Graduate Dean and one member from each academic College appointed by the respective Deans. The Director of Interdisciplinary Studies serves as the chair of that committee and oversees the program. Each student in the program also has a graduate committee composed of three faculty members from the disciplines making up the student's interdisciplinary program. The student's graduate committee has the responsibility of helping the student select a particular program of study and recommends to the Interdisciplinary Studies Committee that it be accepted as the student's formal plan of study, thereby indicating that the members of the committee regard it as a viable program of graduate study. The Interdisciplinary Studies Committee is responsible for approving the members of the proposed graduate committee and for deciding whether to approve the student's plan of study.

Application and Admission Requirements

A prospective student must first satisfy general admission requirements and complete the process for admission to the Graduate College, as described in the Graduate Admission Policies and Procedures section of the *BSU Graduate Catalog*. General admission to the Graduate College does not guarantee admission to a graduate program in Interdisciplinary Studies. For admission to the MA or MS Program in Interdisciplinary Studies, a student must meet the following requirements:

1. A cumulative GPA in all prior college level work of at least 3.0 (although students who fall below this requirement but who have a cumulative GPA of at least 3.25 for the most recent 60 credit hours will also be considered).
2. Successful completion of the IDS Program's application process, which includes:
   a. meeting with the IDS Program Director to discuss expectations and be advised as to the remainder of the application process.
   b. submission of a completed Personal Data form.
   c. selection of a graduate committee composed of 3 graduate faculty members, one of whom is to serve as committee chair and advisor.
   d. submission of a degree plan and three-page written statement of justification which
      - states intellectual, professional, or vocational reasons for requesting entry into the program;
      - explains why traditional degree programs do not meet the applicant's needs; and
      - justifies the selection of courses in relation to the conception of the individualized program as a whole.
   e. approval of the graduate committee and degree plan by the university-wide IDS Committee.

Although each applicant's prior academic record will be examined to determine whether there are compelling reasons for making an exception, normally the Interdisciplinary Studies Committee will not consider proposed degree plans from students who fail to meet requirement (1). Applicants who wish to submit additional supporting materials such as GRE scores, letters of recommendation, or a preliminary description of their proposed program of study may do so. Letters of

recommendation and preliminary program descriptions should be sent directly to the Director of the IDS Program.

Applications to the IDS Program are considered only twice a year, in October and in March. Application materials as described above must be submitted by **October 1** for processing during the fall semester or by **March 1** for processing during the spring semester. **Applicants are strongly encouraged to submit completed IDS application materials by March 1st or October 1st of the semester prior to the semester of proposed entry into the program, so as to avoid commencing course work which may not be accepted as part of an approved degree plan.** The student's graduate committee and degree plan must be approved **before the completion of more than 6 credits toward the program.**

Degree Requirements

Master of Arts or Science in Interdisciplinary Studies
Each program is developed individually according to the student's interests and background but must be intellectually defensible and clearly interdisciplinary in nature. In addition to any Graduate College requirements not mentioned here, the requirements of the IDS Program are as follows:
1. Course work must be selected from a minimum of two academic areas.
2. No more than 6 credits of work completed prior to approval of the degree plan by the IDS Committee may be included in the program.
3. No more than 11 credits of 300G or 400G courses may be applied toward the program.
4. No more than 9 transfer credits may be included in the program.
5. No more than 9 credits of directed research (596) may be included in the program.
6. Courses may not be challenged for credit.
7. The degree will consist of a total of no less than 33 credits, of which no more than 16 credits may be earned in the College of Business. Students may select (with IDS Committee approval) from a thesis/project option or a written examination option. The thesis/project will carry 6 credits. Under either option, the student will be required to draw critically upon the two or more disciplines studied and to integrate disciplinary insights.
8. Students completing the thesis/project option will, upon completion of that option, meet with their 3-person graduate committee for a final review of the thesis or project.
9. Students completing the examination option will take a written examination prepared by their 3-person graduate committee, with whom they will subsequently meet for a review of results.
10. Minor revisions to the plan of study may be approved by the Director of Interdisciplinary Studies upon the recommendation of the student's graduate advisor; major changes must be approved by the university-wide IDS Committee.
11. All work toward the MA/MS degree in Interdisciplinary Studies must be completed within a period of seven years.

Course Offerings

INTDIS — INTERDISCIPLINARY STUDIES

INTDIS 591 PROJECT (0-V-6). Students are expected to draw critically upon the two or more disciplines studied and to integrate disciplinary insights. Before beginning the Project, a prospectus must be approved by the student's graduate committee. After its completion, the Project must be defended at an oral examination scheduled by the graduate advisor. PREREQ: Admission to candidacy.

INTDIS 593 THESIS (0-V-6). A Thesis must reflect scholarly integration of the two or more disciplines studied and demonstrate original research or new and logical interpretation of existing data. Before beginning the Thesis, a prospectus must be approved by the student's graduate committee. After its completion, the Thesis must be defended at an oral examination scheduled by the graduate advisor. PREREQ: Admission to candidacy.

Master of Science in Management Information Systems

College of Business and Economics
Business Building, Room 117G
Telephone 208 426-1126
FAX 208 426-4989
http://cobe.boisestate.edu/graduate
e-mail: ranchust@boisestate.edu

Program Administrator: J. Renee Anchustegui
Graduate Studies Director: Phillip Fry
Full Graduate Faculty: Robert Anson, Thomas Foster, Phillip Fry, Lyman Gallup, Gary Green, David Groebner, Jerry LaCava, Robert Minch, Murli Nagasundaram, Patrick Shannon, Gregory Wojtkowski, Wita Wojtkowski
Associate Graduate Faculty: Emerson Maxson

General Information

The Master of Science in Management Information Systems at Boise State University is designed to prepare candidates for a career in the rapidly changing field of Information Technology (IT).

In the MIS master's program, a minimum of 33 credits will be required for graduation. The M.S. in Management Information Systems student who attends full-time will normally be enrolled for a two-year sequence excluding summers. Typically, however, students will maintain their current employment positions and attend the program part-time, thereby extending the length of time required to obtain the degree; but the program length may not be longer than five years, except under exceptional circumstances.

The curriculum is comprised of 18 credits of required courses with an additional 15 credits of elective courses. The student and his/her graduate advisor will select the elective courses depending on the desired specialization. Admission to the program will be limited to 35 students a year.

Master of Science in Management Information Systems

Although the requirements of the BSU Graduate College also govern the M.S. in Management Information Systems degree program, the Certificate of Admission to enroll in graduate courses at BSU does not guarantee admission into the MIS program. Enrollment in the program is limited. In order to enroll in required courses, students must first be admitted to the MIS program or obtain permission of the program advisor.

Students are asked to subscribe to a listserv during their first semester of study.

Graduate Assistantships

Graduate assistantships covering tuition and fee waivers may be available through research grants and contracts. Contact the MIS director for information on assistantships which may be available from these sources.

Application and Admission Requirements

The application for admission, transcripts, and fees should be sent to the Graduate Admissions office, Room 141, Math/Geosciences Building, Boise State University, 1910 University Drive, Boise, ID 83725. All other admission materials required for the MIS should be sent to the Business Graduate Studies office, Room B117.

Applicants should have a demonstrated interest in the application of information technology to organizational betterment and should be adept in at least one procedural programming language.

To be considered for admission to the MIS program with regular status, an applicant must satisfy Graduate College requirement and the following program requirements:

1. Education and Work Experience
   a. Baccalaureate degree from an accredited college or university in a CS, CIS, or related (including engineering) field; **and** at least one year work experience in a computer information systems-related field; **or**
   b. Baccalaureate degree in another field and at least three years of information systems work experience in a technical area.
2. Required Tests

   The Admissions Committee will evaluate performance on the GMAT or GRE examinations. A GMAT score of 500 or GRE Verbal and Quantitative score of 1000 are generally considered minimal. Students whose native language is not English must submit a TOEFL score of 587/240 or higher.
3. Official transcript of all post-secondary institutions attended.
4. Current expanded professional resume which accurately reflects professional work experience.
5. Prerequisites

   Admitted students must satisfy prerequisites of graduate courses that they are planning to take in areas of Computer Science and Master of Business Administration. Students who do not have these prerequisites but are otherwise qualified for admission will be advised to take relevant courses either at BSU or another accredited institution. These courses are not counted for the graduation requirements in this program.
6. An essay discussion professional goals and reasons for desiring to study in Management Information Systems program at BSU.
7. Three letters of reference (one preferably from an academic source) which address the applicant strengths, weaknesses, benefits the applicant may receive from our MIS program and what the applicant can contribute to our MIS program.
8. A student must be accepted to either the MIS program or another master's program to take MIS classes.

Final acceptance to MIS program is based upon the Admissions Committee evaluation of applicant on academic and professional accomplishments, performance on the GMAT or GRE examination, individual career goals, written recommendations, responses to interview (if performed), and personal essay.

Application Deadline

Applicants will be admitted only once a year for the Fall entry. To be considered, applicants must submit the admission packet by March 1. Prospective graduate students interested in financial aid should contact Financial Aid Office and consult the BSU catalog. Students will typically be notified of their admittance status by March 31 or October 31.

Applications for admission to the BSU Graduate College are available from BSU Graduate Admissions Office. Application materials for the MIS program are available from:

College of Business and Economics
Graduate Studies Office
Master of Science in MIS program
Boise State University
Boise, ID 83725

Degree Requirements

Master of Science in Management Information Systems

Course Number and Title	Credits
Required Courses	18
MIS 517 Database Management	3
MIS 520 Advanced Systems Development	3
MBA 534 Managing Technical Communication	3
MIS 550 Management of Information Technology	3
MIS 570 Project Management	3
MIS 580 Data Communications and Networking	3
Elective Courses	15
MIS 525 Information Engineering	3
MIS 530 Object Oriented Systems Development	3
MIS 531 Advanced Software Methods	3
MIS 557 International Dimensions of the Information Technologies	3
MIS 572 Team Facilitation and Technologies	3

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Master of Science in Management Information Systems (continued)	
MIS 593 Thesis.....6 Note: No more than the required 6 credits of MIS 593 Thesis will be counted in this category. Student may also elect up to 6 credits from any other graduate courses offered at BSU as part of the 15 credit requirement.	
The purpose of the elective courses is to provide an opportunity for specialization in an area of interest related to the management information systems field. Courses are selected that are germane to the student's employment goals or thesis. The student's graduate advisor must approve these electives. The student will demonstrate, to the advisor's satisfaction, how the electives are to fit into the student's program of study and career objectives. MIS graduate students taking thesis credit will consolidate the knowledge and skills gained during their graduate studies and carry out an independent scholarly inquiry of a management information systems topic. The thesis will require the student to draw critically upon two or more disciplines studied, as well as to integrate disciplinary insights and to publicly defend the work. Thesis research and writing may begin no earlier than the second year of the program or following completion of 18 required credit hours. Students will be required to register for a maximum of 6 thesis credits, at least 3 credits per semester. Students must be registered for the thesis credit in the semester in which they are planning to defend the thesis.	
Total	**33**

Course Offerings

MIS — MANAGEMENT INFORMATION SYSTEMS

MIS 517 DATABASE MANAGEMENT (3-0-3)(F). An introduction to database processing. Detailed study of various tools needed for logical and physical design. Several commercially available database management systems are reviewed. The course also covers implementation.

MIS 520 ADVANCED SYSTEMS DEVELOPMENT (3-0-3)(F). A study of selected aspects of contemporary software development methodology. These topics include: definition of user requirements, formal specification of solutions, design and implementation techniques, validation and testing, verification, maintenance, and reuse.

MIS 525 INFORMATION ENGINEERING (3-0-3)(F). This course offers an overview of Information Engineering methodology. The topics covered include: phases of information engineering; implementation and planning of information engineering projects; techniques and tools of information engineering such as data modeling; formal and informal strategic planning; strategic modeling; tactical modeling and operational modeling; as well as the benefits of information engineering.

MIS 530 OBJECT ORIENTED SYSTEM DEVELOPMENT (3-0-3)(S). The aim of this course is to provide a language-independent introduction to all aspects of object-oriented systems development. The topics will include: a high-level evaluation of the status of and prospects for object-oriented techniques and products, methods for analysis and design, and managerial issues associated with the introduction of object-oriented technology and methods.

MIS 531 ADVANCED SOFTWARE METHODS (3-0-3)(S). Advanced topics in programming-languages theory and implementation. Topics include: useful algorithms, comparative language assessment, performance, maintainability, code generation.

MIS 550 MANAGEMENT OF INFORMATION TECHNOLOGY (3-0-3)(S). This course introduces a variety of issues relating to managing the information systems and the information technology function in an organization. It addresses both, behavioral and technical issues, and uses case studies as a means of exploring a number of decision situations in organizations. All issues are considered from the managerial perspective.

MIS 557 INTERNATIONAL DIMENSIONS OF THE INFORMATION TECHNOLOGIES (3-0-3)(F). This course considers international regional and national information technology development strategies and policies. The topics include: IT and national sovereignty; development and control of global information highways; impact of public and business policies on information systems design and use.

MIS 570 PROJECT MANAGEMENT (3-0-3)(S). Project planning scheduling, control, and evaluation are presented. Issues of large-scale integrated systems are dealt with.

MIS 580 SELECTED TOPICS - DATA COMMUNICATIONS AND NETWORKING (3-0-3)(S). This course deals with fundamentals of digital data communications and networking. Topics include coding, signaling, and transmission of information as well as related hardware, software, standards, and protocol issues. Emphasis will be on open-systems approaches to networking, including TCP/IP, OSI, and the Internet.

MIS 593 THESIS (0-V-6)

MBA — MASTER OF BUSINESS

MBA 534 MANAGING TECHNICAL COMMUNICATION (3-0-3)(F). An advanced study of technical communication for managers and technical professionals who must originate, specify, and/or approve technical instructions, proposals, reports, and related documents. Students will acquire proficiency in writing and designing these documents by applying syntactic, semantic, and pragmatic theory and visual design principles to applied problems in document design, information access, and human information processing.

Master of Music

Department of Music
Morrison Center for the Performing Arts, Room C-100
Telephone 208 426-1596
FAX 208 426-1771
http://www.boisestate.edu
e-mail: jbelfy@boisestate.edu

Graduate Program Coordinator: Jeanne Belfy
Department Chair: James Cook
Full Graduate Faculty: Joe Baldassarre, John B. Baldwin, Jeanne M. Belfy, Lynn Berg, Marcellus Brown, James Cook, Elizabeth Gould, David Mathie, Del Parkinson, Craig Purdy, Laura Rushing-Raynes, Michael Samball
Associate Graduate Faculty: J. Wallis Bratt, James Jirak, Ritchard Maynard, David Saunders, Liana Tyson, Giselle Wyers

General Information

The Master of Music is a professional degree in music with emphasis in either 1) music education 2) performance or 3) pedagogy. The emphasis in education is designed to meet the needs of music education specialists who work in the public school system, grades K-12, or who aspire to further graduate study and teaching in music education. Music education students take courses specifically related to research, current trends, history, and philosophy in music education and general education, as well as graduate courses in music theory and history. They are also required to progress in an applied area and participate in a music ensemble. Declaring an area of emphasis of either elementary, choral, or secondary instrumental, students structure elective credits to reflect their area, and conclude their studies with a culminating activity related to their emphasis.

Performance and pedagogy majors seek to improve their performance and studio teaching skills, possibly in preparation for a performance career, further graduate study, private studio teaching, and/or collegiate applied teaching. Their course work centers around applied study, music theory and history, and pedagogy and literature courses, and culminates in a graduate recital or other appropriate culminating project.

The Department of Music is housed in the Morrison Center for the Performing Arts, with state-of-the-art performance, rehearsal, and recording facilities, including a 2,000-seat concert hall and a 200-seat recital hall. Several Steinway pianos, including a 7' and a 9' grand, are the generous gifts of Mr. and Mrs. William K. Dunkley and Dunkley Music of Boise. The J.W. Cunningham Memorial Organ, a three-manual Austin organ of 46 ranks and 59 registers, is housed in the Hemingway Western Studies Center. The Department also owns a double-manual Flemish harpsichord and a Rodgers practice organ. A full-time faculty of twenty services an undergraduate program of about 200 music majors, and offers a full range of vocal and instrumental expertise, with the assistance of many professional adjunct instructors.

The Department offers three full graduate teaching and service assistantships, and a flexible number of additional assistantships are available through the Blue Thunder Marching Band program. A cooperative program for string students exists with the Boise Philharmonic Orchestra.

Application and Admission Requirements

Admission will be granted to applicants who hold a Bachelor's degree in music (BM, BA, or BS with a music major) from an accredited college or university, and who give promise of meeting the standards set by the Department of Music and the University. It is expected that students seeking Music Education Emphasis will meet basic undergraduate requirements for public school certification. Students seeking admission to the Performance or Pedagogy Emphases must perform a satisfactory audition, in person, before the performance faculty of his/her major performance area (keyboard, winds, strings, etc.). Audition details are available from the Department of Music.

Before a graduate student can be admitted to Regular Status, predictive examinations in music history and music theory must be completed. The purpose of predictive examinations is to determine the student's strengths and weaknesses so that an individual academic program can be formulated that will best serve the student's needs. Any course used to remove deficiencies does not count toward the degree. A student who has deficiencies will be granted Provisional Status in the graduate program. When deficiencies have been removed, the student may then seek Regular Status. A description of material covered on these examinations is available from the Department of Music.

Degree Requirements

Master of Music, Music Education

Course Number and Title	Credits
Graduation Requirements: 36-39 credits minimum, stipulated below, are required for graduation. The actual number of credit hours may vary depending on the needs of individual students as determined by the results of predictive examinations. Candidates are required to establish an area of emphasis in one of the following: elementary, choral, or instrumental music education.	
1. Core Courses: MUS 503 Intro to Music Research .....3 MUS 570 New Developments in Music Education..3 MUS 576 History & Philosophy of Music Education 3	9
2. Non-Music Education Courses: Music Theory* .....3 Music History* .....3 Private Music Lessons (2 semesters minimum) ..4 Music Ensemble 2	12

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Master of Music, Music Education (continued)	
3. Music Electives: A. 6 credits in the student's area of emphasis: elementary general music, choral music, or instrumental music B. 3 credits additional approved electives in music C. No more than four (4) workshop elective credits, of which one may be a music conference credit, may be applied towards the degree.	6 3 1-4
4. Comprehensive Examination: A written comprehensive examination in music must be completed prior to registration for the student's culminating activity. This exam will be tailored to each student's graduate course work. The comprehensive exam may be taken after the completion of 27 hours of required course work to include the core courses and the 3 hours each in music history and music theory.	
5. Oral Examination: If needed, an oral examination relating to the written comprehensive examination or to the culminating activity may be requested at the discretion of the candidate's Committee.	
6. Culminating Activity (3-6 credits from one of the choices listed below): A. MUS-APL 544 Lecture-Recital .....3 B. MUS 591 Project .....3 C. MUS 593 Thesis 6	3-6
*Total Music Theory and Music History credits earned may include but not be limited to Special Topics.	
TOTAL	**33-36**

Master of Music, Performance	
Course Number and Title	**Credits**
Graduation Requirements: 32 credits minimum, stipulated below, are required for graduation. The actual number of credit hours may vary, depending on the needs of individual students as determined by the results of predictive examinations.	
Core Courses: MUS 503 Intro to Music Research .....3 MUS 557 Music Literature of Major Instrument....3 Music Theory Elective* .....3 Music History Elective* 3	12
Performance Courses: MUS 563, 564 Pedagogy I, II, or additional Music History* and/or Music Theory* .....6 MUS 465G, 466G Diction for Singers I, II** .....4 Additional Graduate level music elective.....3 MUS-PRV 5_4 Private lessons on major instrument (2 semesters minimum: private lessons must be taken each semester of residency)	17-18 8

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Master of Music, Performance (continued)	
Performance Culminating Project: MUS-APL 546 Graduate Solo Performance Recital	3
Performance Comprehensive Review: After successful completion of the culminating project, the student's committee will administer a written examination consisting of three questions, one from each committee member. The questions will cover areas of the student's recital or culminating project and course work taken toward the degree. After satisfactory completion of the written examination, the committee will meet with the student for an oral examination.	
*Total Music Theory and Music History credits earned may include but not be limited to Special Topics. **Required of all vocal performance majors.	
TOTAL	**32**

Master of Music, Pedagogy	
Course Number and Title	**Credits**
Graduation Requirements: 31 credits minimum, stipulated below, are required for graduation. The actual number of credit hours may vary, depending on the needs of individual students as determined by the results of predictive examinations.	
Core Courses: MUS 503 Intro to Music Research .....3 MUS 557 Music Literature of Major Instrument....3 Music Theory Elective*.....3 Music History Elective*.....3	12
Pedagogy Courses: MUS 563, 564 Pedagogy I, II.....6 Additional Music History and/or Music Theory* .....3-6 MUS-PRV 5_2 Private lessons on major instrument.....4 (2 semesters minimum: private lessons must be taken each semester of residency)	13-16
Pedagogy Option Culminating Project (A, B, or C) A) MUS-APL 546 Graduate Solo Performance Recital by special permission .....3 B) MUS-APL 544 Lecture/Recital.....3 C) MUS 593 Thesis 6	3-6
Pedagogy Comprehensive Review: After successful completion of the culminating project, the student's committee will administer a written examination consisting of three questions, one from each committee member. The questions will cover areas of the student's recital or culminating project and course work taken toward the degree. After satisfactory completion of the written examination, the committee will meet with the student for an oral examination.	
*Total Music Theory and Music History credits earned may include but not be limited to Special Topics.	
TOTAL	**31**

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

MUS-APL — MUSIC APPLIED - PERFORMANCE CLASSES, RECITALS

MUS-APL 529 JAZZ IMPROVISATION (1-0-1)(F/S). Private lessons in jazz improvisation. 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. Extra fee, non-waivable, per private lesson fee schedule, required. PREREQ: Graduate Standing and MU103 or PERM/INST.

