CATALOG

graduate

2004-2005

BOISE STATE UNIVERSITY

Welcome from the Graduate Dean

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

The University is a resource for the State of Idaho and for you, the students, who enroll in its programs. Graduate education at Boise State is the essence of intellectual stimulation and the excitement of expanding talents and abilities.

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

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

The Graduate College at Boise State University represents 42 master's degree programs, 7 graduate certificates, and two doctoral programs. It is my pleasure to assist in the administration and delivery of those programs.

If you choose Boise State for graduate education, you will be the beneficiary of many years of effort by faculty and staff. These dedicated individuals have created a tradition of program excellence, superior academic performance, strong advocacy for student success, and an environment of collegiality.

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

My very best wishes for your success,

Jack Pelton

John R. (Jack) Pelton
Dean of the Graduate College

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 reapply for admission before attempting to register for a subsequent semester. **International students may not use this form. Please contact the International Admissions Office 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. Degree Objective from list on back. Check only one and enter here: _____
3. Full Legal Name _____ (Last Name) _____ (First Name) _____ (Middle Name)
   Previous Names _____ Preferred First Name _____
4. Student ID (if a previous applicant) _____
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: (_____) _____
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 _____ (US or other) If not a US citizen, please include a copy of your Resident Alien Card.
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 a completed application, the non-refundable application fee, and have official transcripts sent directly from each post-high school institution attended (other than Boise State) directly to Graduate Admission and Degree Services. 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 Admission and Degree Services, Boise State University, Math/Geoscience 141, 1910 University Drive, Boise, ID 83725.
Telephone (208) 426-3903 or 426-4204. Toll-free nationwide 1-800-824-7017. Fax (208) 426-2789

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

Boise State University
Graduate Admission Application

DEGREE OBJECTIVES

DOCTORAL PROGRAMS

- ☐ EdD in Education, Curriculum & Instruction
- ☐ PhD in Geophysics

MASTER'S PROGRAMS

- ☐ MS in Accountancy
  - ☐ Taxation

MA in Art
- ☐ Art Education
- ☐ Visual Art

- ☐ MPE in Athletic Administration (ISU)
- ☐ MA in Biology
- ☐ MS in Biology
- ☐ Master of Business Administration
- ☐ MEngr in Civil Engineering
- ☐ MS in Civil Engineering
- ☐ MA in Communication
- ☐ MEngr in Computer Engineering
- ☐ MS in Computer Engineering
- ☐ MS in Computer Science
- ☐ Master of Fine Arts in Creative Writing
- ☐ Master of Fine Arts, Visual Arts
- ☐ MA in Criminal Justice Administration
- ☐ MS in Earth Science

MA in Education
- ☐ Curriculum & Instruction
  - ☐ Bilingual Education Option
  - ☐ ESL Option
  - ☐ Physical Education Pedagogy
  - ☐ Secondary Certification Option
- ☐ Early Childhood Studies
- ☐ Reading
- ☐ Special Education

- ☐ MS in Education, Educational Technology
- ☐ MEngr in Electrical Engineering
- ☐ MS in Electrical 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

MA in History
- ☐ Applied
- ☐ Education
- ☐ Research

- ☐ MS in Instructional & Performance Technology
- ☐ MA in Interdisciplinary Studies
- ☐ MS in Interdisciplinary Studies
- ☐ MS in Management Information Systems
- ☐ MEng. in Materials Science & Engineering
- ☐ MS in Materials Science & Engineering
- ☐ MS in Mathematics Education
- ☐ MEngr in Mechanical Engineering
- ☐ MS in Mechanical Engineering

Master of Music
- ☐ Education
- ☐ Pedagogy
- ☐ Performance

- ☐ Master of Public Administration
- ☐ MS in Raptor Biology
- ☐ MA in School Counseling
- ☐ Master of Social Work
- ☐ MA in Technical Communication

GRADUATE CERTIFICATE PROGRAMS

Educational Technology
- ☐ Certificate in Online Teaching
- ☐ Certificate in School Technology Coordination
- ☐ Certificate in Technology Integration Specialist

Geology
- ☐ Certificate in Geospatial Information Analysis

Health Science
- ☐ Certificate in Addiction Studies
- ☐ Certificate in Health Services Leadership

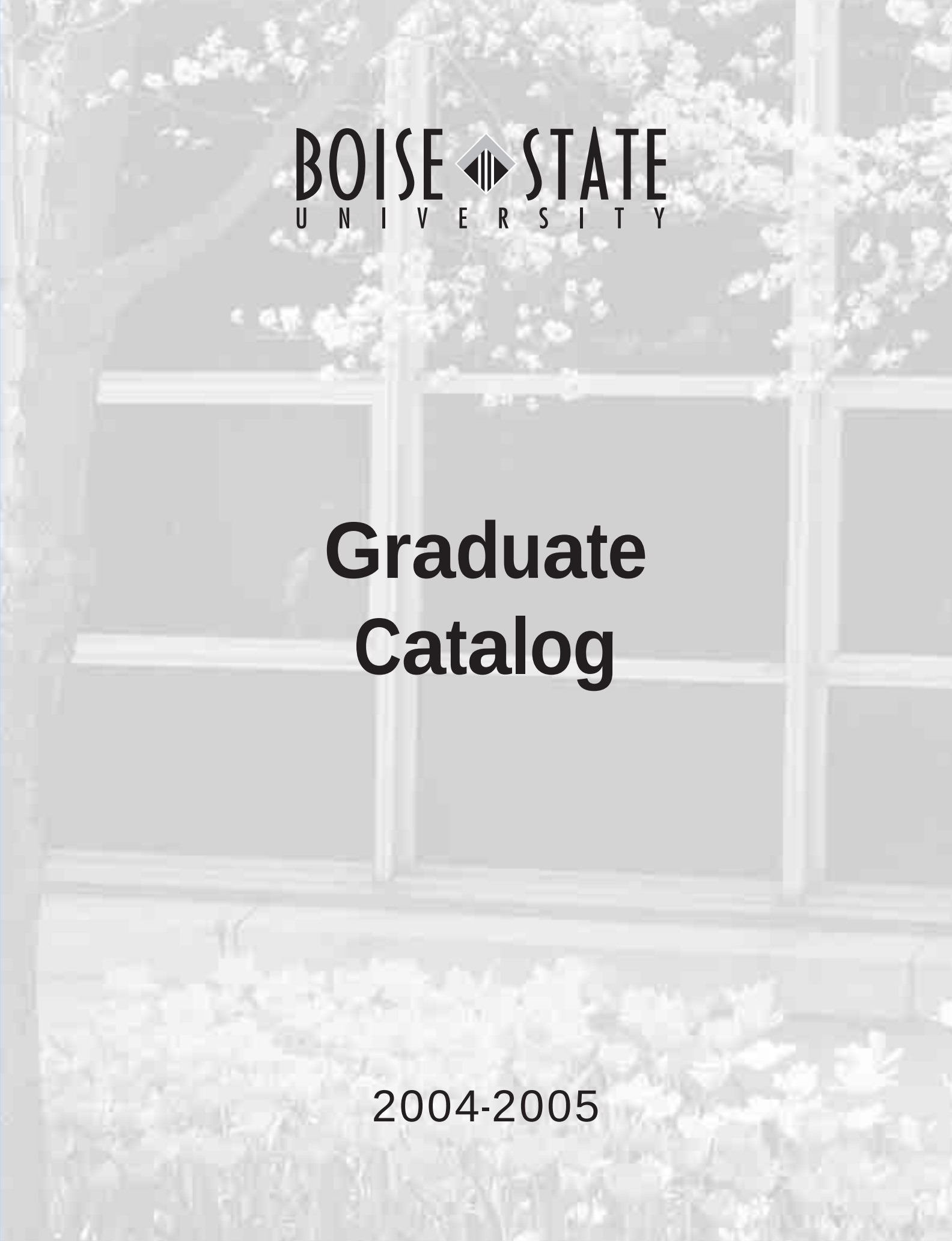
School Counseling
- ☐ Certificate in Addiction Studies

Technical Communication
- ☐ Certificate in Technical Communication

NONDEGREE-SEEKING GRADUATE

- ☐ General Graduate Study (Noneducation courses)
- ☐ General Graduate Study (Education courses)

Revised 8/2004



BOISE STATE UNIVERSITY

Graduate Catalog

2004-2005

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.

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Boise State University Graduate Catalog 2004-2005

Doctoral Programs

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Boise State University
Academic Calendar — 2004-2005

Summer Session 2004

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

March 29, Monday.....Registration for continuing students begins for summer/fall 2004 (by appointment).
April 1, Thursday .....Recommended last date to mail 2003-04 "Free Application for Federal Student Aid" (FAFSA) for consideration for financial aid for summer 2004.
May 13, Thursday.....Fee payment deadline for first 3-week and first 8-week sessions. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
May 17, Monday.....Classes begin for first 3-week and first 8-week sessions.
May 18, Tuesday .....Last day to drop a 3-week session class without a "W" appearing on the transcript and to receive a refund.
May 21, Friday.....Last day to drop a first 8-week session class without a "W" appearing on the transcript and to receive a refund.
May 24, Monday.....Last day to withdraw from first 3-week session classes.
June 3, Thursday .....Last day to submit the BSU summer financial aid application. The 2003-04 FAFSA must be completed by April 1.
June 3, Thursday .....Fee-payment deadline for 10-week, second 3-week, first 5-week, and second 8-week sessions. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
June 6, Sunday.....First 3-week session ends.
June 7, Monday.....Classes begin for 10-week, second 3-week, first 5-week, and second 8-week sessions.
June 8, Tuesday .....Last day to drop a second 3-week session class without a "W" appearing on the transcript and to receive a refund.
June 8, Tuesday .....Last day to withdraw from first 8-week session classes.
June 9, Wednesday .....Last day to drop a first 5-week session class without a "W" appearing on the transcript and to receive a refund.
June 10, Thursday .....Last day to file "Completion of Graduate Degree" or "Completion of Graduate Certificate" form for August graduation.
June 10, Thursday .....Last day to submit "Application for Admission to Candidacy" form to Graduate Admission and Degree Services for graduate degrees to be awarded in August.
June 11, Friday.....Last day to drop a second 8-week session class without a "W" appearing on the transcript and to receive a refund.
June 14, Monday.....Last day to withdraw from second 3-week session classes.
June 15, Tuesday .....Last day to drop a 10-week session class without a "W" appearing on the transcript and to receive a refund.
June 18, Friday.....Last day to withdraw from first 5-week session classes.
June 24, Thursday .....Fee-payment deadline for third 3-week session. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
June 27, Sunday.....Second 3-week session ends.
June 28, Monday .....Classes begin for third 3-week session.
June 28, Monday.....Last day to withdraw from second 8-week session classes.
June 28, Monday .....Last day for final oral dissertation, thesis, or project defense for August graduation.
June 30, Wednesday .....Last day to drop a third 3-week session class without a "W" appearing on the transcript and to receive a refund.
July 2, Friday .....Last day to withdraw from 10-week session classes.
July 5, Monday .....Independence Day Holiday (no classes - University offices closed).
July 6, Tuesday.....Last day to add practicum, internship, or directed research.
July 6, Tuesday.....Last day to withdraw from third 3-week session classes.
July 8, 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 11, Sunday .....First 5-week and first 8-week sessions end.
July 12, Monday .....Last day to submit final signed copies (2) of dissertation, thesis, or project to Graduate Dean's Office for August graduation.
July 12, Monday .....Classes begin for second 5-week session.
July 14, Wednesday.....Last day to drop a second 5-week session class without a "W" appearing on the transcript and to receive a refund.
July 15, Thursday .....Fee-payment deadline for fourth 3-week session. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
July 18, Sunday .....Third 3-week session ends.
July 19, Monday .....Classes begin for fourth 3-week session.
July 20, Tuesday.....Last day to drop a fourth 3-week session class without a "W" appearing on the transcript and to receive a refund.
July 20, Tuesday.....Last day to complete final oral defense of comprehensive exam for August graduation.
July 23, Friday .....Last day to withdraw from second 5-week session classes.
July 26, Monday .....Last day to withdraw from fourth 3-week session classes.
August 1, Sunday .....Second 8-week session ends.
August 8, Sunday .....Fourth 3-week session ends.
August 15, Sunday .....Ten-week and second 5-week sessions end.