MUS-APL 544 LECTURE/RECITAL (0-V-3). A full lecture/recital elected as the culminating project for the Master of Music degree, Music Education or Performance/Pedagogy emphasis major. The lecture is to demonstrate scholarly study on a selected topic and the recital is to present supportive musical examples. PREREQ: PERM/INST/ CHAIR. Graded Pass/Fail.

MUS-APL 546 GRADUATE SOLO PERFORMANCE RECITAL (0-V-3). A full recital to be presented as the culminating project for the Master of Music degree, Performance/ Pedagogy emphasis. PREREQ: PERM/INST/CHAIR. Graded Pass/Fail.

MUS-PRV — MUSIC PRIVATE LESSONS PERFORMANCE STUDIES

Students will be assigned on the basis of an audition. Performance, Technical Study, Musical Interpretation, Literature, and Teaching Technique will be stressed.

All 500 level MC courses are repeatable. See undergraduate Private Lesson Performance Studies course numbering system for explanation of course numbers.

MUS-PRV 501 (0-.5-1), 502 (0-.5-2), 504 (0-1-4). Woodwind instruments private lessons.

MUS-PRV 511 (0-.5-1), 512 (0-.5-2), 514 (0-1-4). Brass instruments private lessons.

MUS-PRV 521 (0-.5-1), 522 (0-.5-2), 524 (0-1-4). Percussion instruments private lessons.

MUS-PRV 531 (0-.5-1), 532 (0-.5-2), 534 (0-1-4). Voice private lessons.

MUS-PRV 541 (0-.5-1), 542 (0-.5-2), 544 (0-1-4). Keyboard instruments private lessons.

MUS-PRV 551 (0-.5-1), 552 (0-.5-2), 554 (0-1-4). Fretted string instruments private lessons.

MUS-PRV 561 (0-.5-1), 562 (0-.5-2), 564 (0-1-4). Bowed string instruments private lessons.

MUS-ENS — MUSIC ENSEMBLE

All MUS-ENS courses may be repeated for credit.

MUS-ENS 306G CHAMBER SINGERS (0-2-1)(F/S). A select group limited to 15 singers, that will concentrate 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. PREREQ: Audition and/or PERM/INST.

MUS-ENS 321G MARCHING BAND (0-V-1)(F). Designed to promote participation in an 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 350G ORCHESTRA (0-5-1)(F/S). The Boise State University Orchestra is composed of students and experienced musicians and prepares several concerts each season from the standard repertoire. An elective for non-music majors. Graduate music students will be expected to assume leadership roles or will be assigned extra duties within the orchestra and/or its organization. Audition is required for new students.

MUS-ENS 510 CHORAL ENSEMBLE (0-2-1)(F/S). Used for graduate participation in Meistersingers, University Singers, and Women's Chorale, by section number.

MUS-ENS 515 OPERA THEATER (0-5-1). Advanced study/experience in singing-acting technique and movement through performing in productions from the opera and/or musical theater repertoire. May be repeated for up to 4 credits maximum. PREREQ:PERM/INST.

MUS-ENS 518 EARLY MUSIC ENSEMBLE (0-3-1)(F/S). Course explores European vocal and instrumental music from the Middle Ages, Renaissance and Baroque periods through performance. Graduate music students will be expected to assume leadership roles or will be assigned extra duties within the ensemble. Concert performances by students enrolled in the course are expected each semester.

MUS-ENS 520 INSTRUMENTAL ENSEMBLE (0-V-1)(F/S). Used for concert band, percussion ensemble, keyboard ensemble, and whatever else needed, by section number.

MUS — MUSIC, GENERAL

MUS 355G ROCK MUSIC: ITS PERFORMANCE AND HISTORY (3-0-3)(F/S). Survey of history and theory of rock music from primitive beginnings in nineteenth century to the present with primary focus on music from 1950 through 1970. Includes a final performance component. Graduate students will be expected to engage in current research on the subject matter. PREREQ: MUS 220 and PERM/INST. Odd-numbered years.

MUS 410G ADVANCED FORM AND ANALYSIS (2-0-2)(S). Analysis of harmonic and formal structures of the larger binary and ternary forms; the sonata, the symphony, the concerto, Baroque forms. PREREQ: MUS 223 or equivalent or PERM/INST.

MUS 423G SIXTEENTH-CENTURY COUNTERPOINT (3-0-3)(F). Study of 16th-century compositional techniques. Compositions will be written in 2 to 4 voices, 5 species, C clefs and Latin texts. Analysis/listening of music of the period. Additional compositions and/or research for graduate credit. PREREQ: MUS 220 or equivalent. Odd numbered years.

MUS 424G COUNTERPOINT SINCE 1600 (3-0-3)(F). Study and writing in contrapuntal styles from Baroque Period to present day. Invertible counterpoint, canon, fugue, invention, analysis of procedures in representative works. Additional compositions and/or research for graduate credit. PREREQ: MUS 220 or equivalent. Even numbered years.

MUS 454G SECONDARY GENERAL MUSIC METHODS (2-0-2)(S). 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. Offered alternate, odd-numbered years.

MUS 465G DICTION FOR SINGERS I (2-0-2)(F). A course designed for singers, devoted to the understanding of the IPA (International Phonetic Alphabet) 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 Master of Music vocal performance majors and strongly recommended for all voice emphasis majors. Odd numbered years. PREREQ: 1 year of MUS-PRV voice performance studies.

MUS 466G DICTION FOR SINGERS II (2-0-2)(S). A continuation of MUS 465G 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 Master of Music vocal performance majors and strongly recommended for all voice emphasis majors. Even numbered years. PREREQ: MUS 465G or PERM/INST.

MUS 472G ADVANCED METHODS FOR ELEMENTARY MUSIC TEACHING (3-0-3)(F). 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. Offered alternate, even-numbered years. PREREQ: MUS 372 or MUS 374.

MUS 501 HISTORY OF MUSIC IN THE UNITED STATES (3-0-3) (F/S). Designed for either the non-specialist or specialist in music, this course will survey the role which music has played in the development of American culture. Vernacular and art music, as well as social and historical interrelationships with music will be examined and discussed.

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. In-depth book reviews and research papers on the subject are required. PREREQ: MUS 100 or MUS 101.

MUS 503 INTRODUCTION TO MUSIC RESEARCH (3-0-3)(F/S). This course will provide an introduction to the basic research literature pertinent to the student's major area of emphasis; an interpretation of research findings; and the means to develop skills and techniques needed for the writing of an extended research paper, thesis and/or dissertation, articles for publication and book/performance reviews.

MUS 505 SEMINAR IN CHORAL MUSIC: PERFORMANCE PRACTICES AND STYLES (3-0-3)(F/S). An historical, generic survey of the repertoire in choral literature. Emphasis will be placed on facets of interpretation through a study of representative compositions from the standpoint of performance practice, analytic techniques, and the reading of primary sources of pertinent information.

MUS 506 SEMINAR IN INSTRUMENTAL MUSIC: PERFORMANCE PRACTICES AND STYLES (3-0-3)(F/S). Analysis and study of works from the Baroque through the present era. Particular attention will be paid to performance practices of ornamentation, style, tempo, scoring, dynamics, etc. Band transcriptions also included.

MUS 511 20th-CENTURY MUSICAL STUDIES (3-0-3)(F/S). A study of 20th-century compositional techniques and performance practices through analysis, discussion of aesthetics, listening, performance, and creative writing. Contemporary techniques (and their notation), such as quartal harmonies, serialization, improvisation, electronic music, microtones, and multi-media will be explored, and their application to the secondary school music classroom will be discussed.

MUS 512 ELECTRONIC MUSIC APPLICATIONS (3-0-3)(F/S). A historical overview of electronic music and music technology. Hands-on experience with digital and analog synthesizers, effects processors, sampling, tape decks, computers and related software, and MIDI. Emphasis will be placed on the application of fundamental techniques of electronic music to creative composition.

MUS 551 SEMINAR IN MEDIEVAL THROUGH BAROQUE PERFORMANCE PRACTICES (3-0-3)(F/S). The study of music literature in Western Europe from the late Middle Ages through the Baroque period through the historical survey of performance practices and their practical application.

MUS 552 SEMINAR IN MODERN MUSIC: FORM AND STYLE (1750-1980) (3-0-3)(F/S). The study of art music in the Western World from 1750 through the present, with emphasis on selected masterworks, including score analysis, performance practice, textual background and historical context.

MUS 557 MAJOR INSTRUMENT LITERATURE (3-0-3)(F/S). Advanced survey of the major instrument literature. The student will prepare a research paper on several typical or important works in the repertoire.

MUS 561 ADVANCED CONDUCTING (3-0-3)(F/S). Designed for secondary music teachers, this course provides opportunity to discover and analyze technical conducting problems, both instrumental and choral, in music of the various historical eras, which forms a significant part of the secondary school repertoire.

MUS 563 MAJOR INSTRUMENT PEDAGOGY I (3-0-3)(F). An advanced and in-depth investigation of pedagogical techniques, materials and principles used in the private teaching studio. Readings in the philosophy of teaching will be included.

MUS 564 MAJOR INSTRUMENT PEDAGOGY II (3-0-3)(S). Development of lesson plans and supervised studio teaching in both private and group settings. Recommended preparation: MUS 563.

MUS 570 NEW DEVELOPMENTS IN MUSIC EDUCATION (3-0-3) (F/S). Designed to acquaint the music specialist with recent ideas in music education, including major trends in curriculum, new methodology, music in integrated courses, and reports of major conferences and symposia.

MUS 571 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING MUSIC IN THE ELEMENTARY SCHOOL (3-0-3) (F/S). Designed for the general classroom teacher or music specialist, the course deals with old and new approaches to teaching music in the classroom, teaching materials, current research on problem singers, creative musical activities, and the development of music reading skills. PREREQ: MUS 374 or PERM/INST.

MUS 572 LISTENING AND SINGING EXPERIENCES FOR THE ELEMENTARY SCHOOL (3-0-3)(F/S). Designed for the general classroom teacher or music specialist, the course deals with the study of singing and listening materials relevant to classroom music, K-6. Sequential curriculum plans will be developed for singing and listening experiences. PREREQ: MUS 374 or PERM/INST.

MUS 573 ADVANCED METHODS AND TECHNIQUES FOR THE INSTRUMENTAL INSTRUCTOR (3-0-3)(F/S). A study of causes and solutions for problems occurring in the instrumental rehearsal. Areas to be covered include instrumental methods and techniques, organization and repertoire planning.

MUS 574 ADVANCED METHODS AND TECHNIQUES FOR THE CHORAL INSTRUCTOR (3-0-3)(F/S). A study of causes and solutions for problems occurring in the choral rehearsal. Areas to be covered include vocal methods and techniques, organization and repertoire planning.

MUS 575 ADMINISTRATION OF SCHOOL MUSIC (3-0-3)(F/S). A seminar in problems of music supervision and administration

covering areas such as budget, scheduling, curriculum, personnel and philosophy.

MUS 576 HISTORY AND PHILOSOPHY OF MUSIC EDUCATION (3-0-3)(F/S). Includes both an introduction to the history of music education in the United States, from colonial New England to the present; and alternate views about the philosophy of music, including aesthetic experience, aesthetic education, and the nature and meaning of music.

MUS 591 PROJECT (0-V-3). Details for the culminating project can be found in requirements for Master's degree in secondary education, music emphasis.

MUS 593 THESIS (0-V-6). A scholarly paper embodying results of original research which are used to substantiate a specific view.

MUS 596 DIRECTED RESEARCH.

Master of Public Administration

Department of Public Policy and Administration
Public Affairs and Art West Building, Room 127
Telephone 208 426-1476
FAX 208 426-4370
http://ppa.boisestate.edu
e-mail: bmeyer@boisestate.edu

Department Chair and Program Coordinator:
James B. Weatherby
Full Graduate Faculty: Les Alm, Patricia Fredericksen, John Freemuth, Richard Kinney, Janet Mills, Gary Moncrief, W. David Patton, James Weatherby, Stephanie Witt
Adjunct Graduate Faculty: Daniel Chadwick, Kenneth McClure, Jeffrey Youtz

General Information

Public Administration Education: The **Department of Public Policy and Administration** offers the master's degree in public administration (MPA), an important academic nucleus of the University's designated area of emphasis in public affairs. As the urban university in Idaho located in the capital city, BSU has been given the mandate to provide educational opportunities related to public affairs education. The Department offers this degree to help fulfill that mandate. It is the only MPA accredited by the National Association of Schools of Public Affairs and Administration (NASPAA) in Idaho and one of only six in the six states surrounding Idaho.

The MPA is designed to prepare pre-service students and in-service professionals for positions of leadership in public service. Administrators and other staff members in all levels of government, non-profit organizations and private sector governmental affairs departments take advantage of the general administrative and policy analysis curriculum offered in the MPA. The curriculum provides the theoretical and practical dimensions of public management necessary to assist students seeking public service careers. The MPA has three concentrations: (1) General Public Administration (2) Environmental and Natural Resource Policy and Administration, and (3) State and Local Government Policy and Administration.

Based upon its lead role in public policy, the Master of Public Administration plays an important role in the delivery of courses in the Master of Health Science, Health Policy emphasis.

Public Administration Applied Research and Service: In keeping with the University's role and mission in public affairs, the **Center for Public Policy and Administration** is involved in a number of important training and applied research activities that have major statewide impact. In addition to a number of specialized projects funded by grants and contracts, the Center sponsors the Local Government Training Institute for Idaho's elected county officials, the Mountain West Municipal Clerks and Treasurers Institute, the Community Development Institute, the City Managers and Administrators Conference, as well as several programs for the Idaho Supreme Court.

The Center also produces handbooks that are widely used by officials throughout the state: the *Idaho Municipal Sourcebook* for city officials, the *Handbook for Elected County Officials*, and the *Idaho Legislative Manual* for legislators.

In 1995, the U.S. Environmental Protection Agency designated Boise State University as the location for its Region 10 **Environmental Finance Center**, one of only eight in the U.S. The Center's central goal, under the administration of the Department of Public Policy and Administration, is to help create sustainable systems for protecting public health and the environment by educating and training state and local officials.

Application and Admission Requirements

Students interested in the MPA program must first submit a graduate application to the Graduate Admissions Office. If approved, the applicant receives a certificate of admission to enroll in courses at BSU. This certificate of admission is a **prerequisite** to admission into the MPA program, but does not by itself guarantee admission into the MPA program. (The student is advised to consult the Graduate Admission Policies section of this catalog for more detail on admission to the Graduate College.)

Applicants admitted to the Graduate College who wish to apply to the MPA program must meet the following requirements prior to enrollment in MPA courses:

1. Meet with an advisor in the Department to discuss the admission process, the applicant's career interests, and reasons for seeking admission to the MPA program.
2. Possess a baccalaureate degree from an accredited institution.
3. Demonstrate satisfactory academic competency by attaining an overall GPA of at least 3.0 and a minimum combined score of 1,000 on the Graduate Record Examination (GRE) verbal and quantitative sections.
4. Submit official transcripts from all previous academic institutions to the Graduate Admissions Office.
5. Submit three letters of reference, in which the applicant's academic potential is evaluated, to the Chair, Department of Public Policy and Administration, Boise State University, 1910 University Drive, Boise, ID 83725-1935.

6. Submit the MPA Data Form, and a formal statement of at least 500 words explaining the applicant's educational and career objectives.
7. Complete the following academic prerequisites (through academic course work or approved equivalency exam):
   A. American National Government (3 semester credits).
   B. State and Local Government (3 semester credits).

Applicants who do not meet all of the above requirements MAY be recommended by the MPA Admissions Committee for admission with provisional graduate status. However, these students must satisfy all of the conditions of their provisional status before they will be recommended for regular graduate status.

Degree Requirements

Master of Public Administration

Course Number and Title	Credits
MPA students must successfully complete at least 36 semester credit hours of approved MPA course work. Eighteen semester credit hours are core courses. The eighteen additional semester credit hours are in the student's area of emphasis. Some students may also be required to complete the public service internship, which is explained below.	
Course Selection: Selection of courses is to be made in consultation with the student's academic advisor.	
Core Requirements: Each MPA student is required to complete the following core courses. The core courses emphasize the knowledge and skills necessary to be effective in public service management and leadership. Each class includes an exploration of student values and public service ethics. PUBADM 500 Administration in the Public Sector..3 PUBADM 501 Public Policy Process .....3 PUBADM 502 Organizational Theory .....3 PUBADM 503 Research Methods in Public Administration.....3 PUBADM 504 Public Budgeting and Financial Administration.....3 PUBADM 505 Public Personnel Administration..3	18
Area of Emphasis Requirements: An area of emphasis is a concentration or major in the program. Each MPA student is to complete 12 semester credit hours in one of the following three areas of emphasis. 1. **General Public Administration:** This area of emphasis is provided to accommodate those students desiring preparation in public administration as a "generalist," rather than a "specialist" in a particular area. Students should select the 12 credit hours of course work from the non-core MPA courses listed in this catalog.	12

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Master of Public Administration (continued)

2. **Environmental and Natural Resource Policy and Administration:** PUBADM 540 Contemporary Issues in Natural Resource and Environmental Policy and Administration .....3 PUBADM 541 Environmental and Regulatory Policy and Administration.....3 PUBADM 542 Science, Democracy and the Environment .....3 PUBADM 543 Public Land and Resource Policy and Administration.....3 3. **State and Local Government Policy and Administration:** All students in this area of emphasis take the following course: PUBADM 560 State and Local Government Policy and Administration.....3 Nine credits chosen from the following courses or approved Selected or Special Topics courses: PUBADM 520 Community and Regional Planning .....3 PUBADM 521 Intergovernmental Relations ...3 PUBADM 540 Contemporary Issues in Natural Resource and Environmental Policy and Administration **or** PUBADM 541 Environmental and Regulatory Policy and Administration .....3 PUBADM 550 The Executive and the Administrative Process.....3 Selected or Special Topics courses will be offered to supplement area of emphasis requirements.	
Electives: Students must complete 6 elective semester credit hours in addition to their area of emphasis and core requirements. These credits may be taken as course work or as a research project (PUBADM-591) which relates to their area of emphasis.	6
TOTAL	**36**
Transfer of Graduate Courses: Because of a cooperative agreement made with Idaho State University and the University of Idaho, the MPA credits earned at those institutions can, with approval, be accepted into the Boise State University program. Transfer of credit from all other institutions is limited to nine (9) semester credits.	

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Master of Public Administration (continued)	
Public Service Internship: Those MPA students without significant administrative experience in a public sector or other public affairs agency are to complete a public service internship. The internship is served in a government office at the local, state or national level or in an appropriate public affairs organization, such as a private, nonprofit agency. **The credits received for the internship are in addition to the 36 semester credit hours from the core area and area of emphasis.** The internship component comprises six (6) semester credit hours. The internship is meant to be a meaningful experience for both the MPA student and the organization in which the internship is served. Through the internship, students can further enhance their preparation for administrative work. At the same time, they are expected to make a valuable contribution to their assigned organizations. Therefore, the internship is usually served when the student is near completion of the MPA program.	6

Course Offerings

PUBADM — PUBLIC ADMINISTRATION

PUBADM 500 ADMINISTRATION IN THE PUBLIC SECTOR (3-0-3)(F/S). Designed to introduce students to the broad field of public administration at the graduate level. The course surveys a number of important issues in contemporary public administration, including an emphasis on political, legal, economic and social institutions and processes.

PUBADM 501 PUBLIC POLICY PROCESS (3-0-3)(F/S). Process of policy-making both within an agency and within the total governmental process, emphasizing policy and program planning, policy implementation and the value system of administrators.

PUBADM 502 ORGANIZATIONAL THEORY (3-0-3)(F/S). Theories of organization behavior and management, with special attention given to public sector organizations. Issues and problems related to the non-profit sector will also be addressed.

PUBADM 503 RESEARCH METHODS IN PUBLIC ADMINISTRATION (3-0-3)(F/S). An introduction to quantitative and qualitative data analysis with an emphasis on using descriptive and inferential statistics as tools in both public policy analysis and public program analysis. The use of quantitative analysis to support management decision making is examined. Computers, especially microcomputers, will be used in the analysis of quantitative data.

PUBADM 504 PUBLIC BUDGETING AND FINANCIAL ADMINISTRATION (3-0-3)(F/S). Determination of fiscal policy, budgeting processes, and governmental forms of budgeting. Consideration of fiscal policy and processes in various program areas. Emphasis on the interface between technical and political processes.

PUBADM 505 PUBLIC PERSONNEL ADMINISTRATION (3-0-3)(F/S). An examination of the personnel/human resource management role as it has evolved in the public sector. The multiple responsibilities of personnel managers in the public sector will be examined, and the link between public policy and personnel management will be identified.

PUBADM 511 DECISION TECHNIQUES FOR PUBLIC ADMINISTRATORS (3-0-3)(F/S). Methods for operations research and management science are used to analyze decisions as well as to plan and monitor program implementation. The usefulness of these methods in public sector and other public affairs organizations is considered.

PUBADM 520 COMMUNITY AND REGIONAL PLANNING (3-0-3)(F/S). A study of the theories, objectives, techniques, and problems of governmental planning within cities, metropolitan areas, and regions, as well as at the national level of government in the United States. A discussion of the planning profession and the politics of planning.

PUBADM 521 INTERGOVERNMENTAL RELATIONS (3-0-3)(F/S). Interunit cooperation and conflict in the American federal system, including national-state-local, and interlocal relations.

PUBADM 530 ADMINISTRATIVE LAW AND REGULATION (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.

PUBADM 531 LABOR RELATIONS IN THE PUBLIC SECTOR (3-0-3)(F/S). A case study of the trends and development of the legal context of labor-management relations in the public sector, including collective bargaining relationships, management rights and responsibilities, political and civil rights of public employees, and alternative modes of dispute resolution. Collective bargaining and grievance exercises will be conducted.

PUBADM 540 CONTEMPORARY ISSUES IN NATURAL RESOURCE AND ENVIRONMENTAL POLICY AND ADMINISTRATION (3-0-3)(F/S). Examines current and topical issues and controversies in natural resource and environmental policy from the perspective of public policy and public administration.

PUBADM 541 ENVIRONMENTAL AND REGULATORY POLICY AND ADMINISTRATION (3-0-3)(F/S). Examines aspects of environmental regulatory politics and policy. Topics examined include the politics of regulation, pollution and energy policy, and intergovernmental environmental management.

PUBADM 542 SCIENCE, DEMOCRACY AND THE ENVIRONMENT (3-0-3)(F/S). Examines the role of science and scientists in the formation of U.S. environmental policy making. Special attention is given to the tension between elite and democratic forms of decision making.

PUBADM 543 PUBLIC LAND AND RESOURCE POLICY AND ADMINISTRATION (3-0-3)(F/S). Examines the major issues, actors, and policies affecting the public lands and resources of the United States. Special attention is paid to the processes, institutions, and organizations that influence how public land policy and resource policy is made.

PUBADM 550 THE EXECUTIVE AND THE ADMINISTRATIVE PROCESS (3-0-3)(F/S). This course covers the powers and responsibilities of elected and appointed executives in the public sector. Concepts examined in the class include leadership and management, executive roles, management theories and styles, relationships with the separate branches of government and other actors in the political environment. The unique position of the executive between politics and administration and the relevant activities in policy formation through implementation form the basis of discussion.

PUBADM 560 STATE AND LOCAL GOVERNMENT ADMINISTRATION (3-0-3)(F/S). This course examines state and local government administration in a political and organizational context and the role of state and local governments in policy administration within the U.S. federal system.

PUBADM 570 PUBLIC MANAGEMENT SKILLS AND TECHNIQUES (3-0-3)(F/S). This course addresses such knowledge and skills for managers and leaders in public organizations as: personal assessment; leading and managing others; aspects of self and others which underlie behavior; managing stress and time; decision making; public participation; working with elected and appointed public officials; working with the media; solving problems; communicating supportively and assertively; appropriately using power and influence; understanding motivational processes; managing conflicts; empowering and delegating; and building teams.

PUBADM 571 ETHICS IN THE PUBLIC SECTOR (3-0-3)(F/S). Examination of ethical dilemmas facing civil servants and elected officials utilizing case studies, current ethics statutes, and approaches in the public administration literature to the subject.

SELECTED TOPICS (1-3 Variable). To be offered as staff availability permits:

PUBADM 580 ADMINISTRATIVE THEORY AND PRACTICE

PUBADM 581 NATURAL RESOURCE & ENVIRONMENTAL POLICY

PUBADM 582 PUBLIC POLICY AND POLICY ANALYSIS

PUBADM 583 PUBLIC MANAGEMENT SKILLS AND TECHNIQUES

PUBADM 584 STATE AND LOCAL GOVERNMENT POLICY AND ADMINISTRATION

PUBADM 585 INTERGOVERNMENTAL RELATIONS

PUBADM 586 COMMUNITY AND REGIONAL PLANNING

PUBADM 590 PUBLIC SERVICE INTERNSHIP (variable credit). Arranged as field experience for those students with no prior experience in governmental or other organizational assignments. Such internships will be established and arrangements made for placement through the MPA Internship Director.

PUBADM 591 PROJECT (1-6 credits). A special project undertaken by the MPA student as advanced tutorial study in a specialized area according to the needs and interests of the student. Course embodies research, discussions of the subject matter and procedures with a designated professor and a documental paper covering the subject of the independent study.

PUBADM 595 READING AND CONFERENCE (1-4 credits). Directed reading on selected materials in public administration and discussion of these materials, as arranged and approved through major advisor.

PUBADM 597 SPECIAL TOPICS (1-3 credits). These courses are offered occasionally. Examples of Special Topics courses offered include Grant Writing, The Politics of Volunteerism, Organizational Leadership, and Practical Management Strategies for Non-Profit Organizations.

PUBADM 599 CONFERENCE OR WORKSHOP (1 credit). Conferences or workshops covering various topics in public administration may be offered on an irregularly scheduled basis, according to student interest and staff availability. No more than 3 credits provided through conferences or workshops can be applied toward the MPA.

Master of Science in Raptor Biology

Department of Biology
Science/Nursing Building, Room 223
Telephone 208 426-3262
FAX 208 426-4267
http://www.boisestate.edu/biology/
e-mail: adufty@email.boisestate.edu

Graduate Program Coordinator: Alfred Dufty
Department Chair: James Munger
Raptor Research Center Director: Mark Fuller
Full Graduate Faculty: Marc Bechard, James Belthoff, Russell Centanni, Alfred Dufty, Dorothy Douglas, Cheryl Jorcyk, James Long, Richard McCloskey, James Munger, Stephen Novak, Julia Thom Oxford, Robert Rychert, Marcelo Serpe, James Smith, Marcia Wicklow-Howard
Associate Graduate Faculty: Ian Robertson, Troy Rohn
Adjunct Graduate Faculty: Charles Baker (Emeritus), Jonathan Bart, John Beecham, William Burnham, Tom Cade (Emeritus), Dorothy Douglas (Emerita), Susan Earnst, Eugene Fuller (Emeritus), Mark Fuller, Nicholas Hadjokas, Stuart Hardegree, Lloyd Kiff, Steven Knick, Michael Kochert, Yongsheng Ma, Carl Marti, Jr., John Marzluff, Bill Mattox, Rosemary Mazaika, Hugh McIsaac, Wayne Melquist, Richard Olson, Rebecca Pullen, Bruce Rieman, Gary Roloff, Roger Rosentreter, Randall Ryan, Victoria Saab, Rex Sallabanks, Michael Spence, Karen Steenhof, Dennis Stevens, Richard Watson, David Whitacre, Clayton White, Rick Williams, Denise Wingett

General Information

The Master of Science degree program in Raptor Biology is designed for students to enhance their knowledge and understanding of raptor biology and ecology.

Admission Requirements

Enrollment in the program is limited. Applications are due February 1 for fall admission and October 1 for spring admission. For additional information on the department, faculty, and potential projects, visit the departmental web site (www.boisestate.edu/biology/). To apply:

1. Send the following three items to: Graduate Admissions Office, Boise State University, 1910 University Drive, Boise, ID 83725-1110.
   - A graduate application along with the $20.00 matriculation fee. Please submit the application *PRIOR* to submitting any additional items.
   - Have the Registrar(s) of *ALL* post-secondary institutions attended send official transcripts to the Graduate Admissions Office.
   - Have Graduate Record Exam scores forwarded to the Graduate Admissions Office.
2. Send the following to: Graduate Coordinator, Department of Biology, Boise State University, Boise, ID 83725-1515.

- A cover letter discussing professional goals and reasons for wishing to study raptor biology at Boise State University. Applicants should also discuss research interests, especially as they mesh with those of faculty members. Also note any contact you have had with faculty members.
- Three letters of recommendation.

All individuals admitted to REGULAR STATUS as graduate students in raptor biology must have:

- an undergraduate GPA of at least 3.00 on a 4-point system;
- results that average in the 50th or higher percentile in the verbal, quantitative, and analytical portions of the GRE exam;
- an undergraduate degree in biology or a closely related field.

PROVISIONAL STATUS may be granted to those otherwise promising applicants who do not meet GPA or GRE requirements or who have undergraduate course work deficiencies.

Initial evaluation of applicants will be undertaken by the Graduate Student Oversight Committee; final decisions on admission will depend on qualifications of the candidates and openings that exist.

Each student who has been accepted into our program will form an advisory committee, which will consist of at least three members: the student's major professor and two other members. The committee will determine if academic deficiencies exist that must be remedied, help design thesis research, help choose appropriate graduate course work, evaluate the thesis and conduct the final defense.

Financial Aid

Teaching Assistantships that include a stipend, a tuition and fee waiver, and student health insurance will be available on a competitive basis. Additional support for master's research projects is available from faculty members. Other forms of financial aid, such as loans or the College Work Study Program, are available to graduate students. Prospective students should contact the Financial Aid Office and consult the BSU catalog.

Students may apply for admission at any time; however, applications must be completed by February 1 (for Fall Semester admission) in order to be considered for assistantships. Other forms of financial aid, such as loans or the College Work Study Program, are available to graduate students. Prospective students should contact the Financial Aid Office and consult the BSU catalog. Enrollment in the program is limited.

Degree Requirements

Students will be expected to produce a written thesis proposal and give an oral presentation of that proposal during their first year. Completion of the program requires an average grade of B or better for all courses applied to the 30 credits required, an oral defense of the thesis results, and an exit seminar to present results to faculty, students, and the public. All requirements for the degree and graduation must be completed within a period of seven years.

Master of Science in Raptor Biology

Course Number and Title	Credits
BIOL 501 Biometry	4
BIOL 598 Graduate Seminar	2
BIOL 593 Thesis	6
Electives from course offerings that follow: Electives may include a maximum of six credits of Directed Research, must be approved by the student's thesis committee, and may not include workshop credits.	18
Total	**30**

Course Offerings

Additional work will be required to receive graduate credit for undergraduate G courses.

BIOL — BIOLOGY

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

BIOL 323G ECOLOGY (3-3-4)(F/S). A study 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 202 and BIOL 203 or PERM/INST.

BIOL 331G PHARMACOLOGY (3-0-3)(F). An examination of basic pharmacological principles including mechanisms of drug action in relation both to drug-receptor interactions and to the operation of physiological and biochemical systems. Topics will include 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 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 401G ORGANIC EVOLUTION (3-0-3)(S). Philosophical basis of evolutionary theory. Detailed examination of genetic variation, mechanisms of evolutionary change, adaptation, specialization, phylogeny. Genetics recommended. PREREQ: BIOL 323 and BIOL 343 or PERM/INST.

BIOL 412G GENERAL PARASITOLOGY (2-3-3)(Offered occasionally). 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 415G APPLIED AND ENVIRONMENTAL MICROBIOLOGY (3-3-4)(S). Microbial populations and processes in soil and water. Water and food-borne pathogens. Microbiological and biochemical

methods of environmental assessment. PREREQ: BIOL 303 or BIOL 205 and CHEM 317-319, or PERM/INST.

BIOL 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 445G HUMAN GENETICS (3-0-3)(S). Taught 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 501 BIOMETRY (4-0-4)(F). An application of statistical methods to problems in the biological sciences. Basic concepts of hypothesis testing; estimation and confidence intervals; t-tests and chi-square tests. Linear and nonlinear regression theory and analysis of variance. Techniques in multivariate and nonparametric statistics. PREREQ: MATH 147 or equivalent, or PERM/INST.

BIOL 502 POPULATION AND COMMUNITY ECOLOGY (3-0-3)(F). The structure of populations and communities. Competition, predation, life history strategies, demography, population regulation, and species diversity are examined from experimental and theoretical perspectives. PREREQ: BIOL 423 or equivalent, or PERM/INST.

BIOL 503 ADVANCED BIOMETRY (3-3-4)(S). A survey of experimental design and selected multivariate techniques. The course is designed to assist students in selecting proper statistical techniques for gathering and analyzing biological data, and correctly interpreting the statistical analysis of their data. Prior experience with Statistical Analysis System (SAS) is helpful. Offered even-numbered years. PREREQ: BIOL 501 or PERM/INST.

BIOL 504 TEACHING ASSISTANT SKILLS AND ISSUES (2-0-2). Discussion of learning styles, testing strategies, disability issues, and other topics relevant to being a teaching assistant for undergraduate biology laboratories. PREREQ: PERM/INST.

BIOL 505 APPLIED RAPTOR BIOLOGY (0-3-2)(F)(Offered odd-numbered years). A study of the techniques appropriate to the study of the ecology, behavior, and physiology of raptors and other birds. Field trips will be taken in addition to regularly scheduled class. PREREQ: Graduate standing in Biology or Raptor Biology or PERM/INST.

BIOL 506 RAPTOR ECOLOGY (3-0-3)(S). Theoretical ecology as applied to birds of prey. Strategies of reproduction, habitat selection, foraging and spacing; theory of competition and predator-prey interactions; niche theory and community structure; raptor management. PREREQ: BIOL 323 or equivalent, or PERM/INST.

BIOL 517 SPECIES AND SPECIATION (3-0-3)(F). Species definitions are fundamental for all investigations in the biological sciences. This course will investigate the numerous species concepts proposed over the last 100 years with an emphasis on primary literature. Concepts to be discussed will include biological, phylogenetic, genealogical, and evolutionary species concepts. The second part of the course will emphasize the processes involved in speciation, looking at both micro- and macroevolutionary events. Offered odd-numbered years. PREREQ: BIOL 401-401G (or equivalent) or PERM/INST.

BIOL 522 CONSERVATION BIOLOGY (3-0-3)(S). 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, overexploitation, and restoration ecology. Discussion of the social, political, and economic aspects of conservation biology. Offered in odd-numbered years. PREREQ: BIOL 323.

BIOL 526 INSECT ECOLOGY (3-0-3)(S)(Offered even-numbered years). An in-depth exploration of insect ecology, evolution and behavior. Topics include 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 527 STREAM ECOLOGY (3-3-4)(F). The biology and ecology of flowing waters is emphasized; their biota, management, and ecology at both the community and ecosystem level will be discussed. Offered odd-numbered years. PREREQ: BIOL 323 or BIOL 323G or PERM/INST.

BIOL 528 GEOGRAPHIC INFORMATION SYSTEMS IN BIOLOGY (3-0-3)(S). Discussion of the use of Geographic Information Systems to apply spatial data to ecological problems. Analysis of the ways that spatial relations affect patterns, processes, and decision making at multiple scales. Specific topics covered include GAP analysis, habitat modeling, spatially-explicit population modeling, landscape ecology, home range analysis, interpretation of satellite imagery, and natural resource issues. PREREQ: Graduate standing or PERM/INST.

BIOL 529 MODERN METHODS IN ECOLOGY AND BEHAVIOR (2-3-3)(S). Instruction in the theory, practice, and analysis of modern methods used in ecological and evolutionary studies will be provided. Methods to be covered include: cytology, isozyme electrophoresis, DNA restriction site analysis, DNA sequencing, and RAPD analysis. Offered odd-numbered years. PREREQ: PERM/INST.

BIOL 533 BEHAVIORAL ECOLOGY (3-0-3)(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 BIOL 323G or PERM/INST.

BIOL 541 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 542 MOLECULAR NEUROBIOLOGY (3-0-3)(F). Emphasis will be on the molecular aspects of neurobiology. Topics will include: 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 561 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 562 ADVANCED TOPICS IN ANIMAL BEHAVIOR (2-0-2)(F/S). An 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 565 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 566 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 or BIOL 565 is recommended. PREREQ: BIOL 343 and PERM/INST.

BIOL 579 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. Graded pass/fail. May be repeated once for credit.

BOT — BOTANY

BOT 302G PLANT ANATOMY AND MICROTECHNIQUE (3-3-4) (F). 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. Offered odd-numbered years. PREREQ: BIOL 203 and BIOL 301 or PERM/INST.

BOT 305G SYSTEMATIC BOTANY (2-6-4)(S). Fundamental problems of taxonomy. Discussion of historical developments of classification systems and comparison of recent systems. Instruction on the use of keys and manuals. PREREQ: BIOL 203 or PERM/INST.

BOT 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 203 or PERM/INST.

BOT 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 203, PERM/INST.

BOT 401G PLANT PHYSIOLOGY (3-3-4)(F). 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. Offered odd-numbered years. PREREQ: BIOL 203 and CHEM 317 or PERM/INST.

BOT 524 PLANT COMMUNITY ECOLOGY (3-3-4)(F). 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 interaction 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. Offered even-numbered years. PREREQ: BIOL 323 or BIOL 323G or PERM/INST.

BOT 541 PLANT DEVELOPMENTAL BIOLOGY (3-3-4)(S). A description of plant development from a molecular and cellular perspective. Topics discussed include gene expression and cell signaling pathways, and their roles in the control of embryogenesis, plant growth, flowering, and fruit maturation. Examination of techniques and model systems used in the study of plant development. Each student will complete a project. Offered even-numbered years. PREREQ: BIOL 301.

ZOOL — ZOOLOGY

ZOOL 301G COMPARATIVE VERTEBRATE ANATOMY (2-6-4) (F). The evolutionary development of vertebrate anatomy, fishes through mammals. Dissection of the shark, salamander, cat plus demonstrations of other vertebrate types. PREREQ: BIOL 202 or PERM/INST.

ZOOL 305G ENTOMOLOGY (2-6-4)(F). This course examines the general anatomy, physiology and developmental biology of insects, as well as their ecological and evolutionary relationships and interactions 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 341G ORNITHOLOGY (2-3-3)(S). Birds as examples of biological principles: classification, identification, ecology, behavior, life histories, distribution, and adaptations of birds. Two weekend field trips. Offered odd-numbered years. PREREQ: BIOL 191-192 or PERM/INST.

ZOOL 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 202 or PERM/INST.

ZOOL 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 202 or PERM/INST.

ZOOL 400G VERTEBRATE HISTOLOGY (2-6-4)(S)(Offered even-numbered years). Microscopic anatomy of cell, tissues, and organ systems of vertebrates. Major emphasis will be on mammalian systems. ZOOL 301 or ZOOL 351 is recommended prior to enrollment. PREREQ: BIOL 191-192 or PERM/INST.

ZOOL 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 421G MAMMALOGY (2-3-3)(S). The biology of mammals: ecology, life histories, reproduction, classification, identification, distribution, and adaptations. One weekend field trip. Offered even-numbered years. PREREQ: BIOL 323 or an upper division Zoology course.

ZOOL 509 GENERAL AND COMPARATIVE PHYSIOLOGY (3-3-4)(S). Physiological principles common to all forms of animal life are discussed. Physiological adaptations required to live in a variety of environments are presented. PREREQ: BIOL 202, CHEM 317, PERM/INST.

ZOOL 515 AVIAN PHYSIOLOGY (3-0-3)(F). The physiology of flight, cardiovascular, pulmonary, digestive, water and electrolyte, egg, and reproductive physiology are covered. Correlations between unique

aspects of avian structure and function are emphasized. Offered odd-numbered years. PREREQ: Graduate standing or PERM/INST.

ZOOL 525 AQUATIC ENTOMOLOGY (3-3-4)(F). 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 534 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. Offered odd-numbered years. PREREQ: BIOL 323 or BIOL 323G or PERM/INST.

ZOOL 535 BEHAVIORAL ENDOCRINOLOGY (3-0-3)(F). An examination of the endocrine system and the hormonal mechanisms associated with social behavior and aggression, reproductive and parental behavior, biological rhythms, etc. Each student is expected to investigate and lead a discussion on an assigned topic. Offered even-numbered years. PREREQ: Animal Physiology or PERM/INST.

SPECIAL TOPICS. Courses are offered in response to student interest and are in addition to formal courses listed above.