Fall Semester 2004

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

February 15, Sunday.....Free Application for Federal Student Aid (FAFSA) priority filing deadline for entering freshmen and transfer students. Students who will begin enrollment at BSU during the Fall 2004 semester should transmit the FAFSA, including any required signature pages, by February 15, 2004. New and transfer students who meet this deadline will automatically be considered for most need-based scholarships and tuition waivers, and will receive priority consideration for certain grant, loan, and work-study programs.
February 15, Sunday.....Scholarship deadlines: Last day to have all admission materials received in the Admissions Office for new and transfer students who want to be considered for scholarships for the 2004-05 year. Last day for the BSU Supplemental Scholarship Application to be received in the Financial Aid Office to be considered for special 2004-05 merit and need-based scholarships. Last day for the Brown Scholarship application to be received in the Honors College. The Boise State Financial Aid website contains a listing of departments that require a separate scholarship application.
March 15, Monday.....Free Application for Federal Student Aid (FAFSA) priority filing deadline for continuing students. Deadline for submitting Supplemental Scholarship Application. Students attending BSU spring semester 2004 and who plan to continue attendance during the 2004-05 academic year should transmit the FAFSA or renewal FAFSA, including any required signature pages, by March 15, 2004. Students who meet this deadline will receive priority consideration for certain scholarship, grant, loan, and work-study programs.
March 29, Monday.....Registration for continuing students begins for summer/fall 2004 (by appointment).

June 1, Tuesday.....Priority deadline for international student application materials to be received for fall semester consideration.
June 28, Monday.....BroncoWeb registration only for fall 2004 new degree-seeking students begins. Registration online by appointment only.
July 14, Wednesday.....Last day for graduate, degree-seeking applicants for fall semester to have all admission materials received by Graduate Admission and Degree Services. Applications received after this date might not be processed in time to admit students to degree programs.
August 16, Monday .....Faculty orientation/meetings.
August 19, Thursday .....Fee-payment deadline for registered students. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
August 20, Friday .....Residence Halls open (Noon).
August 23, Monday .....Classes begin. Academic advising available throughout the semester.
August 25, Wednesday.....Last day to drop a first 4-week or first 5-week class without a "W" appearing on the transcript and to receive a refund.
August 27, Friday .....Weekend University classes begin.
August 27, Friday .....Last day for faculty initiated drops for nonattendance during the first week of the semester to be turned in to the Registrar's Office.
August 27, Friday .....Last day to file "Completion of Graduate Degree" or "Completion of Graduate Certificate" form for December graduation.
August 27, Friday .....Last day to submit "Application for Admission to Candidacy" form to Graduate Admission and Degree Services for graduate degrees to be awarded in December.
August 27, Friday .....Last day to drop a first 8-week class without a "W" appearing on the transcript and to receive a refund.
August 28, Saturday .....Instructor permission required to register or add classes.
August 31, Tuesday.....Last day to drop a first 10-week class without a "W" appearing on the transcript and to receive a refund.
September 1, Wednesday ....Last day to withdraw from first 4-week classes.
September 3, Friday.....Last day to register; add classes; add dissertation, thesis, or project credit; add directed research; or change from credit to audit or audit to credit. Pell Grant eligibility determined by number of credits registered on this date.
September 3, Friday.....Last day to drop a regular session class without a "W" appearing on the transcript and to receive a refund.
September 3, Friday.....Last day to waive student health insurance.
September 3, Friday.....Last day to withdraw from first 5-week classes.
September 6, Monday .....Labor Day Holiday (no classes - University offices closed).
September 14, Tuesday.....Last day to withdraw from first 8-week classes.
September 17, Friday.....First 4-week classes end.
September 20, Monday .....Second 4-week classes begin.
September 20, Monday .....Last day to withdraw from first 10-week classes.
September 22, Wednesday ..Last day to drop a second 4-week class without a "W" appearing on the transcript and to receive a refund.
September 24, Friday .....Last day to file application with department for final master's or doctoral written exam.
September 24, Friday.....First 5-week classes end.
September 27, Monday .....Second 5-week and second 10-week classes begin.
September 29, Wednesday ..Last day to drop a second 5-week class without a "W" appearing on the transcript and to receive a refund.
September 29, Wednesday ..Last day to withdraw from second 4-week classes.
October 4, Monday .....Last day to drop classes or completely withdraw.
October 4, Monday .....Last day to add practicum, internship, or readings and conference.
October 5, Tuesday .....Last day to drop a second 10-week class without a "W" appearing on the transcript and to receive a refund
October 8, Friday.....Last day to withdraw from second 5-week classes.
October 11, Monday.....Columbus Day (classes in session).
October 15, Friday.....First 8-week and second 4-week classes end.
October 16, Saturday.....Final day for written comprehensive exam for graduate degrees for December graduation.
October 18, Monday.....Third 4-week and second 8-week classes begin.
October 20, Wednesday.....Last day to drop a third 4-week class without a "W" appearing on the transcript and to receive a refund.
October 22, Friday.....Last day for final oral dissertation, thesis, or project defense for December graduation.
October 22, Friday.....Last day to drop a second 8-week class without a "W" appearing on the transcript and to receive a refund.
October 22, Friday.....Last day to withdraw from second 10-week classes.
October 27, Wednesday.....Last day to withdraw from third 4-week classes.
October 29, Friday.....Second 5-week and first 10-week classes end.
November 1, Monday.....Third 5-week classes begin.
November 3, Wednesday.....Last day to drop a third 5-week class without a "W" appearing on the transcript and to receive a refund.
November 8, Monday.....Last day to withdraw from second 8-week classes.
November 11, Thursday.....Veterans Day (classes in session).
November 12, Friday .....Last day to withdraw from third 5-week classes.
November 12, Friday .....Third 4-week classes end.
November 12, Friday.....Last day to submit final signed copies (2) of dissertation, thesis, or project to Graduate Dean's Office for December graduation.
November 15, Monday.....Fourth 4-week classes begin.
November 17, Wednesday...Last day to drop a fourth 4-week class without a "W" appearing on the transcript and to receive a refund.
November 24, Wednesday...Last day to withdraw from fourth 4-week classes.
November 24-28, Wed-Sun ..Thanksgiving Holiday (no classes - University offices closed November 25-28).
December 3, Friday.....Third 5-week and second 10-week classes end.
December 10, Friday.....Second 8-week and fourth 4-week classes end.
December 10, Friday.....Classroom instruction ends.
December 12, Sunday.....Weekend University classes end.
December 13-16, Mon-Thurs.....Final semester examinations (exam schedule listed in *Fall Schedule of Classes* and on BroncoWeb).
December 17, Friday.....Residence Halls close (Noon).
December 17, Friday.....Commencement.
December 22, Wednesday...Grade reports due to Registrar's Office by Noon.