Master of Arts in School Counseling

Department of Counselor Education
Education Building, Room 609
Telephone 208 426-1219 or 426-1209
e-mail: mmiller@boisestate.edu

Department Chair and Graduate Program Coordinator: Margaret Miller
Full Graduate Faculty: Bobbie Birdsall, Kenneth Coll, Rich Downs, Sara LaRiviere, Margaret Miller, Anne Marie Nelson, Jim Nicholson,
Adjunct Graduate Faculty: Mary L. Ensley, Brenda Freeman, Susan Reuling Furness, Tim Furness, Nancy Kobe, Steven Lanzet, Phyllis Nodler, Jim Schmidt, Barry Watts

General Information

The Master of Arts in School Counseling prepares individuals in education and related careers to become professional counselors at the elementary, middle, and secondary school levels. The program is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP), National Council for the Accreditation of Teacher Education (NCATE), and the Northwest Association for Schools and Colleges (NWASC). The Program is designed to meet or exceed Idaho Department of Education qualifications for certification in school counseling and the State Board of Occupational Licenses' criteria for licensure as a professional counselor. An additional series of electives provides courses leading to certification as an additions counselor.

Course work is offered in sequence during evenings and weekends of fall and spring semesters with students enrolling in six to nine credits each semester and enrolling in seven to ten credits offered in the daytime during the summer sessions.

Application and Admission Requirements

In addition to meeting the admission requirements and deadlines of the Graduate College, the student must apply for admission to and be accepted by the Counseling Program Admissions Committee. Enrollment is competitive with a new cohort beginning the Program each fall.

Submit, in one packet, to the Counseling Department Admissions Committee (annual deadline is March 1):

- a letter of application describing your professional experiences as they support your desire to be a school counselor, specific career goals, and reasons for your interest in this program. Include in the letter your vision about the role of a school counselor in the public schools;
- up-to-date resume;
- complete post-secondary transcripts (noncertified copies accepted); and
- three current, sealed letters of reference supporting your qualifications for a school counseling program and for graduate work.

An on-campus pre-admission interview and writing sample are required of all finalists. When attendance is an extreme hardship for the applicant, special arrangements may be made (such as a conference telephone interview or alternate site interview). No other pre-admission testing is required. A criminal background check prior to placement in a school setting is also required of all students.

Degree Requirements

The Master of Arts in School Counseling degree consists of a minimum of sixty (60) semester hours of course work designed to prepare professionals to counsel with youth in school settings. Courses promote the acquisition of the knowledge and skill development in the eight core areas listed in CACREP Standards: Human Growth and Development, Social and Cultural Foundations, Helping Relationships, Group Counseling, Lifestyle and Career Development, Appraisal, Research and Evaluation, and Professional Orientation. Specific course work in each of the eight components is listed below. Electives offered ad hoc or in rotation are designed to maximize flexibility while reflecting current training trends in school counseling.

Master of Arts in School Counseling

Master of Arts in School Counseling	
Course Number and Title	**Credits**
Human Growth and Development COUN 511 Lifespan Development and Family Systems ....3 COUN 524 Interventions....2 COUN 530 Managing Developmental School Programs 2	7
Social and Cultural Foundations COUN 508 Ethics and Legal Issues in Counseling....3 COUN 509 Culturally Aware Counseling....3 COUN 522 Counseling for Special Needs 2	8
Helping Relationships COUN 502 Counseling Theories ....3 COUN 505 Counseling Skills I ....3 COUN 506 Counseling Skills II 2	8
Group Counseling COUN 503 Group Experience Lab ....0 COUN 513 Group Counseling....3	3
Lifestyle and Career Development COUN 507 Career Development and Vocational Counseling....3	3
Appraisal COUN 504 Measurement and Evaluation in School Counseling....3	3
Research and Evaluation COUN 512 Statistics and Research Design....3	3
Professional Orientation COUN 501 Foundations in Counseling....3 COUN 519 Elementary School Counseling....2 or COUN 520 Secondary School Counseling....2 or COUN 529 Middle School Counseling 2	5
Practica COUN 514 Counseling Practicum I ....2 COUN 516 Counseling Practicum II....2	4
Internships COUN 526 Internship in Counseling I ....4 COUN 528 Internship in Counseling II 4	8
Electives	8
TOTAL	**60**

Students incorporate theory and knowledge into an increasingly advanced application of skills throughout the program—fine tuning an individualized counseling approach through audio and video taped interviews in counseling labs, participation in counseling practica using one-way mirrors, and supervised experience in the community, school, and student outreach clinics. The student's culminating activity includes a written comprehensive exam and videotaped evidence of skill and theory integration supported by a comprehensive portfolio demonstrating professional growth and counseling knowledge with culturally appropriate awareness. Each student works closely with a Program Advisor and a Supervisory Committee in preparing the portfolio. Prior to working in the schools, students will obtain a fingerprint/background check and submit the results directly to the Counselor Education Department Chair. Students have considerable latitude in selecting internship sites to maximize their experience in line with specific career goals with at least half of the 700-hour internship experience occurring in a school setting. During one semester of the Program each student counselor is expected to participate in personal individual or group counseling sessions with a licensed counselor not involved in Program instruction.

PROGRAM SEQUENCE (Suggestion only)

See the course descriptions for prerequisites.

Fall: Year 1....6 credits
- COUN 501 Foundations in Counseling (3)
- COUN 502 Counseling Theories (3)
- COUN 503 Group Experience Laboratory (0)

Spring: Year 1....9 credits
- COUN 505 Counseling Skills I (3)
- COUN 509 *Culturally Aware Counseling (3)
- COUN 512 Statistics and Research Design (3)

Summer: Year 1....7 credits
- COUN 506 Counseling Skills II (2)
- COUN 511 Lifespan Development and Family Systems (3)
- COUN 530 *Managing Developmental School Programs (2)

Fall: Year 2....5-8 credits
- COUN 508 *Ethics and Legal Issues in Counseling (3)
- COUN 514 Counseling Practicum I (2)
- Elective

Spring: Year 2....5-8 credits
- COUN 507 *Career Development and Vocational Counseling (3)
- COUN 516 Counseling Practicum II (2)
- Electives (2-6)

Summer: Year 2....6 credits
- COUN 504 Measurement and Evaluation in School Counseling (3)
- COUN 513 Group Counseling (3)

Fall: Year 3....6-8 credits
- COUN 522 *Counseling for Special Needs (2)
- COUN 526 Internship in Counseling I (4)
- Electives (2-4)

Spring: Year 3....6-8 credits
- COUN 524 *Interventions (2)
- COUN 528 Internship in Counseling II (4)
- Elective

Program Minimum Total....60 credits

Note: Students must take at <u>least one</u> course from the following:
- COUN 519 *Elementary School Counseling (2 cr.) Offered fall of odd numbered years.
- COUN 520 *Secondary School Counseling (2 cr.) Offered spring of even numbered years.
- COUN 529 *Middle School Counseling (2 cr.) Offered fall of even numbered years.

See current *BSU Directory of Classes* for additional elective opportunities.

*Courses available to non-program counselors and graduate students.

Course Offerings

COUN — COUNSELING

COUN 445G ALCOHOL/DRUG ABUSE AND THE FAMILY (3-0-3)(F,S). Cross listed HLTHST 445G. 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. Legal, social, ethical, and health implications will be investigated. This course may only be taken for HLTHST or COUN. PREREQ: COUN 415G or PERM/INSTR.

COUN 501 FOUNDATIONS IN COUNSELING (3-0-3)(F). Provides an introduction to professional, ethical, legal, theoretical, cultural, social, and practical aspects of counseling. Students examine the roles and responsibilities of counselors; professional organizations and associations; and professional preparation standards. Historical, cultural, and social contexts along with emerging professional issues and directions are included. PREREQ: Admission to the Counseling Program.

COUN 502 COUNSELING THEORIES (3-0-3)(F). Students examine historical and contemporary theories of counseling including an overview of counseling process and practice related to major approaches. As a culminating activity each student will develop an individualized perspective toward counseling. PREREQ: Admission to the Counseling Program.

COUN 503 GROUP EXPERIENCE LAB (0-1-0)(F). Students will become participants in group experiences that will provide opportunities for team building, personal growth, increased self-awareness as counselors-in-training, and increased awareness of the group process itself. Initial experience is scheduled during the student's first semester with the follow-up scheduled during the second semester. PREREQ: Admission to the Counseling Program.

COUN 504 MEASUREMENT AND EVALUATION IN SCHOOL COUNSELING (3-0-3)(SU). Students will access theory and practice of standardized test development and procedures; applications and limitations of standardized tests; techniques of administering individual/group tests and of interpreting assessment instruments and profiles; and communication strategies with clients, parents, school personnel, and relevant professionals. PREREQ: COUN 512 or similar graduate statistics course.

COUN 505 COUNSELING SKILLS I (1-2-3)(S). Students will examine basic skills and characteristics involved in becoming effective counselors; will articulate, practice and demonstrate basic mastery of these skills and characteristics; will develop a systematic approach to the counseling process; and will assess personal strengths and limitations related to becoming professional counselors. PREREQ: COUN 501 and COUN 502.

COUN 506 COUNSELING SKILLS II (1-1-2)(SU). Students focus on advanced skills and concepts of effective counseling, and will articulate, practice, and demonstrate mastery of these skills and concepts. PREREQ: COUN 505.

COUN 507 CAREER DEVELOPMENT AND VOCATIONAL COUNSELING (3-0-3)(S/SU). Provides an overview of the major career development theories, vocational guidance and occupational/educational information sources and systems. Career development program planning, resources, computerized information systems, and evaluation will be included. Emphasis will be placed on how career counseling and vocational guidance are practiced by the school counselor. PREREQ: Admission to the Counseling Program or Masters in Counseling.

COUN 508 ETHICS AND LEGAL ISSUES IN COUNSELING (3-0-3)(F/SU). Examination of ethical, legal, and professional issues involved in counseling. Analysis of questionable situations and practitioner decision making in relation to the ethical standards of the American Counseling Association and laws governing professional counselors. PREREQ: COUN 505 or Masters in Counseling.

COUN 509 CULTURALLY AWARE COUNSELING (3-0-3)(S/SU). Students participate in an examination of the impact of cultural diversity among races, ethnic groups, genders, and social classes on personality, value systems and the counseling relationship with an understanding of societal changes and trends; human roles in societal subgroups; social mores and interactional patterns; and differing lifestyles with special attention to the influence of cultural and social change on family relationships, gender equity, and individual adjustment. Students examine their own attitudes, behaviors, perceptions, and biases and are encouraged to develop their own culturally aware approach to teaching, counseling, or administration. PREREQ: COUN 506 or Masters in Counseling.

COUN 510 COUNSELING TECHNIQUES FOR CHEMICAL DEPENDENCY (3-0-3)(F/S). Cross-listed MHLTHSCI 549. A study of counseling techniques and practices used in dealing with people of all ages who are chemically dependent. Special attention will be paid to the impact of chemical dependency in family members and counseling strategies for adolescents. This course may only be taken for either COUN or MHLTHSCI but not both. PREREQ: COUN 505 or Masters in Counseling.

COUN 511 LIFESPAN DEVELOPMENT AND FAMILY SYSTEMS (2-2-3)(SU). Students examine theoretical constructs related to the developmental process and examine developmentally based behavior patterns across the age spectrum with emphasis on family structure, climate, and interactions. Opportunities are presented for student participation in parenting skills classes and family systems work. PREREQ: COUN 505.

COUN 512 STATISTICS AND RESEARCH DESIGN (2-2-3)(S). Students will gain the fundamentals of statistics as they analyze counseling and educational data with emphasis on the review and interpretation of research literature (particularly in the areas of child development and psychotherapy), experience the role of computers in statistical analysis, and discover the relationships among measurement, design, and statistics. PREREQ: COUN 501.

COUN 513 GROUP COUNSELING (2-2-3)(SU). Students will focus on the concepts and skills necessary to understand and lead counseling groups in schools and other settings. PREREQ: Completion of COUN 516 with grade of at least "B".

COUN 514 COUNSELING PRACTICUM I (1-2-2)(F). Students participate in closely supervised counseling experiences through modeling, peer counseling, audio and/or video taping. PREREQ: Completion of COUN 506 with grade of at least "B".

COUN 516 COUNSELING PRACTICUM II (1-2-2)(S). Participation in supervised counseling experiences in a counseling practicum with increasing emphasis in student's area of specialization or interests. PREREQ: Completion of COUN 514 with a grade of at least "B".

COUN 518 ADVANCED COUNSELING PRACTICUM/ INTERNSHIP (1-4-3)(F,S,SU). Students participate in supervised counseling experiences in BSU's Counseling and Testing Center. Maximum and minimum enrollment is five students. PREREQ: Prior approval by Instructor and Department Chair (See Center for application process.).

COUN 519 ELEMENTARY SCHOOL COUNSELING (2-0-2)(F). Provides an overview of elementary school counseling. Students will explore the evolving roles and responsibilities of elementary school

counselors including curriculum development, parent and teacher consultation, and parent education. Emphasis will be placed on the organization and implementation of the "Idaho Comprehensive Guidance and Counseling Model" while observing in an elementary school setting. Studies will include small group counseling, classroom presentation, and child counseling skills. PREREQ: COUN 506 and COUN 530 or Masters in Counseling.

COUN 520 SECONDARY SCHOOL COUNSELING (2-0-2)(S). Students explore the evolving roles and responsibilities of high school counselors including curriculum development, parent and teacher consultation, parent education, job/school partnerships, and developmental lifespan planning. Emphasis is on the organization and implementation of the "Idaho Comprehensive Guidance and Counseling Model" while observing in a secondary school setting. PREREQ: COUN 506 and COUN 530 or Masters in Counseling.

COUN 521 OUTREACH THROUGH PARENT EDUCATION (1-0-1)(S). Students will learn the philosophy and rationale for parent education, become familiar with parent education materials, and gain skills necessary to facilitate parent education groups. This course presents materials used by the Parent Education Center in the Boise School District. Students must take either this course or Boise District's Parent Education Facilitator Training to be eligible to provide parent education classes. PREREQ: Admission to the Counseling Program or Master in Counseling.

COUN 522 COUNSELING FOR SPECIAL NEEDS (2-0-2)(F/SU). Information on the laws, regulations, techniques and interventions needed by professional counselors when working with individuals with disabilities or other challenges, including communications with parents, development of objectives, team work, and transition planning. PREREQ or COREQ: COUN 504 and COUN 509 or Masters in Counseling.

COUN 523 REFERRAL AND NETWORKING (1-0-1)(SU). The crisis/short-term intervention orientation necessitates an awareness of resources within the school and community that will be addressed along with an overview of the referral process. Development of a professional support network will also be emphasized. PREREQ: COUN 506 or Masters in Counseling.

COUN 524 INTERVENTIONS (2-0-2)(S). Students examine problem solving and action oriented strategies designed to promote change within a time-limited framework with course emphasis on effective and appropriate intervention strategies, emergency procedures, ethical and legal considerations, documentation, referral, and follow-up. PREREQ: COUN 506 or Masters in Counseling.

COUN 525 CONSULTATION (1-2-2)(S)(Odd Years). Knowledge and skills consulting with individuals, groups, and systems. Practices and procedures of consultation where students demonstrate relevant skills in both simulated and internship-based situations. PREREQ: COUN 506 and 509 or Masters in Counseling.

COUN 526 INTERNSHIP IN COUNSELING I (1-6-4)(F). Students apply their skills, training, and knowledge with increasing autonomy as primary supervision shifts toward an onsite counseling supervisor. Students are observed and evaluated as they engage in a wide range of counseling-related activities. Pass/fail credit. PREREQ: Completion of COUN 516 with grade of at least "B".

COUN 527 APPLIED RESEARCH (1-2-2)(F). Methods and evaluation of counseling and educational research with the emphasis on individual exploration of a possible thesis or research project in cooperation with student's advisor or director of the study. PREREQ: COUN 512 or similar graduate statistics course.

COUN 528 INTERNSHIP IN COUNSELING II (1-6-4)(S). In this culminating component of the internship sequence, the student assumes all the functions of a counselor in his or her selected setting while continuing under site based and university supervision, providing the full range of counseling sources from crisis intervention/remediation to the promotion of personal development and environmental enhancement. Pass/fail credit. PREREQ: COUN 526, Recommendations of Supervisory Committee and COUN 526 Supervisor.

COUN 529 MIDDLE SCHOOL COUNSELING (2-0-2)(F). Students explore the evolving roles and responsibilities of middle school/junior high school counselors including curriculum development, parent and teacher consultation, and parent education. The unique needs, stresses, and developmental concerns of this age group are included with emphasis on the organization and implementation of the "Idaho Comprehensive Guidance and Counseling Model" and observing in a middle and/or junior high school setting. PREREQ: CD 506 and CD 530 or Masters in Counseling.

COUN 530 MANAGING DEVELOPMENTAL SCHOOL PROGRAMS (2-0-2)(SU). Students examine program theory in educational settings to create, implement, manage, evaluate, and promote comprehensive counseling and vocational guidance curricula for all students. This course provides the framework for COUN 519, COUN 520, and COUN 529 and emphasizes the "Idaho Comprehensive Guidance and Counseling Model." PREREQ: COUN 505 or Masters in Counseling.

COUN 531 COUNSELING PRACTICUM INTENSIVE (1-4-3)(F/S). A supervised skill review and experientially intensive practicum that may be required of a student needing additional time on skill development before advancing to Internship. PREREQ: Permission of Department Chair and faculty.

COUN 532 COUNSELING INTERNSHIP INTENSIVE (1/4/3)(F/S). A supervised skill review and experientially intensive internship that may be required of a student needing additional time on skill development before enrolling in COUN 528 Counseling Internship II. PREREQ: Permission of Department Chair and faculty.

COUN 543 ADVANCED ASSESSMENT OF ALCOHOL/DRUG PROGRAMS (3-0-3)(F/S). Cross-listed MHLTHSCI 513. Advanced clinical application of concepts and principles of diagnosis and assessment, including legal, social, and health implications. Students will be required to supervise and appraise the critical assessments of other undergraduate or graduate students. This course may only be taken for MHLTHSCI or COUN. PREREQ: COUN 415G or PERM/INST.

COUN 544 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART I (3-0-3)(F). Cross listed MHLTHSCI 564. Emphasis on screening and assessment tool-procedures for substance abuse. Current interventions and screening processes are practiced in class. Legal, social, ethical, and health implications will be investigated. This course may only be taken for either MHLTHSCI or COUN.

COUN 545 FOUNDATIONS OF CHEMICAL DEPENDENCY (3-0-3)(F,S). Cross-listed MHLTHSCI 545. An overview of the pharmacological and physiological effects of chemical dependency. Special attention is given to how substance abuse impacts brain chemistry and how brain chemistry impacts substance abuse. This course may only be taken for MHLTHSCI or COUN. PREREQ: PERM/INST.

COUN 546 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART II (3-0-3)(S). Cross listed MHLTHSCI 565. Clinical application of concepts and principles presented in Part I. Special emphasis is placed on case management techniques. Legal, social, ethical, and health implications will be investigated. This course may only be taken for HLTHST or COUN. PREREQ: MHLTHSCI 564 or COUN 544.

Master of Social Work

School of Social Work
Education Building, Room 716
Telephone 208 426-1568
FAX 208 426-4291
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Graduate Program Coordinator: Martha Wilson
Full Graduate Faculty: Gretchen Cotrell, Daniel Harkness, Juanita Hepler, Daniel Huff, Martha Wilson
Associate Graduate Faculty: Robin Allen, J. E. Gonzalez, Denice Goodrich Liley, Douglas Yunker
Adjunct Graduate Faculty: James Knapp

General Information

The MSW is a two-year full-time graduate program, accredited by the Council on Social Work Education (reaffirmed in 1999). The program is designed to prepare students for advanced social work practice with individuals and families. Students learn clinical, organizational, policy, and administrative skills necessary for promoting social justice and equality, and enhancing the quality of life for all people. The program provides a broad and in-depth knowledge base in order to prepare students for advanced social work practice in a wide array of settings.

Application and Admission Requirements

Applications for both programs (two year and advanced standing) are available beginning September 1. Applications for both programs are processed and reviewed starting January 1 on a continuous basis until program closing dates. Closing date for admission into the two year program is August 1. Closing date for advanced standing is June 15. Enrollment in both programs is limited and the admission process is very competitive. Early application is strongly advised. When enrollment capacities are filled, a waiting list of qualified applicants is started. As seats become available, qualified applicants on the wait list are notified of program availability and offered admission into the program. Accepted applicants must reserve their seat in the class. Typically students are not admitted with a composite GRE score under 900 on the verbal and quantitative sections; however, factors such as education (GRE, GPA, and continuing education courses), social work experience (paid and/or voluntary), personal information, and diversity are considered in the admission decision. Criteria for admission into the MSW program:

1. Completion of the *BSU Graduate Admissions Application* and The School of Social Work Application for admission as a graduate student.
2. Completion of the Graduate Record Examination (GRE) within five years preceding the application. The verbal and quantitative sections of the GRE test will be reviewed.
3. A bachelor's degree from an accredited college or university with a distribution of liberal arts courses (70 quarter credits or 46 semester credits) and a minimum of 10 quarter credits or 6 semester credits in each of the general distribution areas: humanities, social sciences, and natural sciences/mathematics. Applicants must have also completed course work with a minimum of a "C" letter grade in a human biology course with a lab (4 semester credits) and a course which contains content on descriptive and inferential statistics (3 semester credits).
4. An overall undergraduate grade point average (GPA) of 3.0 or higher and a GPA of 3.0 or higher for the junior and senior years of undergraduate study.