Spring Semester 2005

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

October 15, Friday.....Priority deadline for international student application materials to be received for spring semester consideration.
October 25, Monday.....Registration for continuing students begins for spring semester (by appointment).
December 2, Thursday...Last day for graduate, degree-seeking applicants for spring semester to have all admission materials received by Graduate Admission and Degree Services. Applications received after this date might not be processed in time to admit students to degree programs.
January 3, Monday.....Faculty meetings.
January 6, Thursday.....Fee-payment deadline for registered students. Unpaid accounts will be assessed a $50 penalty. Students who do not plan to attend must cancel/drop by this date.
January 8, Saturday.....Residence Halls open (Noon).
January 10, Monday.....Classes begin. Academic advising available throughout the semester.
January 12, Wednesday .....Last day to drop a first 4-week or first 5-week class without a "W" appearing on the transcript and to receive a refund.
January 14, Friday.....Last day to file "Completion of Graduate Degree" or "Completion of Graduate Certificate" form for May graduation.
January 14, Friday.....Last day to submit "Application for Admission to Candidacy" form to Graduate Admission and Degree Services for graduate degrees to be awarded in May.
January 14, Friday.....Weekend University classes begin.
January 14, Friday.....Last day for faculty initiated drops for nonattendance during the first week of the semester to be turned in to the Registrar's Office.
January 14, Friday.....Last day to drop a first 8-week class without a "W" appearing on the transcript and to receive a refund.
January 15, Saturday.....Instructor permission required to register or add classes.
January 17, Monday.....Dr. Martin Luther King, Jr./Idaho Human Rights Day Holiday (no classes - University offices closed).
January 19, Wednesday .....Last day to drop a first 10-week class without a "W" appearing on the transcript and to receive a refund.
January 20, Thursday .....Last day to withdraw from first 4-week classes.
January 24, Monday.....Last day to register; add classes; add dissertation, thesis, or project credit; add independent study or add directed research; or change from credit to audit or audit to credit. Pell Grant eligibility determined by number of credits registered on this date.
January 24, Monday.....Last day to drop a regular session class without a "W" appearing on the transcript and to receive a refund.
January 24, Monday.....Last day to waive student health insurance.
January 24, Monday.....Last day to withdraw from first 5-week classes.
February 1, Tuesday .....Last day to withdraw from first 8-week classes.
February 4, Friday.....First 4-week classes end.
February 7, Monday.....Second 4-week classes begin.
February 7, Monday.....Last day to withdraw from first 10-week classes.
February 9, Wednesday .....Last day to drop a second 4-week class without a "W" appearing on the transcript and to receive a refund.
February 11, Friday.....Last day to file application with department for final master's or doctoral written exam.
February 11, Friday.....First 5-week classes end.
February 14, Monday.....Second 5-week and second 10-week classes begin.
February 16, Wednesday .....Last day to drop a second 5-week class without a "W" appearing on the transcript and to receive a refund.
February 16, Wednesday .....Last day to withdraw from second 4-week classes.
February 21, Monday.....President's Day Holiday (no classes - University offices closed).
February 22, Tuesday .....Last day to drop classes or completely withdraw.
February 22, Tuesday.....Last day to add practicum, internship, or readings and conference.
February 23, Wednesday .....Last day to drop a second 10-week class without a "W" appearing on the transcript and to receive a refund.
February 28, Monday.....Last day to withdraw from second 5-week classes.
March 4, Friday.....First 8-week and second 4-week classes end.
March 7, Monday.....Second 8-week and third 4-week classes begin.
March 9, Wednesday.....Last day to drop a third 4-week class without a "W" appearing on the transcript and to receive a refund.
March 11, Friday.....Last day to drop a second 8-week class without a "W" appearing on the transcript and to receive a refund.
March 14, Monday.....Last day to withdraw from second 10-week classes.
March 16, Wednesday.....Last day to withdraw from third 4-week classes.
March 18, Friday.....Second 5-week and first 10-week classes end.
March 19, Saturday.....Last day for written comprehensive exam for graduate degrees for May graduation.
March 21-27, Mon-Sun.....Spring Vacation.
March 28, Monday.....Third 5-week classes begin.
March 30, Wednesday.....Last day to drop a third 5-week class without a "W" appearing on the transcript and to receive a refund.
April 1, Friday.....Last day for final oral dissertation, thesis, or project defense for May graduation.
April 4, Monday.....Last day to withdraw from second 8-week classes.
April 8, Friday.....Last day to submit final signed copies (2) of dissertation, thesis, or project to Graduate Dean's Office for May graduation.
April 8, Friday.....Last day to withdraw from third 5-week classes.
April 8, Friday.....Third 4-week classes end.
April 11, Monday.....Fourth 4-week classes begin.
April 13, Wednesday .....Last day to drop a fourth 4-week class without a "W" appearing on the transcript and to receive a refund.
April 20, Wednesday .....Last day to withdraw from fourth 4-week classes.
April 29, Friday.....Second 10-week and third 5-week classes end.
May 6, Friday.....Second 8-week and fourth 4-week classes end.
May 6, Friday.....Classroom instruction ends.
May 8, Sunday.....Weekend University classes end.
May 9-12, Mon-Thurs.....Final semester examinations (exam schedule listed in *Spring Schedule of Classes* and on BroncoWeb).
May 13, Friday.....Residence Halls close (Noon).
May 14, Saturday.....Commencement.
May 17, Tuesday.....Grade reports due to Registrar's Office by Noon.

Graduate Degrees and Certificate Programs Offered at Boise State University

Department	Degree	Graduate Degree Program	Graduate Program Coordinator
		College of Arts and Sciences	
Art	M.A.	Master of Arts in Art Art Education Visual Art	Cheryl Shurtleff-Young, M.A.
	M.F.A.	Master of Fine Arts in Visual Arts	Cheryl Shurtleff-Young, M.A.
Biology	M.A.	Master of Arts in Biology	James Belthoff, Ph.D.
	M.S.	Master of Science in Biology	James Belthoff, Ph.D.
	M.S.	Master of Science in Raptor Biology	James Belthoff, Ph.D.
English	M.F.A.	Master of Fine Arts in Creative Writing	Janet Holmes, M.F.A.
	M.A.	Master of Arts in English English Education	Carol Martin, Ph.D.
	M.A.	Master of Arts in Technical Communication	Mike Markel, Ph.D.
	Certificate	Technical Communication	Mike Markel, Ph.D.
Geosciences	M.S.	Master of Science in Earth Science	David Wilkins, Ph.D.
	M.S.	Master of Science in Geology	James McNamara, Ph.D.
	Ph.D.	Doctor of Philosophy in Geophysics	Paul Michaels, Ph.D.
	M.S.	Master of Science in Geophysics	Paul Michaels, Ph.D.
	Certificate	Geospatial Information Analysis	David Wilkins, Ph.D.
Mathematics	M.S.	Master of Science in Mathematics Education	Sharon Walen, Ph.D.
Music	M.M.	Master of Music Music Education Performance Pedagogy	Jeanne M. Belfy, Ph.D.
Interdisciplinary Program	M.A.	Master of Arts in Interdisciplinary Studies	Daryl Jones, Ph.D.
	M.S.	Master of Science in Interdisciplinary Studies	Daryl Jones, Ph.D.
		College of Business and Economics	
Accountancy	M.S.	Master of Science in Accountancy Taxation	Kirk Smith, Ph.D.
Graduate Studies	M.B.A.	Master of Business Administration	Kirk Smith, Ph.D.
Networking, Operations, and Information Systems	M.S.	Master of Science in Management Information Systems	Kirk Smith, Ph.D.
		College of Education	
Bilingual Education	M.A.	Master of Arts in Education Curriculum and Instruction Bilingual/ESL	Claudia Peralta-Nash, Ed.D.
Counselor Education	M.A.	Master of Arts in School Counseling	Bobbie Birdsall, Ph.D.
	Certificate	Addiction Studies	Ken Coll, Ph.D.
Curriculum, Instruction & Foundational Studies	Ed.D.	Doctor of Education in Curriculum and Instruction	Michael Heikkinen, Ph.D.
	M.A.	Master of Arts in Education Curriculum and Instruction Physical Education Pedagogy Secondary Certification	Ted Singletary, Ph.D. Kenneth Bell, Ph.D. Ted Singletary, Ph.D.
Educational Technology	M.S.	Master of Science in Education Educational Technology	Carolyn Thorsen, Ph.D.
	Certificate	On-Line Teaching	Carolyn Thorsen, Ph.D.
	Certificate	School Technology Coordination	Carolyn Thorsen, Ph.D.
	Certificate	Technology Integration Specialist	Carolyn Thorsen, Ph.D.

— continued—

Graduate Degrees Offered

Department	Degree	Graduate Degree Program	Graduate Program Coordinator
Early Childhood Studies	M.A.	Master of Arts in Education, Early Childhood Studies	Judy French, Ph.D.
Literacy	M.A.	Master of Arts in Education, Reading	Stan Steiner, PhD.
Special Education	M.A.	Master of Arts in Education, Special Education	Melinda Lindsey, Ph.D.
Kinesiology	M.S.	Master of Science in Exercise and Sport Studies Behavioral Studies Biophysical Studies Socio-historical Studies	Linda Petlichkoff, Ph.D.
	M.P.E.	Master of Physical Education in Athletic Administration	Linda Petlichkoff, Ph.D.
Additional Education Programs	 M.A. M.S. M.A. M.S. M.M.	College of Arts & Sciences Master of Arts in Art Education Master of Science in Earth Science Master of Arts in English Education Master of Science in Mathematics Education Master of Music in Music Education	 Cheryl Shurtleff-Young, M.F.A. David Wilkins, Ph.D. Bruce Robbins, Ph.D. Sharon Walen, Ph.D. Jeanne M. Belfy, Ph.D.
	 M.S.W. M.A.	College of Social Sciences and Public Affairs Master of Social Work Master of Arts in History	 William Whitaker, Ph.D. Nicholas Miller, Ph.D.
		College of Engineering	
Civil Engineering	M.Engr. M.S.	Master of Engineering in Civil Engineering Master of Science in Civil Engineering	Molly Gribb, Ph.D.
Computer Science	M.S.	Master of Science in Computer Science	Alex Feldman, Ph.D.
Electrical and Computer Engineering	M.Engr. M.S. M.Engr. M.S.	Master of Engineering in Computer Engineering Master of Science in Computer Engineering Master of Engineering in Electrical Engineering Master of Science in Electrical Engineering	Jacob Baker, Ph.D.
Instructional & Performance Technology	M.S.	Master of Science in Instructional & Performance Technology	David Cox, Ph.D.
Materials Science	M.Engr. M.S.	Master of Engineering in Materials Science & Engineering Master of Science in Materials Science & Engineering	Amy Moll, Ph.D.
Mechanical Engineering	M.Engr. M.S.	Master of Engineering in Mechanical Engineering Master of Science in Mechanical Engineering	John Gardner, Ph.D.
		College of Health Sciences	
Health Sciences	M.H.S.	Master of Health Science Environmental Health General Research Health Policy Health Promotion Health Services Leadership	Sarah Toevs, Ph.D.
	Certificate	Addiction Studies	Sarah Toevs, Ph.D.
	Certificate	Health Services Leadership	Sarah Toevs, Ph.D.
		College of Social Sciences and Public Affairs	
Communication	M.A.	Master of Arts in Communication	Rick Moore, Ph.D.
Criminal Justice Administration	M.A.	Master of Arts in Criminal Justice Administration	Andrew Giacomozzi, Ph.D.
History	M.A.	Master of Arts in History Applied Education Research	Nicholas Miller, Ph.D.
Public Policy and Administration	M.P.A.	Master of Public Administration General Public Administration Environmental and Natural Resources Administration State and Local Government Policy and Administration	Les Alm, Ph.D.
Social Work	M.S.W.	Master of Social Work	William Whitaker, Ph.D.