   Note: Applicants may not receive academic credit for work experience in the field.

The Master of Social Work Program has one concentration: Advanced direct practice with individuals and families. Students in the two year program must complete a total of 61 credits including 18 credits in Field Practicum. Students in the Advanced Standing program complete 38 credits with 12 hours in the Field Practicum.

Note: Students may receive certification to practice school social work in the State of Idaho by completing SOCWRK 597 School Social Work, SOCWRK 575 and 576 in an approved K-12 educational setting under the supervision of a professional social worker, and all other requirements for the Master of Social Work degree.

Master of Social Work
Two Year Program

Course Number and Title	Credits
YEAR ONE	
Fall Semester	
SOCWRK 502 History and Philosophy of Social Welfare	3
SOCWRK 503 General Methods I: Small Systems (Micro)	3
SOCWRK 504 Social Work Practice Skills	2
SOCWRK 512 Human Development Through the Life Cycle	3
SOCWRK 514 Ethnicity, Gender and Class	1
SOCWRK 530 Research/Statistics I	3
Total Credits	15
Spring Semester	
SOCWRK 505 Social Policy Analysis	3
SOCWRK 515 General Methods II:Larger Systems (Macro)	3
SOCWRK 521 Social Dimensions of Human Behavior	3
SOCWRK 570 Field Practicum	6
Total Credits	15
YEAR TWO	
Fall Semester	
SOCWRK 506 Family and Children, Policy and Legislation	3
SOCWRK 532 Research II: Evaluation	3
SOCWRK 550 Advanced Interventions-Comparative Theories	3
SOCWRK 575 Advanced Practicum	6
Total Credits	15

— continued—

Master of Social Work, Two Year Program (continued)	
Spring Semester SOCWRK 525 Advanced Clinical Practice with Families and Children .....3 SOCWRK 526 Emotional Disorders .....3 SOCWRK 576 Advanced Practicum II.....6 *2 Electives - 2 Credits Each.....4 Total Credits	16
TOTAL TWO YEAR PROGRAM	**61**
*SPECIALIZATION ELECTIVES- Selected Topics.....2 credits each (Elective options will vary from year to year, and may include these or other pertinent issues.) Violence in the Family — School Social Work Substance Abuse — Women's Issues Social Work with People of Color — Aids Issues Social Work with the Elderly — Family Therapy Social Work Supervision — Health Issues Grant Writing/Administration — Group Therapy Rural Social Work Note: Curriculum Guidelines established by the Council on Social Work Education are available in the School of Social Work office.	

Master of Social Work Advanced Standing	
Course Number and Title	**Credits**
Applicants who are graduates of a CSWE accredited baccalaureate program in Social Work may request admission to the advanced program. The advanced standing option is an eleven-month program beginning in July of each year. Students will complete SOCWRK 514, SOCWRK 521, and SOCWRK 530 in summer school and enter the second year of the two-year program the following fall. Criteria for admission for Advanced Standing study in the MSW program are: 1. Graduation from a CSWE Accredited Baccalaureate Social Work Program. 2. Minimum GPA of 3.0 in social work courses from an accredited undergraduate program. Students with an individual social work course with a grade less than C will be required to complete additional equivalent content. 3. This degree must have been completed within five years of the applicant's planned entry into Boise State University's MSW program OR within seven years if the applicant has substantial paid social work experience. 4. All other requirements equivalent to regular admissions. Note: Applicants may not receive academic credit for work experience in the field.	
TOTAL ADVANCED STANDING	**38**

Course Offerings

SOCWRK — SOCIAL WORK

SOCWRK 502 HISTORY AND PHILOSOPHY OF SOCIAL WORK (3-0-3)(F). The major purpose of this course is to place the profession of Social Work within historical context. The course explores the development of social welfare institutions and the social work profession in the United States, emphasizing social welfare issues and social policy and programmatic responses since 1945. This course also examines the impact of human diversity on socioeconomic and political statuses and access to social welfare resources and social work services.

SOCWRK 503 GENERAL METHODS I: SMALL SYSTEMS (MICRO) (3-0-3)(F). Using a strengths perspective, this course focuses on the development of professional skills associated with the provision of human services to individuals, families, and small groups. Topics include the process and content of social work interactions and professional relationships and the theoretical underpinnings of empowerment and strengths-based practice. Students gain knowledge about social work values and ethical issues encountered in practice settings. Approaches and practice skills with individuals from differing social, gender, cultural, racial, religious, spiritual, and class backgrounds are examined. COREQ: SOCWRK 504.

SOCWRK 504 SOCIAL WORK PRACTICE SKILLS (2-0-2)(F). Using a strengths perspective, this course focuses on the development and practice of interpersonal and communication skills associated with the provision of human services to individuals, families, and small groups. The major emphasis in this experiential course is on the acquisition of skills utilized in the helping interview. Communication and practice skills with individuals from differing social, gender, cultural, racial, religious, spiritual, and class backgrounds are discussed. COREQ: SOCWRK 503.

SOCWRK 505 SOCIAL POLICY ANALYSIS (3-0-3)(S). SOCWRK 505 critically examines contemporary welfare policies, in a value-analytic framework, and in the context of the United States political economy. Emphasis is placed on values of equity, adequacy and universality of access to basic social and economic security. Policy practice skills include identification and evaluation of policy problems, including their empirical and value-dimensions, and skills in policy advocacy with legislators and with the general public. Major importance is placed on policies and programs that impact populations-at-risk, such as women and families, people of color including leading ethnic minority groups in Idaho and the region, and such easily disadvantaged groups as children, persons of varying physical and mental ability, and the aged. Professional practice values are emphasized.

SOCWRK 506 FAMILY AND CHILDREN, POLICY AND LEGISLATION (3-0-3)(F). This advanced policy course is designed to prepare students with the knowledge and skills to analyze, design, and advocate for social welfare policy and programs, with a specific focus on policies and programs which affect families and children. The course examines various theoretical approaches to articulating family policy, as well as current policy issues and legislation. Emphasis is placed on the examination of research on family needs, and the critique of cultural values and ideological orientations which undergird policy preferences. An introduction to family policy approaches in other nations sharpen this critique. PREREQ: SOCWRK 505.

SOCWRK 512 HUMAN DEVELOPMENT THROUGH THE LIFE CYCLE (3-0-3)(F). Theories of human development, life stage, and subordinate group oppression will be the focus of this course. In particular, psychodynamic and cognitive humanist theories will be examined, as well as current theories of the psychologies of women and people of color. The interrelationships of sociohistorical, sociocultural, socioeconomic, interpersonal, and psychological

influences on human development will be explored, with an emphasis on factors of gender, affectional orientation, ethnicity, race, and class.

SOCWRK 514 ETHNICITY, GENDER AND CLASS (1-0-1)(F,SU). This experiential course in a small group format is designed to provide a positive environment for students' exploration of their attitudes toward human diversity. The major objective is that students will increase their knowledge and awareness of the experiences of people of oppressed groups, in relation to historical prejudice and discrimination. Students will gain insight in sociohistorical and familial roots of their own biases and increase their ability to sensitively work with individuals and groups who are subjected to oppression, based on race ethnicity, gender, affectional orientation, class, and other stigmatizing characteristics.

SOCWRK 515 GENERAL METHODS II: LARGER SYSTEMS (MACRO) (3-0-3)(S). This course considers the many ways and means by which people organize to meet their needs and solve community issues. It develops knowledge and skills for social work practice in organizations and communities and focuses on social change toward the goal of social justice in the structure and functioning of social institutions. Skills include working with task-oriented groups, community networking and coalition-building for political advocacy and for social service program planning, needs assessment, and methods to foster community participation in community development and social action. PREREQ: SOCWRK 503 and SOCWRK 504.

SOCWRK 521 SOCIAL DIMENSIONS OF HUMAN BEHAVIOR (3-0-3)(S,SU). This course explores the impact of social systems on human behavior, in terms of sociopolitical and sociocultural forces, from an ecological systems perspective. Knowledge on the ways in which systems promote or deter the maintaining or achieving of well-being and optimal health is provided. Particular emphasis is given to the effects of prejudice and discrimination on individuals and groups, based on their particular race, ethnicity, gender, affectional orientations, class, or other stigmatizing characteristics. There is a special emphasis on working with the Hispanic/Latino population. PREREQ: SOCWRK 512.

SOCWRK 525 ADVANCED CLINICAL PRACTICE WITH FAMILIES AND CHILDREN (3-0-3)(S). The primary focus of this course is the understanding of children from a developmental perspective within the context of the family and the expanding social environment. In addition to developmental and systems theory, psychodynamic, behavioral, cognitive, structural, and current models of family therapy are examined. Understanding of assessment includes consideration of health as well as unhealthy responses and a strengths-based perspective is encouraged. Students are expected to address ethical issues in working with families and children.

SOCWRK 526 EMOTIONAL DISORDERS (3-0-3)(S). This course presents emotional dysfunction within the context of the life cycle and includes developmental crises and mental disorders. Biological, psychogenic, and psychophysiologic bases of emotional disorders are explored, as well as other issues that may impact mental health. Students are prepared to understand, recognize, and diagnose using the current DSM in psychosocial assessments with a critical awareness of issues of possible cultural bias. Emphasis is given to focusing on client empowerment and strengths rather than pathologies.

SOCWRK 530 RESEARCH/STATISTICS I (3-0-3)(F,SU). This course provides an overview of research design including sampling and variable measurement. The major emphasis is on basic statistical methods. Descriptive methods, probability distributions, and inferential statistics including hypothesis testing are covered. Students learn statistical techniques associated with group comparisons using nominal, ordinal, and interval data. In addition, the course covers measures of association or methods to describe the relationship between variables including Chi-Square, Kendall's tau, gamma, regression, and correlation, and ANOVA. PREREQ: Undergraduate Research and Statistics.

SOCWRK 532 RESEARCH II: EVALUATION (3-0-3)(F). Research II builds on the knowledge, skills, and values learned in Research I. Students learn the methods and techniques used in social work evaluation research with individuals, families and small groups. A major purpose of the course is to prepare students to participate in research and utilize outcome evaluation of practice in their agency settings. The critical role of outcome evaluation for the profession in emphasized. Students learn the scientific principles of research including conceptualization, operationalization of concepts, measurement, sampling, and analysis of data as they relate to evaluation of outcome. Methods of observation including single subject and group designs are covered. Students are required to complete an evaluation of outcome project including analysis of data utilizing statistical packages such as SPSS or SASS. PREREQ: SOCWRK 530.

SOCWRK 550 ADVANCED INTERVENTIONS - COMPARATIVE THEORIES (3-0-3)(F). This course introduces students to the theoretical frameworks used in social work practice to bring about change with individuals, families, and groups. Utilizing a strengths perspective, particular emphasis is placed on individualizing treatment strategies in order to address the needs of diverse, minority, oppressed, and at-risk populations. PREREQ: SOCWRK 503 and SOCWRK 504.

SOCWRK 570 FIELD WORK (0-20-6)(S). This internship provides students with a supervised social work practice experience in a community social service agency. It includes experiential learning in foundation social work practice skills as well as opportunities to work with diverse populations. The internship requires 20 clock hours per week in the agency setting. Students are expected to abide by The Code of Ethics of the National Association of Social Workers in their practice with clients and agencies. Grade Policy: Students receive a Pass/Fail in the internship. PREREQ: SOCWRK 503.

SOCWRK 575 ADVANCED SOCIAL WORK PRACTICUM I (0-20-6)(F). This internship provides students with a supervised social work practice experience in a community social service agency. It includes experiential learning in advanced social work practice skills in a specialized setting. Experience with client groups will reflect racial, ethnic, cultural and gender diversity. The internship requires 20 clock hours per week in the agency setting. Students are expected to abide by The Code of Ethics of the National Association of Social Workers in their practice with clients and agencies. Grade Policy: Students receive a Pass/Fail in the internship. PREREQ: SOCWRK 503.

SOCWRK 576 ADVANCED SOCIAL WORK PRACTICUM II (0-20-6)(S). This internship provides students with a continued supervised social work practice experience in a community social service agency. It includes experiential learning in advanced social work practice skills in a specialized setting. Experience with client groups will reflect racial, ethnic, cultural and gender diversity. The internship requires 20 clock hours per week in the agency setting. Students are expected to abide by The Code of Ethics of the National Association of Social Workers in their practice with clients and agencies. Grade Policy: Students receive a Pass/Fail in the internship. PREREQ: SOCWRK 503.

SOCWRK 580 SELECTED TOPICS

SOCWRK 580 SOCIAL WORK WITH PEOPLE OF COLOR.
SOCWRK 581 VIOLENCE IN THE FAMILY.
SOCWRK 582 SOCIAL WORK WITH THE ELDERLY.
SOCWRK 583 ALCOHOLISM AND SUBSTANCE ABUSE.
SOCWRK 584 SOCIAL WORK PRACTICE WITH HISPANIC POPULATIONS.
SOCWRK 585 ADVANCED SOCIAL WORK PRACTICE IN ORGANIZATION AND COMMUNITIES.
SOCWRK 586 GROUP THERAPY.
SOCWRK 587 SOCIAL WORK SUPERVISION.

Master of Arts in Technical Communication

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Director of Technical Communication: Mike Markel
Department Chair: R. Ken Sanderson
Full Graduate Faculty: Bruce Ballenger, John Battalio, Jon Dayley, Richard Leahy, Mike Markel, Michelle Payne, Bruce Robbins, Mary Ellen Ryder, Karen Uehling
Adjunct Graduate Faculty: James Frost, Kevin Wilson

General Information

Technical communication is a humanistic discipline in which people create, shape, and communicate technical information so that other people can use it safely, effectively, and efficiently. Although most of the courses in the program involve high-technology tools, the core of technical communication is clear written and oral communication. Fundamental in our approach to technical communication is ethics: the writer's understanding that the people who read and use the information must be treated with dignity, as ends rather than merely means. Also fundamental is the writer's awareness that technical communication can affect various constituencies—from co-workers to customers to the general public—and even the environment itself.

Against this backdrop of clear, ethical communication, our students learn the theory of technical communication, drawing on such disciplines as reading and writing theory, linguistics, cognitive psychology, sociology, and gender studies. Then students progress through courses in writing, editing, and ethics. A course in visual rhetoric and information design prepares students for subsequent courses in print and on-screen production. Finally, students take a course in oral communication skills, because technical communicators speak and listen far more than they write. Students also complete a 3-credit internship. In addition, there are a number of elective courses.

Students follow one of two tracks, the first of which culminates in a project or thesis, the second of which culminates in a portfolio.

Application and Admission Requirements

You are encouraged to apply if you possess a bachelor's degree with a 3.0 GPA. The full application package will also include official undergraduate transcripts, three letters of reference from employers or professors, and a 1,000-word statement describing your professional goals and the ways in which the program can help you achieve them. Visit our Web site or see the Director of Technical Communication for more information on how to apply.

Degree Requirements

The course of study for the Master of Arts in Technical Communication consists of a minimum of 33 hours to be chosen by you and your advisory committee from one of the two tracks described below. Each track consists of required courses and electives. To fulfill the elective requirements, you may take additional graduate courses in technical communication or other disciplines. You are encouraged to acquire expertise in an additional technical field, such as a business or engineering discipline or computer science; you may already have acquired that expertise through undergraduate course work or job experience. (Note: You may not count ENGL 405G toward your degree requirements.)

Master of Arts in Technical Communication Alternative Program 1

An introductory seminar (Introductory Seminar in Technical Communication), eighteen hours of mandatory courses in technical communication, three hours of project or thesis, and three hours of internship. (If you already have professional work experience in technical communication, your advisor may permit you to substitute three additional elective credits for the internship.)

Course Number and Title	Credits
ENGL 511 Introductory Seminar in Technical Communication	3
ENGL 512 Technical Rhetoric and Applications	3
ENGL 513 Technical Editing	3
ENGL 514 Technical Communication Ethics	3
ENGL 515 Visual Rhetoric and Information Design	3
ENGL 516 Topics in Print Document Production or ENGL 521Topics in On-screen Document Production	3
ENGL 517 Oral Communication for Technical Communicators	3
ENGL 590 Internship	3
ENGL 591 Project or ENGL 593 Thesis	3
General Graduate Electives	6
TOTAL	**33**

Master of Arts in Technical Communication Alternative Program 2

An introductory seminar (Introductory Seminar in Technical Communication), eighteen hours of mandatory courses in technical communication, a portfolio, and three hours of internship. (If you already have professional work experience in technical communication, your advisor may permit you to substitute three additional elective credits for the internship.)

Course Number and Title	Credits
ENGL 511 Introductory Seminar in Technical Communication	3

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Master of Arts in Technical Communication, Alternative Program 2 (continued)	
ENGL 512 Technical Rhetoric and Applications	3
ENGL 513 Technical Editing	3
ENGL 514 Technical Communication Ethics	3
ENGL 515 Visual Rhetoric and Information Design	3
ENGL 516 Topics in Print Document Production or ENGL 521 Topics in On-screen Document Production	3
ENGL 517 Oral Communication for Technical Communicators	3
ENGL 590 Internship	3
General Graduate Electives	9
TOTAL	**33**

See the course descriptions for prerequisites. Selected prerequisites may be waived or taken concurrently with the consent of your committee.

You may petition your committee to be exempted from up to six hours of required course work. This petition will be evaluated on the basis of your demonstrated experience and professional competence. If you receive an exemption, you will substitute an equivalent number of elective credits.

Course Offerings

ENGL — ENGLISH

REQUIRED COURSES

ENGL 511 INTRODUCTORY SEMINAR IN TECHNICAL COMMUNICATION (3-0-3)(F/S). An introduction to the current definitions and theories of technical communication, including approaches from such related fields as rhetoric, linguistics, cognitive psychology, sociology, and philosophy. Students will also study the different job specializations within technical communication.

ENGL 512 TECHNICAL RHETORIC AND APPLICATIONS (3-0-3)(F/S). An advanced study of technical communication for those students who are or expect to become technical communicators. Topics of study include modern theories of rhetoric, focusing on semantics, syntax, readability, pragmatics, and hypertext. Students will write reports, proposals, manuals, and online documents related to their own backgrounds and fields of interest. PREREQ: ENGL 302 or ENGL 402 or ENGL 511 or PERM/INST.

ENGL 513 TECHNICAL EDITING (3-0-3)(F/S). An advanced course in the editing of technical documents. Major projects are related to each student's field of interest. Topics of study include the theory and ethics of editing, content editing, copy editing, developmental editing, production editing, and online editing. PREREQ: ENGL 512 or PERM/INST.

ENGL 514 TECHNICAL COMMUNICATION ETHICS (3-0-3)(F/S). An examination of the various ethical issues inherent in the practice of technical communication. Topics include the ancient debate about the claims of philosophy and rhetoric; Kant's categorical imperative; the modern standards of rights, justice, utility, and care; the employee's obligations to the employer, the public, and the environment; and the common ethical issues faced by technical communicators, including plagiarism and copyright violation, the fair use of words and graphics, trade secrets, whistleblowing, and codes of conduct. The course will use the case study method.

ENGL 515 VISUAL RHETORIC AND INFORMATION DESIGN (3-0-3)(F/S). A study and application of the rhetorical elements of design, including color, line, form, images, and type. Students will be introduced to desktop publishing, graphics, and Web-authoring software. Students will apply principles of visual rhetoric in creating print and online technical documents. PREREQ: ENGL 513 or PERM/INST.

ENGL 517 ORAL COMMUNICATION FOR TECHNICAL COMMUNICATORS (3-0-3)(F/S). The theory and practice of several major kinds of oral communication modes used by technical communicators, including interviewing of technical experts and clients, group discussion, and technical presentations that incorporate presentation software. PREREQ: ENGL 515 or PERM/INST.

ENGL 590 INTERNSHIP (0-10-3)(F/S). An actual work experience during at least one semester in which the student creates a substantial body of work in technical communication for a specific audience. This body of work should demonstrate at a professional level the application of the principles learned in previous course work.

ELECTIVE COURSES

ENGL 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 non-textual 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 415G ON-SCREEN DOCUMENT PRODUCTION (3-0-3)(F/S). An advanced study and application of the principles involved in designing, creating, and managing information on the screen. Topics include the relationship between screen layout and readability; techniques for integrating text, graphics, and multimedia; principles of writing and indexing on-screen instructional materials; and the use of online help and Web-authoring software. Students will practice effective hypertext and screen-design techniques in producing basic electronic documents, such as online help and Web sites. PREREQ: ENGL 402 or PERM/INST.

ENGL 501 THE TEACHING OF WRITING (3-0-3)(F/S). Theories and methods of teaching writing for experienced teachers. Special emphasis on new discoveries about the learning process in writing courses and in the teacher's role in helping individual students. PREREQ: ENGL 301, ENGL 500, and teaching experience or PERM/CHAIR.

ENGL 505 LINGUISTICS (3-0-3)(F/S). Modern linguistic theories and their application to literature and teaching English. An examination of how various grammatical models represent the complexities of language sound, sequence, and structure. Application of theory to language at work. Alternate years. PREREQ: ENGL 500 and LING 305 or equivalent or PERM/CHAIR.