General Information

The graduate catalog describes the graduate programs offered by Boise State University and the policies, procedures, and requirements that govern those programs. Changes made to this catalog since publication will be reflected in the online version at www.boisestate.edu/gradcoll. Other pertinent university publications are the *Boise State University Schedule of Classes*, the *Boise State University Student Handbook*, and the *Boise State University Policy Manual*. All of these publications are available online at www.boisestate.edu. Prospective students are also encouraged to contact the graduate program coordinator of the program of interest for additional information.

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Associate Dean, Shelton Woods, 208 426-1368

Division of Extended Studies
Dean, Michael Stockstill, 208 426-3706

Larry Selland College of Applied Technology
Dean, Larry Barnhardt, 208 426-2238
Associate Dean, Stan Brings, 208 426-1118

Graduate College

Office of the Graduate Dean, 208 426-3647/4203
Math/Geosciences Building, Room 140
John R. (Jack) Pelton, Dean
Naomi Fields, Assistant to the Dean
Arlene Kaufman, Administrative Assistant
Anne Herndon, Administrative Assistant

Graduate Admission and Degree Services
208 426-3903/4204/1074
Math/Geosciences Building, Room 141
Jim Allen, Graduate Degree Services Coordinator
Linda Platt, Office Services Supervisor
Shari Kaiser, Technical Records Specialist
Suzetta Gibson, Office Specialist

Campus Contact Information

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
1865 Campus Lane

Boise State University 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

GRE, GMAT Testing Center, 208 321-7422
Pro-Metric, 5123 N. Glenwood, Garden City, ID 83714

GRE, GMAT Test Prep Classes, 208 426-3492
Extended Studies, 1015 Grant Avenue

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
Chaffee Hall

Student Special Services, 208 426-1418
Administration Building, Room 210

Student Union Information Desk, 208 426-4636
1700 University Drive

An Introduction to Boise State University

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 Boise State University campus. In addition, a variety of national sporting events are held at The Pavilion.

Mission of the University

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

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

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

At the same time, the university places continuing emphasis on 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.

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History of the University

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 offers 42 master's programs, 7 graduate certificates, and two doctoral programs, the Doctor of Education in Curriculum and Instruction (1994) and the Doctor of Philosophy in Geophysics (2000). Each semester more than 2,200 students enroll through the Graduate College.

During its 72-year history, Boise State University has operated under the leadership of six presidents:

- Bishop Middleton Barnwell (1932-34)
- Eugene B. Chaffee (1934-67)
- John B. Barnes (1967-77)
- John H. Keiser (1978-1991)
- Charles P. Ruch (1993-2003)
- Robert W. Kustra (2003-Present)

Accreditation

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

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

Students

Each semester, Boise State University enrolls more than 18,000 students in its academic and applied technology programs. Students come to Boise State University from every county in Idaho, from nearly every state in the nation, and from numerous foreign countries. The university's urban setting both attracts and complements this diverse student body, which includes many nontraditional students as well as traditional students enrolling directly from high school.

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

Faculty

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

In addition to helping students learn, Boise State 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.

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 680 individuals who make up the Graduate Faculty, 97% possess a terminal degree.

The Graduate Program Coordinator for a graduate program is nominated by the academic unit and approved by the Graduate Council. The graduate program coordinator must be a member of the graduate faculty and an official faculty member of the academic unit. The duties of the graduate program coordinator are jointly defined by the academic unit and the Graduate College.

A Tour of the Campus

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

On campus, the **Administration Building** contains the offices of several student services, including enrollment services, financial aid, student housing, and the registrar. **The Counseling Center** is located in the **Education Building**, while the **Student Health Center**, the **Gateway Center** for academic support and student orientation are located across University Drive from the main campus. The **Boise State University Career Center** and **Alumni Office** are located across University Drive at the east end of the main campus.

The **Business Building** features computer labs and three electronic classrooms furnished with the latest in teleconferencing equipment. In addition, the **Micron Engineering Center**, **Civil Engineering**, and **Engineering Technology Buildings** contain modern classrooms and laboratories—many equipped with computers—

for use in engineering, construction management, and other technical programs. Both the **Education Building** and the **Liberal Arts Building** offer comfortable, well-equipped classrooms and computer labs, as do the **Math/Geosciences Building** and the **Public Affairs/Art West Building**. 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 the **Albertsons Library** as well as the **Centennial Amphitheatre**—an outdoor venue for lectures, concerts, and plays. The **Morrison Center for the Performing Arts** houses the music department, the theatre arts department, a 2,000-seat performance hall, a 200-seat recital hall, and a 200-seat theater. The **Student Recreation Center** houses informal recreation, intramural sports, outdoor programs, fitness opportunities, a wellness center, as well as athletic training facilities.

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

Boise State students also enjoy a contemporary **Student Union**, which provides facilities for social, recreational, and cultural activities. In addition to a quick-copy center and three dining areas, the Student Union contains a game room, several lounges, the **Outdoor Rental Center**, the **Boise State University Bookstore**, and the **Bronco Shop**. While at the Student Union, you can stop by the **Information Desk** to pick up tickets for campus programs and community events, or visit the offices of more than 140 recognized student organizations.

The Pavilion is 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:

- 518,000 monograph volumes
- 82,700 bound periodicals
- 5,707 current periodicals, newspapers, and other serials
- 102,600 maps
- 96,500 government publications
- 1,457,000 microform pieces

http://library.boisestate.edu is the URL for the Albertsons Library website through which you can gain access to the online catalog and a host of other resources, including full text articles from 8,700 journals.

You may use the Library's computerized catalog to quickly identify material which the Library owns. The catalog is accessible from any computer connected to the world wide web. In addition to the public use computers in the Library, there are 70 data outlets for lap top computers equipped with network interfaced cards as well as provisions for lap tops equipped with wireless networking cards.

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

The **Reference Area** is the information hub of the Library where staff are available to provide assistance and guidance in using Library Resources. These resources include an extensive collection of periodical indexes in print and electronic formats, handbooks, encyclopedias, dictionaries, and other types of reference materials. The reference area also provides basic and advanced bibliographic search materials and instruction in their use.

The print periodical and newspaper collections are augmented by web delivered electronic periodical indexes and databases that provide access to full-text periodicals.

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 a growing collection of books and materials about the literature, anthropology, and history of the American West.

Computer Resources

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

Boise State provides e-mail accounts for all students. After your application for admission has been processed, your e-mail account information and Registration Certificate will be mailed to you. 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, women's volleyball, men's and women's basketball, men's and women's cross country and track and field, women's soccer, men's and women's golf, and men's and women's tennis. The university competes in the PAC-10 in wrestling and the Western Gymnastics Conference in women's gymnastics.

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

The *Equity in Athletics Disclosure Report* for Boise State University is available at the Athletic Department, the reserve book room in the library, and the Associated Students of Boise State University 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.

Campus Recreation

Operating under the Division of Student Affairs, The REC has definitely proven to be an exceptional addition to the Boise State campus. This 86,000 sq. ft., state-of-the-art fitness and recreation facility provides university students, faculty, staff and alumni with a modern and convenient way to participate in physical activity. Whether you want personalized training, competitive sports, club activities, group exercise, or outdoor recreation, you will find a huge variety of opportunities to climb, dunk, splash, spin, and spike life's stresses away.

Informal recreation opportunities include cardio equipment, running track, 3-court gymnasium, 4 racquetball courts, pool, strength training equipment and free weights.

The **Fitness Program** offers group exercise classes, aquatics, personal training, fitness assessments, workshops and monthly incentives to challenge your skills.

Club and Intramural sports include basketball, badminton, flag football, softball, soccer, volleyball, lacrosse, ice hockey, and tennis. You may checkout equipment and make use of the basketball, badminton, racquetball, and volleyball courts.

The **Outdoor Program** offers rock-climbing, outdoor education, four-season equipment rental, trip planning assistance, adventure outings, and an outdoor reference library.

Other services and amenities at The REC include Kid Fit (babysitting), sauna, massage, equipment checkout, and nutritional counseling.

Remember . . . activity is good for the mind, body, and soul. For more information, come visit the facility at 1515 University Drive, call at 208-426-5641, or check the website at www.boisestate.edu/recreation.

General Course Information

Course Terminology

A *grade-point course* is any course in which the awarded grade is one of the traditional grades (A, B, C, D, or F) and a *pass-fail course* is any course in which the awarded grade is P (pass) or F (fail). A *graduate course* is any course offered with a course number between 500 and 699 inclusive; successful completion of a graduate course earns graduate credit.

A *university-wide graduate course* represents a certain type of graduate activity with the same course number and title across all academic units (see *University-Wide Graduate Courses* in this section). University-wide graduate courses 591 Project, 593 Thesis, 600 Assessment, and 693 Dissertation represent work done on graduate culminating activities and are therefore known as *culminating activity courses*; some graduate programs have culminating activity courses that are numbered differently than these university-wide courses.

Graduate courses are said to be *cross-listed* if they are offered by multiple academic units and have identical titles, credit codes, and content descriptions in each unit (such as COUN 546 and MHLTHSCI 565). Courses offered by an academic unit at both the 400-level and 500-level with identical titles, credit codes, and content descriptions (such as GEOPH 420 and GEOPH 575) are said to be *dual-listed courses*.

A *G-course* is an upper division undergraduate course marked with a G-suffix (such as ENGL 401G); successful completion of a G-course earns graduate credit if the student meets certain requirements (see *G-Courses* and *Dual-Listed Courses* in the *Graduate Academic Regulations* section).

Course Numbering System

Each course at Boise State University has a course description that consists of a prefix, course number, title, credit code, semester code, additional information, content description, and list of requisites. These elements of the course description are described below.

Prefix. The prefix is an upper-case letter code that indicates the academic unit offering the course (e.g., ENGL indicates the Department of English). A complete list of prefixes is given in the *Boise State University Undergraduate Catalog*.

Course Number. The course number is a three-digit integer that indicates the academic level of the course according to the following hierarchy:

000-099	non-academic credit courses
100-299	lower-division undergraduate courses
300-499	upper-division undergraduate courses
500-699	graduate courses

Title. The title indicates the general content of the course.

Credit Code. The credit code is a sequence of three integers separated by hyphens with the entire sequence enclosed in parentheses. The first number is the number of required classroom hours each week, the second number is the number of required special hours per week (laboratory, studio, field), and the third number is the number of academic semester credits earned after successfully completing the course. For example, (3-2-4) indicates 3 required classroom hours per week, 2 required special hours per week, and 4 credits earned after successful completion. The symbol V in a credit code may be used in place of an integer to indicate variable hours and credit.

Semester Code. The semester code indicates the semester(s) and/or term in which the course is offered and is expressed using letter codes F for fall semester, S for spring semester, and SU for summer term, with the full sequence of letter codes enclosed in parentheses. A comma or slash between letter codes is used to interpret combinations as illustrated in the following examples:

(F)	fall semester only
(S)	spring semester only
(F,S)	fall and spring semesters
(S,SU)	spring semester and summer term
(F/S)	fall semester or spring semester or fall and spring semesters

If the semester code is not indicated, then the course is offered during the fall and spring semesters and summer term (although there may be some exceptions).

Additional Information. Additional information associated with the scheduling of the course such as a notice of alternate year offering may be given in parentheses after the semester code.

Content Description. The content description is a concise summary of the concepts, theory, and methods addressed by the course, plus any special information not covered elsewhere in the course description.

List of Requisites. The list of requisites specifies any prerequisites and/or corequisites using the following abbreviations:

PREREQ:	prerequisite (condition to be met before enrollment)
COREQ:	corequisite (condition met before or during enrollment)
PERM/INST:	permission of instructor required to enroll
PERM/CHAIR:	permission of department chair required to enroll

The most common prerequisite is a specific course that must be successfully completed prior to enrollment. The most common corequisite is a laboratory course that must be taken during the same semester or term as a related science course.