ENGL 516 TOPICS IN PRINT DOCUMENT PRODUCTION (3-0-3)(F/S). Study and application of the principles and techniques involved in taking print documents from conception to production. Topics will vary but can include desktop publishing, estimating time and cost, selecting paper and binding, working with pre-press and printing companies, and selecting appropriate distribution systems. The course assumes experience with personal computers and desktop publishing software. This course may be taken twice for credit. PREREQ: ENGL 515 or PERM/INST.

ENGL 518 WRITING FOR THE COMPUTER INDUSTRY (3-0-3)(F/S). The study and application of principles for creating effective print and online documentation within the computer industry. Topics can include content design and organization, writing style, graphic

design, hypertext, and usability testing. The course also addresses strategies for working successfully as a technical communicator in the computer industry. PREREQ: ENGL 515 or PERM/INST.

ENGL 519 TECHNICAL PUBLICATIONS MANAGEMENT (3-0-3) (F/S). Analysis and application of the principles of management and organizational behavior as they apply to the technical publications field. In a case-study environment focused on the publications process, students learn the techniques and practices of managing technical publications groups within organizational settings, while studying relevant principles of motivational theory and human behavior. PREREQ: ENGL 512 or PERM/INST.

ENGL 521 TOPICS IN ON-SCREEN DOCUMENT PRODUCTION (3-0-3)(F/S). Study and application of the principles involved in designing, creating, and managing information on the screen. Topics vary but can include advanced Web design, help systems, and multimedia applications. Students practice effective hypertext and screen-design techniques from cognitive science, software psychology, and human factors. This course may be taken twice for credit. PREREQ: ENGL 515 or PERM/INST.

ENGL 561 THEORIES OF RHETORIC AND COMPOSITION (3-0-3)(F/S). A study of the theoretical context of current writing and writing pedagogy. Influential theories of invention, arrangement, and style, from ancient and modern times, are examined and compared. Special attention is paid to the relationships of current rhetorical and cognitive theories to writing processes and written products. PREREQ: Admission to Graduate Program or PERM/CHAIR.

ENGL 585 SELECTED TOPICS IN LINGUISTICS (3-0-3)(F/S). An investigation of a particular topic in linguistics, drawn generally from psycholinguistics, sociolinguistics, semantics, pragmatics, discourse, syntax, or morphology. Course work will include lecture, discussion, and a paper or project, depending on the nature of the topic. Repeatable once for credit. PREREQ: LING 305.

Advanced Certificate in Technical Communication

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Adjunct Graduate Faculty: James Frost, Kevin Wilson

General Information

The Advanced Certificate in Technical Communication is intended for advanced undergraduate and graduate students. A student in geophysics might wish to earn the Advanced Certificate because he knows that he will be making presentations at professional conferences and writing journal articles. An accountant in the Boise area might wish to improve her technical communication skills to enhance her performance on the job.

The Advanced Certificate enables students to choose a unified, coherent group of courses in technical communication and related fields from other disciplines that will improve their understanding of the public role of written communication and their on-the-job skills.

Students who wish to substitute an alternative course for one of the two listed electives may petition the Director of Technical Communication.

Application and Admission Requirements

There are no application and admission requirements. You must fulfill the prerequisites of each course you choose. After completing the five courses with a grade of at least C in each, see the Director of Technical Communication.

Certificate Requirements

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: ART 333 Computer Graphics for Artists....4 COMM 307 Interviewing....3 COMM 361 Organizational Communication....3 COMM 478 Public Relations....3 COMM 481 Studies in Interpersonal Communication ..3 CIS 310 Introduction to Management Systems ....3 ENGL 511 Introductory Seminar in Technical Communication ....3 ENGL 515 Visual Rhetoric and Information Design..3 ENGL 516 Topics in Print Document Production..3 ENGL 517 Oral Communication for Technical Communicators....3 ENGL 518 Writing for the Computer Industry ....3 ENGL 519 Technical Publications Management ..3 ENGL 521 Topics in On-screen Document Production....3 IPT 537 Instructional Design....3 LING 305 Introduction to Language Studies ....3 MGMT 401 Organizational Behavior ....3 MGMT 405 Management of Continuous Learning...3 MKTG 306 Promotion Management....3 SOC 390 Conflict Management....3 SOC 487 Organizational Theory and Bureaucratic Structure ....3 EDUC 574 Instructional Courseware Design 3	6-7
TOTAL	**15-16**

Course Offerings

ART 333 COMPUTER GRAPHICS FOR ARTISTS (2-4-4)(F/S). This course will familiarize the student with current programs for publication design, electronic prepress methods, illustration, fine art,

photo manipulation and interactive programming. Available software includes the latest in illustration, graphic design, three dimensional applications, animation, paint and interactive programs. PREREQ: PERM/INST.

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 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 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.

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. PREREQ: PERM/INST.

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, data-base systems; systems analysis, design, implementation; computer-human interface; data communications and networks; international, social, political, legal, behavioral and ethical issues of MIS. PREREQ: Upper Division Business standing. Not required for CIS majors.

EDUC 574 INSTRUCTIONAL COURSEWARE DESIGN (3-0-3)(S). Students will design instruction with the assistance of a microcomputer and link the instruction with video technology. Students will investigate several authoring languages to facilitate the development and delivery of instruction. PREREQ: IPT 537.

IPT 537 INSTRUCTIONAL DESIGN (3-0-3)(F). This course gives an overview of several models for instructional systems design and examines the processes involved in designing instructional interventions, such as analyzing instructional needs, determining and organizing content and process, selecting appropriate media, evaluating, and revising. PREREQ: IPT 535 and IPT 536 or PERM/INST.

LING 305 INTRODUCTION TO LANGUAGE STUDIES (3-0-3). 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.

MGMT 401 ORGANIZATIONAL BEHAVIOR (3-0-3)(F/S). 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: Upper-division business standing and 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: Upper-division business standing and MGMT 301.

MKTG 306 PROMOTION MANAGEMENT (3-0-3)(F/S). A comprehensive approach to creating and implementing advertising and promotional activities. New issues of consumer research are emphasized and integrated with the promotional mix. The economic and social criticisms of advertising are stressed to insure that managers are aware of the ethical responsibilities inherent in the job. PREREQ: Upper-division business standing and MKTG 301.

SOC 390 CONFLICT MANAGEMENT (3-0-3)(F). Examination of the cause 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 101 or COMM 111.

SOC 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. May be taken for sociology or political science credit (PO 487) but not for both. PREREQ: Senior standing, PERM/INST.

Additional Graduate Courses

NOTICE: The 500-level courses listed below are not offered on a regular basis. Students interested in these courses should consult with an advisor in the Department before completing their application.

Additional work will be required to receive graduate credit for undergraduate G courses.

CHEM — CHEMISTRY

CHEM 401G-402G 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, acids and bases, descriptive transition and non-transition metal chemistry. PREREQ: CHEM 322 or PERM/INST.

CHEM 411G INSTRUMENTAL ANALYSIS (2-6-4)(S). Theory and implementation of modern chemical instrumentation. Topics include chromatography, atomic and molecular spectroscopy, and mass spectrometry, error analysis, and signal processing. PREREQ: CHEM 212 and CHEM 322.

CHEM 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 432G BIOCHEMISTRY LABORATORY (0-3-1)(S). Identification, isolation and reactions of biologically important compounds. PREREQ/COREQ: CHEM 431.

CHEM 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 440G SPECTROMETRIC IDENTIFICATION LECTURE (2-0-2)(S). Identification of compounds using modern spectrometric techniques. PREREQ: CHEM 318 and CHEM 321.

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

CHEM 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 501 HISTORY OF CHEMISTRY (3-0-3). The study of the development of chemistry from its early stages through alchemy. Emphasis will be placed on the development of chemical concepts, the important contributors to these concepts and the interrelationships between chemistry and the general course of history. PREREQ: Two years of college chemistry and one year of history or PERM/INST. Offered on demand.

CHEM 503 SPECTROSCOPY (3-0-3). Concepts and practical usage of ultra-violet, infrared, nuclear magnetic, mass spectroscopy. Emphasis will be placed on use of instruments and interpretation of spectra. Prior knowledge of spectroscopy not required. PREREQ: Eight hours of general chemistry and six hours of organic chemistry. Offered on demand.

CHEM 509 CHEMISTRY OF LIFE PROCESSES (3-0-3). The course introduces the student to basic concepts of biochemistry associated with a coverage of current topics ranging from allied health field areas to environmental chemistry. Classroom demonstration material will be correlated with lecture material. PREREQ: One year of general chemistry and organic chemistry. Offered on demand.

CHEM 511 ADVANCED ANALYTICAL CHEMISTRY (3-0-3). Stoichiometry involved in separations and instrumental methods of analysis. The course will be flexible in nature to adapt to the varied background of the expected students. PREREQ: CHEM 322 and CHEM 212. Offered on demand.

CHEM 515 NUCLEAR AND RADIOCHEMISTRY (3-0-3). Atomic and nuclear structure, radioactivity, nuclear reactions, radioactive decay laws, interaction of radiation with matter, detection chemistry. Offered on demand.

CHEM 522 ADVANCED TOPICS IN CHEMISTRY (3-0-3). Selected advanced topics from Chemistry such as mass spectrometry, nuclear magnetic resonance spectroscopy, radiochemistry, environmental chemistry and polymer chemistry. PREREQ: CHEM 322 or PERM/INST. Offered on demand.

PHYS — PHYSICS

PHYS 522 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: The level and extent of the work required will reflect the advanced standing of this course. PREREQ: PERM/INST.

PHYS 598 PHYSICS SEMINAR (1-0-1)(S). Individual reports on selected topics. The level of the reports must reflect the additional work expected beyond that required for the undergraduate seminar. PREREQ: PERM/INST. Offered on demand.

PHYSCI — PHYSICAL SCIENCE

PHYSCI 501 BASIC PHYSICAL SCIENCE FOR SCIENCE TEACHERS (3-0-3). Selected concepts of matter and energy that are widely applicable toward understanding our physical environment. A one-semester course for non-Science majors. Offered on demand.

PSYC — PSYCHOLOGY

PSYC 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 405G ADVANCED STATISTICAL METHODS (3-0-3)(S). Statistical concepts and methods commonly used in the treatment of data in the social sciences will be covered. These include advanced topics in univariate statistics (for example, repeated measures designs) as well as current multi-variate techniques such as discriminant analysis, factor analysis, and principal component analysis. PREREQ: PSYC 295 or equivalent or PERM/INST.

PSYC 421G PSYCHOLOGICAL MEASUREMENT (3-0-3)(F). An introduction to the theory and nature of psychological measurement together with a survey of types of psychological tests currently used. PREREQ: PSYC 101 and PSYC 295.

SOC — SOCIOLOGY COURSES

SOC 410G 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 412G QUALITATIVE SOCIAL RESEARCH METHODS (3-0-3)(F). An intensive course in interpretive social science, covering the practice of fieldwork ethnography, the use of computers in qualitative research, techniques of qualitative data analysis, and the writing of qualitative research reports. PREREQ: SOC 101 and Graduate standing.

SOC 435G 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 the controlling the use of drugs.

SOC 501 THE SOCIOLOGY OF EDUCATION (3-0-3)(F/S). A sociological analysis of the American school system, its problems and the social forces that shape the schools in contemporary society.

SOC 510 CONFLICT AND CHANGE IN SOCIO-CULTURAL SYSTEMS (3-0-3)(F/S). Intensive examination of social and cultural change as related to technological evolution, value changes and the resultant conflict in society.

SOC 511 THE SOCIOLOGY OF AGE GROUP STRATIFICATION (3-0-3)(F/S). Examination of the sociological effect of age as a major dimension of social organization and stratification in American society and Western civilization. The course will consider the effects of changing patterns of longevity, resultant changes in age distribution of the population as these factors affect social, economic, and political systems.

SOC 512 SOCIAL DEMOGRAPHY (3-0-3)(F/S). Techniques and methods for analyzing population growth, trends, and movement as reflected in actuarial data, birth-death rate; mobility, fertility and fecundity as these affect the societal patterns, especially planning for human service programs.

SOC 571 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: Graduate standing.

SOC 595 READING AND CONFERENCE (1-2 credits). Directed reading on selected materials in human services administration and discussion of these materials as arranged and approved through major advisor.

Boise State University Graduate Faculty

Full-Time Graduate Faculty as of April 2001

NOTE: The date in parentheses is the year of first appointment.

A

Affleck, Stephen B. ....(1981)
Chair and Professor, Civil Engineering; Ph.D., Iowa State University

Ahmed-Zaid Said ....(1996)
Associate Professor, Electrical Engineering; Ph.D., University of Illinois at Urbana-Champaign

Allen, Robin ....(1997)
Assistant Professor, Social Work; Ph.D., University of Illinois-Urbana-Champaign

Alm, Leslie ....(1991)
Chair and Associate Professor, Political Science; Public Policy and Administration; Ph.D., Colorado State University

Andersen, Rudy A. ....(1992)
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, Robert ....(1970)
Professor, Mathematics and Computer Science; 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

Armstrong, James....(1992)
Professor, Foundations, Technology and Secondary Education; Ph.D., University of Illinois

Atlakson, Philip....(1985)
Associate Professor, Theatre Arts; M.A., State University of New York, Binghamton

Ayers, Kathleen L....(1983)
Associate Professor, Mathematics and Computer Science; Ph.D., University of Idaho

B

Bacon, Stephanie....(1998)
Assistant Professor, Art; M.F.A., Brooklyn College

Bahnson, Paul R. ....(1999)
Associate Professor, Accountancy; Ph.D., University of Utah

Bahruth, Robert....(1988)
Professor, Elementary Education and Specialized Studies; Ph.D., University of Texas, Austin

Baker, R. Jacob ....(2000)
Associate Professor, Electrical Engineering; Ph.D., University of Nevada

Baker, Richard P....(1973)
Professor, Sociology; Ph.D., Washington State University

Baldassarre, Joseph A....(1975)
Professor, Music; D.M.A., Case Western Reserve University

Baldwin, John B....(1971)
Professor, Music; Ph.D., Michigan State University

Ballenger, Bruce....(1995)
Associate Professor, English; Ph.D., University of New Hampshire

Baltzell, Michael....(1995)
Associate Professor, Theatre Arts; M.F.A., Idaho State University

Bammel, Brad P ....(1988)
Associate Professor, Chemistry; Ph.D., University of New Orleans

Banks, Richard C ....(1968)
Professor, Chemistry; Ph.D., Oregon State University

Barney, Lloyd Dwayne ....(1986)
Professor, Marketing and Finance; Ph.D., Texas A & M

Barrash, Warren....(1995)
Research Professor, Geosciences Department; Ph.D., University of Idaho

Barr, Robert....(1991)
Professor, Foundations, Technology, and Secondary Education; Ph.D., Purdue University

Bartoszynski, Tomek ....(1996)
Professor, Mathematics and Computer Science; Ph.D., Warsaw University, Poland

Battalio, John T ....(1995)
Associate Professor, English; Ph.D., Texas A & M University

Baughn, C. Christopher ....(1998)
Associate Professor, Management; Ph.D., Wayne State University

Bauwens, Jeanne....(1977)
Professor, Elementary Education and Specialized Studies; Ed.D., University of Idaho

Bechard, Marc Joseph....(1983)
Associate Chair and Professor, Biology; Ph.D., Washington State University

Belfy, Jeanne Marie ....(1983)
Graduate Program Coordinator and Professor, Music; Ph.D., University of Kentucky

Bell, Kenneth....(1997)
Assistant Professor, Health, Physical Education and Recreation; Ph.D., Virginia Polytechnic Institute and State College

Belthoff James....(1993)
Associate Professor, Biology; Ph.D., Clemson University

Berg, Lynn R....(1984)
Professor, Music; D.M.A., University of Wisconsin, Madison

Bigelow, John D....(1982)
Professor, Management; Ph.D., Case Western Reserve University

Birdsall, Bobbie A ....(1995)
Associate Professor, Counselor Education, Ph.D., Oregon State University

Bixby Michael B ....(1981)
Professor, Management; J.D., University of Michigan

Blain, Michael ....(1982)
Professor, Sociology; Ph.D., University of Colorado

Blankenship, Jim ....(1977)
Professor, Art; M.F.A., Otis Art Institute

Boucher, Teresa....(1997)
Chair and Assistant Professor, Modern Languages, Ph.D., Princeton University

Bratt, J. Wallis....(1970)
Associate Professor, Music; M.M., University of Utah

Brill, Stephen H....(1998)
Assistant Professor, Mathematics and Computer Science; Ph.D., University of Vermont

Brown, Marcellus....(1989)
Associate Professor, Music; M.M., University of Michigan

Browning, William B....(1996)
Assistant Professor, Modern Languages, D.M.L., Middlebury College

Budde, James....(1997)
Associate Professor, Art; M.F.A., California State University

Buffenbarger, James ....(1991)
Associate Professor, Mathematics and Computer Science; Ph.D.,University of California-Davis

Buhler, Peter ....(1977)
Chair and Professor, History; Ph.D., University of California, San Diego

Bullock, Douglas ....(1996)
Assistant Professor, Mathematics and Computer Science; Ph.D., University of Iowa

Bunnell, David....(1996)
Assistant Professor, Mechanical Engineering; Ph.D., University of Texas at Austin

Burkett, Susan ....(1997)
Associate Professor, Electrical and Computer Engineering; Ph.D., University of Missouri, Columbia

C

Casner, Nicholas A ....(1992)
Associate Professor, History; Ph.D., Carnegie-Mellon University

Centanni, Russell....(1973)
Professor, Biology; Ph.D., University of Montana

Charlier, Henry A....(2000)
Assistant Professor, Chemistry; Ph.D., Medical College of Wisconsin

Christensen, Steve ....(1987)
Chair and Associate Professor, Foundations, Technology and Secondary Education; Ph.D., University of Idaho

Colby, Conrad....(1970)
Chair and Professor, Respiratory Therapy; Ph.D., University of Montana

Coll, Kenneth M. ....(1998)
Associate Professor, Counseling; Ph.D., Oregon State University
Constant, Isabelle ....(1998)
Associate Professor, Modern Languages; Ph.D., University of Arizona
Cook, Devan....(1997)
Assistant Professor, English; Ph.D., Florida State University
Cook, James....(1992)
Chair and Professor, Music; D.M.A., University of Southern California
Corless-Smith, Martin ....(2000)
Assistant Professor, English; Ph.D., University of Utah
Cotrell, Gretchen....(1991)
Associate Professor, Social Work; Ph.D., University of California, Berkeley
Cox, David....(1992)
Associate Professor, Instructional & Performance Technology; Ph.D., University of Minnesota
Cox, Marvin....(1977)
Chair, Graduate Program Coordinator, and Professor, Communication; Ph.D., University of Kansas
Cox, T Virginia....(1967)
Chair and Associate Professor, Anthropology; Ph.D., University of Georgia
Craner, G. Dawn ....(1973)
Associate Professor, Communication; M.A., Purdue University
Crank, John....(1994)
Professor, Criminal Justice Administration; Ph.D., University of Colorado, Boulder

D

Davis, Charles ....(1963)
Professor, English; Ph.D., University of North Carolina, Chapel Hill
Dawson, Paul ....(2000)
Professor, Mechanical Engineering; Ph.D., Washington State University
Dayley, Jon Philip ....(1982)
Professor, English; Ph.D., University of California, Berkeley
Dodson, Jerry....(1970)
Professor, Psychology; Ph.D., Purdue University
Donaldson, Paul R....(1975)
Professor, Geosciences; Ph.D., Colorado School of Mines
Dorman, Patricia....(1967)
Chair and Professor, Sociology; Ph.D., University of Utah
Douglass, J D Jr....(1972)
Professor, Art; M.F.A., Cranbrook Academy of Art
Downs, Richard R....(1975)
Associate Professor, Psychology; Ed.D., Ball State University
Dubert, LeeAnn....(1992)
Associate Professor, Foundations, Technology and Secondary Education; Ph.D., University of Wisconsin, Madison
Dufty, Alfred M....(1988)
Graduate Program Coordinator and Professor, Biology; Ph.D., State University of New York, Binghamton
Duttagupta, Siddhartha....(1996)
Assistant Professor Electrical and Computer Engineering; Ph.D., Rochester Institute of Technology
Dykstra, Dewey I, Jr ....(1981)
Professor, Physics; Ph.D., University of Texas Austin

E

Eastman, Phillip ....(1977)
Dean, College of Arts and Sciences; Professor, Mathematics; Ph.D., University of Texas
Eggert, Rudolph ....(1996)
Associate Professor, Mechanical Engineering; Ph.D., State University of New York, Buffalo
Eisley, Mark ....(1990)
Chair, Graduate Program Coordinator, and Associate Professor, Instructional & Performance Technology; Ph.D. Brigham Young University
Ellis, Robert W ....(1971)
Professor, Chemistry; Ph.D., Oregon State University
English, Thomas J ....(1996)
Professor, Accountancy; Ph.D., Arizona State University
Erickson, Gary....(1996)
Chair and Professor, Electrical and Computer Engineering; Ph.D., University of Wyoming

F

Feldman, Alex....(1988)
Graduate Program Coordinator and Associate Professor, Mathematics and Computer Science; Ph.D., University of Wisconsin Madison
Foster, Thomas ....(1997)
Associate Professor, Computer Information Systems and Computer Management, Ph.D., University of Missouri-Columbia
Fox, Francis ....(1999)
Assistant Professor, Art; M.F.A., University of Wyoming
Frankle Alan....(1984)
Professor, Marketing and Finance; Ph.D., University of Arizona
Fredericksen, Patricia J. ....(1999)
Associate Professor, Public Policy and Administration; Ph.D., Washington State University
Freemuth John C ....(1986)
Professor, Public Policy and Administration; Political Science; Ph.D., Colorado State University
French, Judith ....(1976)
Professor, Elementary Education and Specialized Studies; Ph.D., Florida State University
Friedli, Robert L ....(1972)
Professor, Foundations, Technology and Secondary Education; Ph.D., University of Utah
Fry, Phillip C....(1987)
Director of Graduate Studies and Associate Professor, Computer Information Systems and Production Management; Ph.D., Louisiana State University
Fuhriman, Jay R ....(1982)
Professor, Bilingual Education, Elementary Education and Specialized Studies; Ed.D., Texas A & M University

G

Gallup, V Lyman ....(1977)
Associate Professor, Computer Information Systems and Production Management; Ph.D., University of Oregon
Gardner, John F....(2000)
Chair and Professor, Mechanical Engineering; Ph.D., Ohio State University
Garrett, Joyce Lynn....(2000)
Dean and Professor, College of Education; Ph.D., University of Oregon
Garza, Maria Alicia....(1997)
Assistant Professor, Modern Languages, Ph.D., University of Arizona
Gehrke, Pamela ....(1998)
Associate Professor, Health Science; M.S., University of Portland
Giacomazzi, Andrew ....(1998)
Graduate Program Coordinator and Assistant Professor, Criminal Justice Administration; Ph.D., Washington State University
Gill, Jill K....(2000)
Assistant Professor, History; Ph.D., University of Pennsylvania, Philadelphia
Girvan, James....(2000)
Associate Dean, Graduate Program Coordinator, and Professor, College of Health Sciences; Ph.D., University of Oregon
Glen, Roy....(1982)
Associate Professor, Management; Ph.D., Case Western Reserve University
Gonzales, J E....(1995)
Assistant Professor, Social Work; Ph.D., University of Texas
Gore, Richard....(1999)
Assistant Professor, Accountancy; Ph.D., Washington State University
Gough, Newell “Sandy” ....(1989)
Chair and Associate Professor, Management; Ph.D., University of Utah
Gould, Elizabeth....(1999)
Assistant Professor, Music; D.M.A., University of Oregon
Grantham, Stephen B ....(1982)
Associate Professor, Mathematics; Manager, Enrollment Information Systems; Ph.D., University of Colorado
Green, Gary I....(1988)
Professor, Computer Information Systems and Production Management; Ph.D., University of Washington
Griffin, John....(1983)
Chair and Associate Professor, Computer Science; Ph.D., Washington State University
Groebner, David F ....(1973)
Chair and Professor, Computer Information Systems and Production Management; Ph.D., University of Utah
Guarino, Joseph....(2000)
Professor, Mechanical Engineering; Ph.D., University of Idaho
Guilford, Charles....(1981)
Associate Professor, English; Ph.D., Northwestern University

H

Hadden, James E....(1997)
Assistant Professor, English; M.A., University of Washington

Hamilton, Robert W.....(2000)
Associate Professor, Civil Engineering; Ph.D., University of Maine
Hanlon, Heather.....(1991)
Graduate Program Coordinator and Professor, Art; Ed.D., University of Oregon
Hanna, Charles B.....(1996)
Assistant Professor, Physics; Ph.D., Stanford University
Hanson, Marla.....(1991)
Associate Professor, Theatre Arts; M.F.A., University of Utah
Harkness, Daniel.....(1993)
Associate Professor, Social Work; Ph.D., University of Kansas
Harris, Chad.....(1995)
Associate Professor, Health, Physical Education and Recreation; Ph.D., Oregon State University
Harrison, Teresa Delgadillo.....(1997)
Assistant Professor, Foundations, Technology and Secondary Education; Ed.D., University of Nevada, Las Vegas
Hartman, Joseph A.....(2000)
Associate Professor, Electrical and Computer Engineering; Ph.D., Carnegie Institute of Technology
Harvey, Keith.....(2000)
Assistant Professor, Marketing and Finance; Ph.D., University of Tennessee, Knoxville
Hausrath, Alan R.....(1977)
Chair and Professor, Mathematics; Ph.D., Brown University
Haws, David R.....(2000)
Associate Professor, Civil Engineering; Ph.D., Brigham Young University
Heap, Felix A.....(1978)
Professor, Art; Ph.D., University of Minnesota
Hemmens, Craig.....(1996)
Academic Director, Legal Assistant Program; Assistant Professor, Criminal Justice Administration; J.D., North Carolina Central University; Ph.D., Sam Houston State University
Henderson, Heike.....(1998)
Assistant Professor, Modern Languages; Ph.D., University of California-Davis
Hepler, Juanita.....(1991)
Professor, Social Work; Ph.D., University of Wisconsin, Madison
Hetherington, Laurel Traynowicz.....(2000)
Associate Professor, Communication; Ph.D., University of Iowa
Hoeger, Werner W K.....(1986)
Director, Human Performance Laboratory; Professor, Health, Physical Education and Recreation; Ed.D., Brigham Young University
Holmes, Janet.....(1999)
Assistant Professor, English; M.F.A., Warren Wilson College
Holmes, M. Randall.....(1996)
Associate Professor, Mathematics and Computer Science; Ph.D., State University of New York at Binghamton
Honts, Charles R.....(1995)
Chair and Professor, Psychology; Ph.D., University of Utah
Hoste, Ann.....(1990)
Associate Professor, Theatre Arts; M.F.A., University of Texas at Austin
Hourcade Jack Joseph.....(1987)
Professor, Elementary Education and Specialized Studies; Ph.D., University of Missouri, Columbia
Huff, Daniel D.....(1970)
Professor, Social Work; M.S.W., University of Kansas
Husting, Virginia.....(1999)
Assistant Professor, Sociology; Ph.D., University of Illinois, Urbana-Champlaign

J

Jain, Amit.....(1996)
Associate Professor, Mathematics and Computer Science; Ph.D., University of Central Florida
Jirak, James.....(1994)
Assistant Professor, Music; D.A., University of Colorado
Jones, Daryl E.....(1986)
Provost and Vice President for Academic Affairs; Professor, English; Ph.D., Michigan State University
Jones, Errol D.....(1982)
Professor, History; Ph.D., Texas Christian University
Jorcyk, Cheryl.....(1998)
Assistant Professor, Biology; Ph.D., Johns Hopkins University

K

Kania-Bartoszynska, Joanna.....(1996)
Associate Professor, Mathematics and Computer Science; Ph.D., University of California, Berkeley
Kelley, Lorrie Lynn.....(1991)
CT/MRI Program Director and Associate Professor, Radiologic Sciences; M.S., Boise State University
Kelly, Philip P.....(1998)
Visiting Assistant Professor; Foundations Technology, and Secondary Education; Ph.D., Michigan State University
Kenny, G Otis.....(1976)
Associate Professor, Mathematics and Computer Science; Ph.D., University of Kansas
Kerr, Charles R.....(1969)
Professor, Mathematics and Computer Science; Ph.D., University of British Columbia
Khanal, Mandar.....(2000)
Assistant Professor, Civil Engineering; Ph.D., University of California, Irvine
Kinney, Richard.....(1976)
Professor, Public Policy and Administration; Political Science; Ph.D., University of Notre Dame
Kinzel, Margaret N.....(2000)
Assistant Professor, Mathematics; Ph.D., Pennsylvania State University
Klaustch, Richard.....(1992)
Chair and Associate Professor, Theatre Arts; Ph.D., Wayne State University
Knoll, Michael.....(1997)
Research Professor, Geosciences; Ph.D., University of British Columbia
Knowlton, William B.....(2000)
Assistant Professor, Electrical and Computer Engineering; Ph.D., University of California, Berkeley
Koeppen, David R.....(1996)
Associate Professor, Accountancy: Ph.D., University of Wisconsin-Madison
Koetsier, Peter.....(1997)
Associate Professor, Biology, Ph.D., Idaho State University
Kosasa, Karen K.....(1998)
Assistant Professor; A.B.D. M.F.A., M.A., University of Rochester
Kozar, Bill.....(1989)
Professor, Health, Physical Education and Recreation; Ph.D., University of Iowa
Kyle Patricia.....(1996)
Associate Professor, Elementary Education and Specialized Studies; Ph.D., University of Idaho

L

La Cava, Gerald.....(1982)
Professor, Computer Information Systems and Production Management; Ph.D., University of Kansas
Lambert, Carroll.....(1976)
Professor, Elementary Education and Specialized Studies; Ed.D., Utah State University
Lamelas, Francisco J.....(2000)
Assistant Professor, Physics; Ph.D., University of Michigan
Lamet, Daniel G.....(1970)
Professor, Mathematics and Computer Science; Ph.D., University of Oregon
Landrum, R. Eric.....(1992)
Professor, Psychology; Ph.D., Southern Illinois University at Carbondale
LaRiviere, Sara.....(1989)
Associate Professor, Health Studies; Ed.D., University of LaVerne
Lathen, William.....(1984)
Dean, College of Business and Economics; Professor, Accountancy; Ph.D., Arizona State University
Leahy, Richard.....(1971)
Professor, English; Ph.D., University of California, Davis
LeMaster, Clifford.....(1990)
Professor, Chemistry; Ph.D., University of California, Davis
Lichtenstein, Peter M.....(1975)
Professor, Economics; Ph.D., University of Colorado
Liley, Denise Goodrich.....(1997)
Assistant Professor, Social Work; Ph.D., University of Utah
Limaye, Mohan.....(1992)
Professor, Marketing and Finance; Ph.D., University of Wisconsin
Lincoln, Douglas J.....(1980)
Professor, Marketing and Finance; Ph.D., Virginia Polytechnic Institute and State University
Lindsey, Melinda.....(1987)
Professor, Elementary Education and Specialized Studies; Ph.D., University of Oregon
Lojek, Helen.....(1979)
Professor, English; Ph.D., University of Denver
Long, Elaine M.....(1975)
Chair and Professor, Health Studies; Ph.D., University of Idaho

Long, James A ....(1974)
Associate Professor, Biology; Ph.D., Iowa State University
Loucks Christine ....(1989)
Professor, Economics; Ph.D., Washington State University
Luke, Robert A. ....(1971)
Chair and Professor, Physics; Ph.D., Utah State University
Lusth, John C ....(1997)
Assistant Professor, Mathematics and Computer Science; Ph.D., University of Alabama
Lutze, Peter C ....(1990)
Assistant Professor, Communication; Ph.D., University of Wisconsin
Lyle, Mitchell ....(1995)
Research Professor, Geosciences; Ph.D., Oregon State University
Lyons, Lamont S ....(1977)
Professor, Foundations, Technology and Secondary Education; Ed.D., University of Massachusetts

M

MacDonald, Jason B....(2000)
Assistant Professor, Marketing and Finance; Ph.D., University of Texas-Pan American
Maguire, James H ....(1970)
Professor, English; Ph.D., Indiana University
Maher, Matthew ....(1989)
Associate Professor, Marketing and Finance; Ph.D., University of Illinois
Markel, Michael ....(1990)
Director of Technical Communication and Professor, English; Ph.D., Pennsylvania State University
Marsh, Robert L ....(1974)
Associate Professor, Criminal Justice Administration; Ph.D., Sam Houston State University
Martin, Carol A ....(1972)
Graduate Program Coordinator and Professor, English; Ph.D., Catholic University of America
Mathie, David ....(1992)
Professor, Music; D.M.A., University of Georgia
Maxson, Emerson....(1997)
Associate Professor, Computer Information Systems and Production Management, Ph.D., Texas Tech University
Maynard, Ritchard ....(1990)
Assistant Professor, Music; M.A., University of Iowa
McCain, Gary....(1979)
Professor, Marketing; Ph.D., University of Oregon
McCarl, Robert S III....(1994)
Associate Professor, Anthropology, Ph.D., Memorial University of Newfoundland
McChesney, John W....(1997)
Associate Professor, Health, Physical Education and Recreation, Ph.D., University of Oregon
McCloskey, Richard....(1976)
Professor, Biology; Ph.D., Iowa State University
McCorkle Suzanne....(1978)
Interim Dean, College of Social Sciences and Public Affairs; Professor, Communication; Ph.D., University of Colorado
McGown, Jr., John ....(1999)
Associate Professor, Accountancy; LL.M., University of Denver
McLuskie, C Ed Jr ....(1981)
Professor, Communication; Ph.D., University of Iowa
McNamara, James P. ....(1997)
Assistant Professor, Geosciences; M.S., Syracuse University
McNeil, Larry ....(1999)
Assistant Professor, Art; M.F.A., University of New Mexico
Mercer, Gary D....(1975)
Professor, Chemistry; Ph.D., Cornell University
Michaels, Paul....(1994)
Associate Professor, Geosciences, Ph.D., University of Utah
Miller, Margaret ....(1994)
Chair, Graduate Program Coordinator, and Professor, Counselor Education; Ph.D., University of Idaho
Miller, Nicholas....(1993)
Associate Professor, History; Ph.D., University of Indiana
Miller, Rickie ....(1992)
Associate Professor, Elementary Education and Specialized Studies; Ph.D., New Mexico State University
Mills, Janet Lee....(1989)
Professor, Public Policy and Administration; Ph.D., University of Kansas
Minch, Robert P ....(1986)
Professor, Computer Information Systems and Production Management; Ph.D., Texas Tech University
Moll, Amy J....(2000)
Assistant Professor, Mechanical Engineering; Ph.D., University of California, Berkeley
Moncrief, Gary F ....(1976)
Professor, Political Science; Ph.D., University of Kentucky
Moore, Rick Clifton....(1994)
Associate Professor, Communication; Ph.D., University of Oregon
Moorhead-Rosenberg, Florence J. ....(1993)
Associate Professor, Modern Languages; Ph.D., University of California, Davis
Morris, Daniel N....(1986)
Assistant Professor, Communication; Ph.D., University of Missouri
Most, Marshall....(1995)
Assistant Professor, Communication; M.A., Boise State University
Mulhern, Margaret ....(1996)
Assistant Professor, Elementary Education and Specialized Studies; Ph.D., University of Illinois at Chicago
Munger, James C ....(1988)
Chair and Professor, Biology; Ph.D., University of Arizona
Murgel, George A....(2000)
Associate Professor, Civil Engineering; Ph.D., Cornell University

N

Nagasundaram, Murli ....(1996)
Associate Professor, Computer Information Systems and Production Management; Ph.D., University of Georgia
Napier, Nancy K....(1986)
Director of International Business Consortium and Programs, College of Business and Economics; Professor, Management; Ph.D., Ohio State University
Neely, Kent....(1994)
Associate Dean, College of Arts and Sciences; Director of Interdisciplinary Studies; Professor; Theatre Arts; Ph.D., Wayne State University
Nelson, Anne M....(1967)
Counseling Psychologist and Associate Professor, Counseling; Ph.D., University of Oregon
Nicholson, James A....(1986)
Director, Counseling and Testing Center; Counseling Psychologist; Professor, Counseling; Ph.D., University of Missouri, Columbia
Northrup, Clyde J. ....(1998)
Graduate Program Coordinator and Assistant Professor, Geosciences; Ph.D., Massachusetts Institute of Technology
Novak, E. Shawn ....(1996)
Associate Professor, Accountancy; Ph.D., University of Houston
Novak, Stephan....(1993)
Associate Professor, Biology; Ph.D., Washington State University

O

Odahl, Charles M....(1975)
Professor, History; Ph.D., University of California, San Diego
Olmstead, Robert M....(1997)
Graduate Program Coordinator, Creative Writing and Associate Professor, English; M.A., Syracuse University
Olsen-Smith, Steven....(2000)
Assistant Professor, English; Ph.D., University of Delaware
Orr, Martin....(2000)
Assistant Professor, Sociology; Ph.D., University of Oregon
Oxford, Julia Thom ....(2000)
Assistant Professor, Biology; Ph.D., Washington State University, Pullman

P

Palmer, Rosemary ....(1998)
Assistant Professor, Elementary Education and Specialized Studies; Ph.D., University of Wyoming
Parke, Stephen A ....(1996)
Associate Professor, Electrical Engineering; Ph.D., University of California, Berkeley
Parker, Ben L....(1977)
Professor, Communication; Ph.D., Southern Illinois University, Carbondale
Parkinson, Del R....(1985)
Professor, Music; D.M., Indiana University
Parks, Donald J....(1973)
Professor, Mechanical Engineering; Ph.D., University of Minnesota

Parrett, William H. ....(1996)
Professor, Foundations, Technology, and Secondary Education; Ph.D., Indiana University
Patrick, Steven ....(1991)
Associate Professor, Sociology; Ph.D., University of California-Riverside
Patton, W. David ....(1989)
Applied Research Director, Center for Public Policy and Administration; Professor, Public Policy and Administration, Political Science; Ph.D., University of Utah
Pavesic, Max G....(1973)
Professor, Anthropology; Ph.D., University of Colorado, Boulder
Payne, Michelle M. ....(1997)
Assistant Professor, English; Ph.D., University of New Hampshire
Payne, Richard D....(1970)
Professor, Economics; Ph.D., University of Southern California
Pelton, John R....(1981)
Graduate Program Coordinator and Professor, Geosciences; Ph.D., University of Utah
Penry, Tara....(2000)
Assistant Professor, English; Ph.D., Fordham University
Petkus, Edward Jr. ....(1993)
Associate Professor, Marketing and Finance; Ph.D., University of Tennessee
Petlichkoff, Linda M....(1987)
Professor, Kinesiology; Ph.D., University of Illinois
Pfeiffer, Ronald ....(1979)
Graduate Program Coordinator and Professor, Kinesiology; Ed.D., Brigham Young University
Plew, Mark G....(1984)
Professor, Anthropology; Ph.D., Indiana University, Bloomington
Pollard, Constance ....(1993)
Professor, Foundations, Technology and Secondary Education; Ph.D., University of Nebraska, Lincoln
Potter, Glenn R....(1985)
Associate Dean, College of Education; Professor, Kinesiology; Ed.D., Brigham Young University
Purdy, Craig A ....(1987)
Assistant Professor, Music; M.M., New England Conservatory

R

Rafla, Nader....(1996)
Associate Professor, Electrical and Computer Engineering; Ph.D., Case Western Reserve University
Ray, Nina Marie....(1986)
Professor, Marketing and Finance; Ph.D., Texas Tech University
Raymond, Gregory A ....(1974)
Honors Program Director and Professor, Political Science; Ph.D., University of South Carolina
Reeder, Heidi M....(2000)
Assistant Professor, Communication; Ph.D., Arizona State University
Reynolds, R Larry ....(1979)
Professor, Economics; Ph.D., Washington State University
Robbins, Bruce ....(1990)
Associate Professor, English; Ph.D., Indiana University
Roberts, George F....(1970)
Professor, Art; M.F.A., University of Iowa
Robertson, Ian C ....(2000)
Assistant Professor, Biology; Ph.D., Simon Fraser University, Burnaby, B.C., Canada
Rogien, Lawrence....(1993)
Assistant Professor, Foundations, Technology and Secondary Education; Ph.D., Indiana University
Rohlfing, Mary E....(1992)
Associate Professor, Communication; Ph.D., University of Iowa
Rohn, Troy ....(2000)
Assistant Professor, Biology; Ph.D., University of Washington
Rosine, Gary....(1995)
Chair and Professor, Art; Ph.D., School of Visual Arts, Pennsylvania State University
Rudd, Robert A ....(1985)
Associate Professor, Communication; Ph.D., University of Oregon
Rule, Audrey ....(1997)
Assistant Professor, Elementary Education and Specialized Studies; Ph.D., University of Wisconsin, Madison
Rushing-Raynes, Laura....(1999)
Assistant Professor, Music; D.M.A., University of Arizona
Russell, Dale D....(1995)
Associate Professor, Chemistry; Ph.D., University of Arizona, Tucson
Russell, Lynn Darnell....(2000)
Dean and Professor, College of Engineering; Ph.D., Rice University
Ruud, William ....(1997)
Professor, Management; Ph.D., University of Nebraska
Rychert, Robert C ....(1975)
Professor, Biology; Ph.D., Utah State University
Ryder, Mary Ellen....(1988)
Associate Professor, English; Ph.D., University of California, San Diego

S

Sadler, Norma J ....(1973)
Professor, Elementary Education and Specialized Studies; Ph.D., University of Wisconsin, Madison
Samball, Michael ....(1976)
Associate Professor, Music; D.M.A., North Texas State University
Sanderson, Irene (Rena) ....(1994)
Associate Professor, English; Ph.D., University of Colorado, Boulder
Sanderson, Richard Ken....(1971)
Chair and Associate Professor, English; Ph.D., New York University
Sarikas, Robert Zeke....(1996)
Associate Professor, Accountancy; Ph.D., University of Illinois at Urbana-Champaign
Saunders, David....(1997)
Assistant Professor, Music; DMA, State University of New York at Stonybrook
Schackel, Sandra K....(1989)
Associate Professor, History; Ph.D., University of New Mexico
Scheepers, Marion....(1988)
Professor, Mathematics; Ph.D., University of Kansas
Schimpf, Martin E ....(1990)
Chair and Professor, Chemistry; Ph.D., University of Utah
Schooley, Diane....(1989)
Associate Dean, College of Business and Economics and Associate Professor, Marketing and Finance; Ph.D., University of Colorado, Boulder
Seibert, Pennie S....(1990)
Professor, Psychology; Ph.D., University of New Mexico
Sener, Joseph....(1996)
Associate Professor, Civil Engineering; Ph.D., Northwestern University
Serpe, Marcelo....(1998)
Assistant Professor, Biology; Ph.D., University of California, Davis
Shadle, Susan....(1997)
Assistant Professor, Chemistry, Ph.D., Stanford University
Shallat, Todd A ....(1985)
Professor, History; Ph.D., Carnegie-Mellon University
Shannon, Patrick ....(1974)
Professor, Computer Information Systems and Production Management; Ph.D., University of Oregon
Shook, Gary....(1995)
Director, Environmental Health Program and Professor, Health Science; Sc.D., Tulane University School of Public Health and Tropical Medicine
Shurtleff-Young Cheryl....(1978)
Professor, Art; M.A., University of Oregon
Silva, Charlotte ....(2000)
Assistant Professor, Elementary Education and Specialized Studies; Ph.D., University of New Mexico
Simon, Louis P ....(1998)
Assistant Professor, English; Ph.D., Loyola University
Singletary, Ted J....(1989)
Professor, Elementary Education and Specialized Studies; Ph.D., University of Illinois, Urbana-Champaign
Skoro, Charles L ....(1982)
Chair and Professor, Economics; Ph.D., Columbia University
Smith, Brent....(1980)
Professor, Art; M.F.A., Utah State University
Smith, Elisa Barney....(1999)
Assistant Professor, Electrical and Computer Engineering; Ph.D., Rensselaer Polytechnic Institute
Smith, James F....(1992)
Associate Professor, Biology; Ph.D., University of Wisconsin, Madison
Smith, Kirk....(1993)
Chair and Professor, Marketing and Finance; Ph.D., University of Houston
Smith, Mary Jarratt....(1987)
Associate Professor, Mathematics and Computer Science; Ph.D., Montana State University
Smith, William S....(1973)
Professor, Physics; Ph.D., University of Wisconsin, Madison

Snyder, Walter S ....(1984)
Graduate Program Coordinator, Earth Science and Professor, Geosciences; Ph.D., Stanford University
Spear, Caile E. ....(1996)
Assistant Professor, Kinesiology; Ph.D., University of Arkansas
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
Steiner, Stanley ....(1992)
Associate Professor, Elementary Education and Specialized Studies; Ph.D., University of Wyoming
Stewart, Roger ....(1995)
Professor, Elementary Education and Specialized Studies; Ph.D., Purdue University
Stohr, Mary ....(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
Sulanke Robert....(1970)
Professor, Mathematics and Computer Science; Ph.D., University of Kansas

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, James ....(1997)
Dean and Professor, College of Health Sciences; Ed.D., George Washington University
Taylor, Patricia A ....(1975)
Director of B.S.N. Nursing and Professor, Nursing; M.S., Idaho State University
Taylor Ronald S ....(1975)
Professor, Art; M.F.A., Utah State University
Tennyson, Stephen A. ....(2000)
Associate Professor, Mechanical Engineering; Ph.D., Wayne State University
Thorsen Carolyn ....(1987)
Director of Technology Programs and 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
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....(1996)
Assistant Professor, Music; D.M.A., Eastman School of Music

U

Uehling, Karen S....(1981)
Associate Professor, English; M.A., University of California, Davis

V

Vaughn, Ross E....(1973)
Chair and Professor, Kinesiology; Ph.D., Washington State University

W

Waite, Wenden W ....(1976)
Chair and Professor, Elementary Education and Specialized Studies; Ph.D., Utah State University
Walen, Sharon ....(1996)
Graduate Program Coordinator and Associate Professor, Mathematics; Ph.D., Washington State University
Walsh, Anthony ....(1984)
Professor, Criminal Justice Administration; Ph.D., Bowling Green State University
Wanek, James E. ....(1997)
Associate Professor, Management, Ph.D., University of Minnesota
Ward, Frederick R ....(1969)
Professor, Mathematics and Computer Science; Ph.D., Virginia Polytechnic Institute State University
Weatherby, James B....(1989)
Chair and Associate Professor, Public Policy and Administration; Political Science; Ph.D., University of Idaho
White, Craig....(1980)
Professor, Geosciences; Ph.D., University of Oregon
White, Harry ....(1988)
Professor, Marketing and Finance; Ph.D., Texas A & M University
Wicklow-Howard, Marcia....(1975)
Professor, Biology; Ph.D., Oregon State University
Widmayer, Jan ....(1978)
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 K ....(1994)
Interim Director, Graduate Program Coordinator, and Associate Professor, Social Work; Ph.D., University of Alabama
Wines, William A ....(1984)
Professor, Management; J.D., University of Michigan
Winiecki, Donald J ....(1996)
Assistant Professor, Instructional & Performance Technology; Ed.D., Texas Tech University
Witt, Stephanie L....(1989)
Associate Vice President for Academic Affairs and Professor, Political Science; Public Policy and Administration; Ph.D., Washington State University
Wojtkowski, W. Gregory....(1997)
Professor, Computer Information Systems and Production Management, Ph.D., Case Western Reserve University
Wojtkowski, Wita ....(1997)
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, L. Shelton ....(1994)
Graduate Program Coordinator and Associate Professor, History; Ph.D., University of California, Los Angeles
Wyers, Gisells....(2000)
Assistant Professor, Music; D.M.A., University of Arizona

Y

Yeh, Jyh-haw....(2000)
Assistant Professor, Computer Science; Ph.D., University of Florida
Young, Katherine....(1988)
Professor, Elementary Education and Specialized Studies; Ed.D., Utah State University
Young, Richard A ....(1994)
Gallery Director, Graduate Program Coordinator, 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 Marie ....(1987)
Professor, English; Ph.D., Washington State University
Zirinsky, Michael P ....(1973)
Professor, History; Ph.D., University of North Carolina Chapel Hill

Adjunct Graduate Faculty

Part Time Faculty, Faculty from Other Universities, and Personnel from Affiliated Agencies as of April 2001

NOTE: The date in parentheses is the year of first graduate appointment.

A

Albright, Laura, M.H.S., Health Science....(1998)
Allaire, Bobbie M., M.S., Instructional Technology....(1994)

B

Bart, Jonathan, Ph.D., Biology....(1997)
Beecham, John J., Ph.D., Biology....(1986)
Belcheir, Marcia J., Ph.D., Instructional Technology....(1996)
Bentley, Elton D., Ph.D.,Geosciences Emeritus....(1981)
Bond, Laura, M.S., Biology....(2001)
Breithaupt, David L., Secondary Education....(2000)
Burnham, William, Ph.D., Biology....(1987)
Burns, Richard V., B.A., Public Policy and Administration....(1996)

C

Cade, Tom, Ph.D., Biology Emeritus....(1989)
Chadwick, Daniel G., J.D., Public Policy and Administration....(1996)
Chyung, Seung Youn, Ed.D., Instructional Technology....(1997)
Clement, William P., Ph.D., Geosciences....(1998)
Clemo, Thomas M., Ph.D., Geosciences....(1998)
Corbin, Robert, M.A., Sociology....(1990)
Crookham, Larry K., M.S., Instructional Technology....(1996)

D

Davydov, Vladimir I., Ph.D., Geosciences....(1999)
Donato, Mary M., Ph.D., Geosciences....(1996)
Douglas, Dorothy, Ph.D., Biology Emeritus....(1987)

E

Earnst, Susan, Ph.D., Biology....(1997)
Eastmond, Daniel V., Ph.D., Instructional Technology....(1996)
Eisele, Theodore A., B.S., Instructional Technology....(1995)
Ensley, Mary L., M.A., Counseling....(1996)
Erickson, Robert, Instructional Technology....(1998)
Ertmer, Peggy, Ph.D., Instructional Technology....(1996)

F

Feldman, Murray, J.D., Public Policy and Administration....(1998)
Fenner, JoAnn O'Brien, M.S., Instructional Technology....(1994)
Freeman, Brenda, Ph.D., Counseling....(1996)
Fuller, Mark R., Ph.D., Biology....(1992)
Furness, Susan Reuling, M.Ed., School Counseling....(1997)
Furness, Timothy J., M.Ed., School Counseling....(1997)

G

Gayeski, Diane, Ph.D., Instructional Technology....(1999)
Genoways, Hugh, Ph.D., Secondary Education....(2001)
Gillerman, Virginia, Ph.D., Geosciences....(1994)

H

Hadjokas, Nicholas, Ph.D., Biology....(1998)
Hahn, Christine, M.D., Health Science....(1998)
Hambelton, Ben M.Ed., Instructional Technology....(1987)
Hardegree, Stuart, Ph.D., Biology....(1995)
Hawkins, Nina, M.L.S., Elementary Education....(1992)
Hemphill-Haley, Mark Allen, Ph.D., Geosciences....(2001)
Henbest, Margaret, M.S., Health Science....(1998)
Hill, Lyla, M.S., Health Science....(1997)
Hoffman, Rebecca, Theatre Arts....(1997)
Hollenbaugh, Kenneth M., Ph.D., Geosciences (Emeritus)....(1968)
Holmes, Robina, M.Ed., Elementary Education....(1992)

I

Ilett, Frank Jr., M.B.A., Accountancy....(1996)
Itkonan, Liisa, Ph.D., Sociology....(1998)

J

Jaeger, Michael, Ed.D., Secondary Education....(2001)
Jarocki, William L., M.P.A., Public Policy and Administration....(1998)
Jenkins, Susan, Ph.D., Secondary Education....(2001)
Johnson, Rich, Ph.D., Secondary Education....(1987)

K

Kerns-Blain, Angeline, M.A., Sociology....(1990)
Kidder, Brenton A., Ed.D., Secondary Education....(1999)
Kiff, Lloyd Francis, M.A., Biology....(1995)
Knapp, James M.S.W., Social Work....(1993)
Knick, Steven T. Ph.D., Biology....(1990)
Knox, Ellis (Skip) Ph.D., History....(1990)
Kobe, Nancy, M.Ed., Counseling....(1998)
Kochert, Michael, M.S., Biology....(1987)

L

Langenfeld, Mary, Ph.D., Secondary Education....(2000)
Lanzet, Steven, M.Ed., Counseling....(1998)
Louis, Galen, M.S., Health Science....(1996)

M

Ma, Yongsheng, Ph.D., Biology....(1998)
MacGregor, Carol, Ph.D., History....(1998)
Marti, Jr. Carl D., Ph.D., Biology....(1987)
Martini, MaryAnn, M.A., Secondary Education....(2000)
Marzluff, John M., Ph.D., Biology....(1991)
Mazaika, Rosemary, M.S., Biology....(1994)
McClure, Kenneth R., J.D., Public Policy and Administration....(1997)
Melquist, Wayne, Ph.D., Biology....(1988)
Miller, Alison, M.A., Health Science....(2000)
Miller, Beverly, M.A., History....(1998)
Mitten, Joanne, M.S., Health Science....(1999)
Monfort, Stephen, Ph.D., Biology....(2000)
Moore, Heber G., Ph.D., Instructional Technology....(1996)

N

Newby, Timothy, Ph.D., Instructional Technology....(1997)
Nodler, Phyllis, M.S., Counseling....(1999)

O

Oberbeck, Verne, Ph.D., Geosciences....(1994)
Olson, Richard D., Ph.D., Biology....(1997)
Olson, Richard, Ph.D., Health Science....(1997)
Othberg, Kurt L., Ph.D., Geosciences....(1996)

P

Park, Susan, J.D., Management....(1999)
Pearson, Thel, Ph.D., Education Emeritus....(1981)
Peterson, Neil, M.S.S., Geosciences....(2001)
Phelps, Ruth, Ph.D., Secondary Education....(1994)
Pitman, Jeffrey, M.S., Kinesiology....(1999)
Plasket, Donna, Ph.D., Education....(1996)
Powell, Linda, M.S., Health Science....(2000)
Pullen, Rebecca, Ph.D., Biology....(1994)

R

Reynolds, Timothy, Ph.D., Biology....(1999)
Rieman, Bruce, Ph.D., Biology....(1999)
Ripley, David E., M.B.A., Instructional Technology....(1998)
Rodgers, David W., Ph.D., Geosciences....(1987)
Roloff, Gary John, Ph.D., Biology....(1997)
Rood, Christine, M.S., Secondary Education....(1998)
Rosentreter, Roger, Ph.D., Biology....(1987)
Rush, Mike, Ed.D., Secondary Education....(1999)
Ryan, Randall, Ph.D., Biology....(1998)

Boise State University Adjunct Graduate Faculty

S

Saab, Victoria, Ph.D., Biology ..... (1998)
Sallabanks, Rex, Ph.D., Biology ..... (1994)
Schamp, Cindy, M.A. ..... (1998)
Schiappa, Tamra, A.B.D./Ph.D., Geosciences ..... (1999)
Schweibert, Penelope, Ph.D., Instructional Technology ..... (1999)
Seyfried, Mark, Ph.D., Geosciences ..... (1993)
Shea, Kevin, M.D., Kinesiology ..... (2001)
Small, Milton, M.A., History ..... (1990)
Smith, Scott, Ph.D., Economics ..... (1999)
Spence, Michael J. Ph.D., Biology ..... (1998)
Squires, Edward, M.S., Geology ..... (1995)
Steenhof, Karen, M.S., Biology ..... (1987)
Stepich, Donald, Ph.D., Instructional Technology ..... (1998)
Stevens, Dennis L., Ph.D., M.D., Biology ..... (1998)
Stevenson, Kurt Brown, M.D., Health Sciences ..... (1999)
Stokes, Lee, Ph.D., Health Science (Emeritus) ..... (1988)
Sutton, Nancy Jo, D.V.M., Biology ..... (1999)

T

Toney, Patricia N. MA., Secondary Education ..... (1996)
Turk, Blossom M., Ed.D., Secondary Education ..... (2001)
Tydeman, William, Ph.D., History ..... (1994)

V

Vakili, Donna, M.S., Secondary Education ..... (1996)
Van Maren, Nancy, M.A., M.S.W., Health Sciences ..... (1998)
Virta, Alan, M.L.S., History ..... (1989)

W

Waag, Charles J., Ph.D., Geosciences Emeritus ..... (1981)
Watson, Richard T., Ph.D., Biology ..... (1990)
Watts, Barry, Ph.D., Counseling ..... (1996)
Weinberg, Pamela, Ph.D., Health Sciences ..... (1998)
Whitacre, David, Ph.D., Biology ..... (1990)
Williams, Rick, Ph.D., Biology ..... (1989)
Wilson, Kevin, M.A., English ..... (1995)
Wilson, Monte, Ph.D., Geosciences Emeritus ..... (1971)
Wingett, Denise, Ph.D., Biology ..... (1999)

Y

Young, Virgil M., Ph.D., Secondary Education ..... (1970)
Yopp, Martha, Ed.D., Secondary Education ..... (2001)
Youtz, D. Jeffrey, B.A., Public Policy and Administration ..... (1999)

Z

Zollweg, James E., M.S., Geosciences ..... (1995)

At-Large Graduate Faculty

Participants in multi-university programs.

Anderson, Jay E., Ph.D., Biology ..... (1986)
Anderson, Robert C., Ph.D., Biology ..... (1986)
Farrell, Larry D., Ph.D., Biology ..... (1986)
Goodwin, Peter, Ph.D., Engineering ..... (2000)
Griffith, John S., Ph.D., Biology ..... (1986)
Hackett, William R., Ph.D., Geosciences ..... (1987)
Holte, Karl E., Ph.D., Biology ..... (1986)
House, Edwin W., Ph.D., Biology ..... (1986)
Keller, Barry L., Ph.D., Biology ..... (1986)
Link, Paul Karl, Ph.D., Geosciences ..... (1987)
McCune, Mary Joan H., Ph.D., Biology ..... (1986)
McCune, Ron, Ph.D., Biology ..... (1986)
Minshall, Wayne G., Ph.D., Biology ..... (1986)
Osiensky, James, Ph.D., Geosciences ..... (1990)
Rodgers, David W., Ph.D., Geosciences ..... (1987)
Scalarone, Gene M., Ph.D., Biology ..... (1986)
Scott, J. Michael, Ph.D., Biology ..... (1987)
Seeley, Rodney R., Ph.D., Biology ..... (1986)
Spall, Richard D., Ph.D., Biology ..... (1986)
Stauber, Erik H., Ph.D., Biology ..... (1987)
Stephens, Trent D., Ph.D., Biology ..... (1986)
Streubel, Donald P., Ph.D., Biology ..... (1986)
Urfer, Alexander G., Ph.D., Biology ..... (1986)
Winston, Vern D., Ph.D., Biology ..... (1986)

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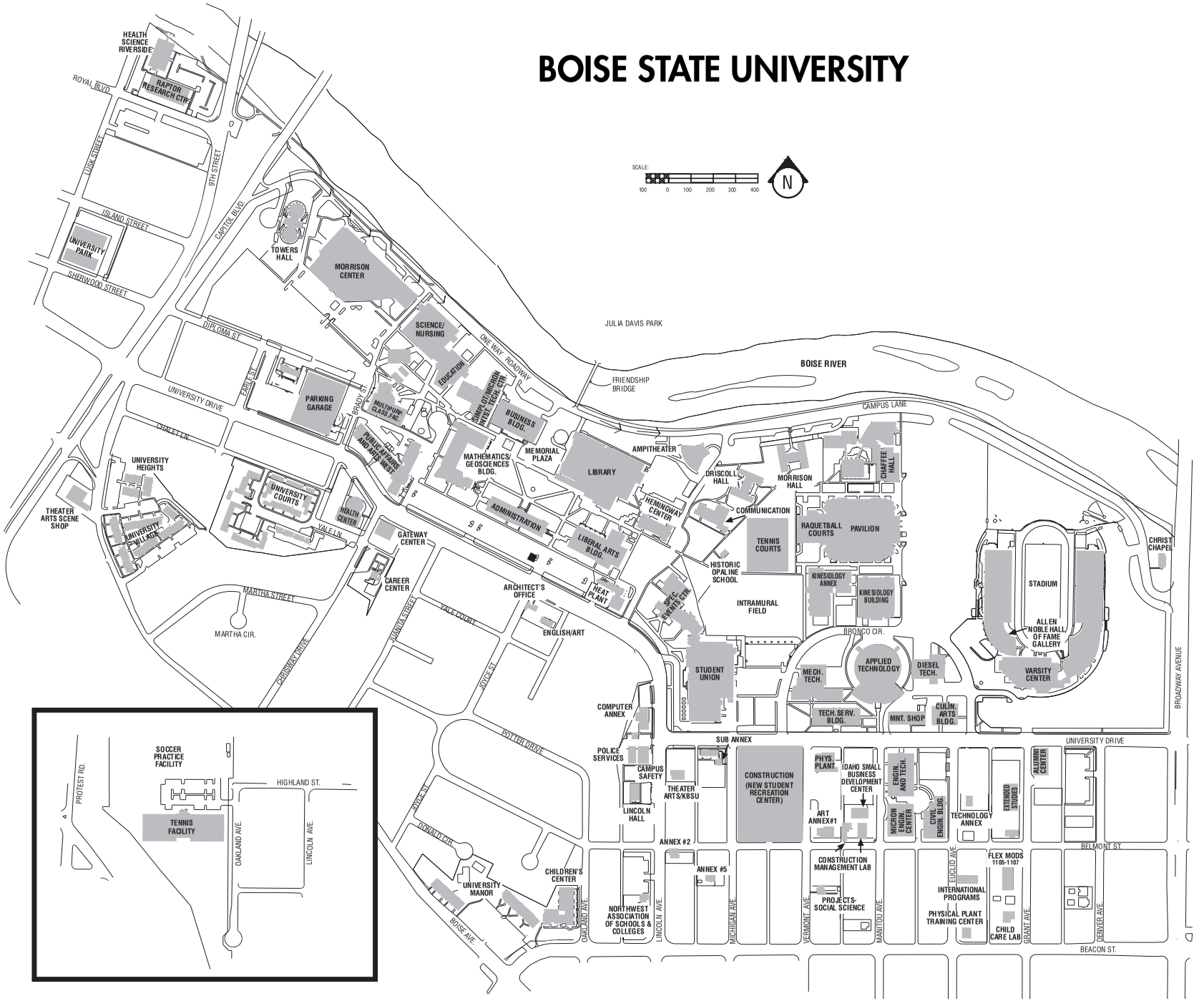

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