University-Wide Graduate Courses

580-589 SELECTED TOPICS (Variable Credit)
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 (Variable Credit)
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 employment experience related to the discipline. The graduate intern already has an undergraduate degree and is expected to perform with a higher level of responsibility, decision-making authority, and accomplishment.

591 PROJECT (Variable Credit)
Execution of a substantial exercise that demonstrates the ability to successfully and independently carry out a professional activity similar to what is encountered in the professional workplace; archival of the results of the project is required according to standards approved by the Graduate College. Graded pass/fail (P/F) only.

592 COLLOQUIUM (Variable Credit)
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 (Variable Credit)
Independent research or creative activity at the master's level resulting in a thesis that must be defended at a final oral examination and archived in the university library. The thesis must be written in clear and effective English and presented in a format that conforms to the standards of the Graduate College. Graded pass/fail (P/F) only.

594 CONFERENCE OR WORKSHOP (Variable Credit)
Intensive daily instruction by a recognized expert in a specialized topic over a period of time considerably shorter than a semester. Workshop credits may not transfer.

595 READINGS AND CONFERENCE (Variable Credit)
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 INDEPENDENT STUDY (Variable Credit)
Advanced study of a specialized topic; design and completion of a project may be included in the study. The student works with a high degree of independence to meet well-defined goals under the supervision of a member of the graduate faculty. Requires submission of a completed Application for Independent Study prior to the deadline specified in the academic calendar.

597 SPECIAL TOPICS [Required Modifier] (Variable Credit)
Instruction on a topic that is not included in the catalog of regular graduate courses; the topic is indicated by the required modifier. Descriptions for these courses are given in the Schedule of Classes published each semester.

598 SEMINAR (Variable Credit)
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.

600 ASSESSMENT (Optional Modifier) (Variable Credit)
Examination or other assessment required by a graduate program. The optional modifier is used to indicate the type of assessment and may be chosen from three possibilities: Preliminary Examination, Comprehensive Examination, or Capstone Course.

693 DISSERTATION (Variable Credit)
Independent research at the doctoral level resulting in a dissertation that must be defended at a final oral examination and archived in the university library and with UMI. The dissertation must be written in clear and effective English and presented in a format that conforms to the standards of the Graduate College. Graded pass/fail (P/F) only.

696 DIRECTED RESEARCH (Variable Credit)
Research conducted by a graduate student under the supervision of a member of the graduate faculty. Requires the clear statement of a hypothesis or proposition, a review of the relevant literature, analysis and synthesis of data or scholarly evidence, and the inference of conclusions. The results must be stated in a report written in clear and effective English. Requires submission of an Application for Directed Research prior to the deadline specified in the academic calendar.

697 SPECIAL TOPICS [Required Modifier] (Variable Credit)
Instruction on a topic that is not included in the catalog of regular graduate courses; the topic is indicated by the required modifier. Descriptions for these courses are given in the Schedule of Classes published each semester.

University Policies and Services

Your Rights and Responsibilities

Boise State challenges its students to reach their highest levels of performance, encourages them to excel in academics and sports, and invites them to participate in the many cultural and social activities available at the university. At the same time, Boise State expects students to conduct themselves in a manner compatible with the university's function as an institution of higher learning. Therefore, we have published this catalog and the *Boise State University Student Handbook* to acquaint you with your rights and responsibilities as a student. In the *Boise State University Student Handbook*, 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 *Boise State University Student Handbook* at http://www.boisestate.edu/stuaff/handbook/index.htm. **It is the responsibility of each student to become familiar with the *Boise State University Student Handbook* and the policies and procedures that affect them as a graduate student enrolled at Boise State**.

Student Records

Graduate Admission and Degree Services 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, Boise State University will provide them in a timely and efficient manner.

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

Transcript Records

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

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

Confidentiality and Privacy

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

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

- your local address
- your e-mail address
- your local telephone number
- your major field of study
- the dates you attended Boise State
- 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 Boise State and the date on which you received it
- the Dean's list and other honors released to the newspapers

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 BroncoWeb Help Center, Administration Building, Room 110.

In discharging their official duties, Boise State employees may read, review, photocopy, and distribute to appropriate persons

within the university any information contained in your student record. However, before distributing confidential information outside the university—even to members of your family—Boise State faculty and staff must first secure your written permission to do so.

Name Changes

Currently enrolled students should promptly report a change of name to the BroncoWeb Help Center, 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. 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. 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 and documentation requirements may differ.

Address Changes

Whenever Boise State University policies or procedures call for a university office to send written notification to a student, that obligation is fulfilled when that office mails the notification to the student's last address on record. Former students may update their address in person, by telephone, or by sending in a change-of-address card from the post office to the BroncoWeb Help Center, Administration Building, Room 110. Currently enrolled students must update address information via BroncoWeb (http://www.boisestate.edu and select BroncoWeb).

Verification of Your Enrollment Status

Every day, Boise State University 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, Boise State 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
6-8	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. Cheating and plagiarism are not tolerated in any form. 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.

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:

- *Boise State University Policy Manual*
- *Boise State University Student Handbook*

Administrative Withdrawal from Boise State University

An administrative withdrawal is the process by which Boise State University formally withdraws a student from the university, usually without the student's consent or cooperation. In performing its function as an institution of higher learning, Boise State 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:

- failure to meet academic performance requirements
- 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 *Boise State University Student Handbook* and the *Boise State University Policy Manual*. Contact the Dean of Student Services, Administration Building, Room 114, 208 426-1583.

If you have questions about these policies, please contact:

Office of the Registrar
Administration Building, Room 102
Telephone 208 426-4249

Graduate Admission Regulations

Admission Requirements

Any applicant who seeks admission to a graduate certificate or degree program is said to be applying as a *graduate degree-seeking student*. All other applicants are said to be applying as *graduate nondegree-seeking students* and may be admitted to the Graduate College only.

Minimum Admission Requirements of the Graduate College. All applicants must hold at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the Registrar. If an applicant is applying as a graduate degree-seeking student, his or her undergraduate academic record must be of high enough quality to satisfy at least one of the following grade point average (GPA) requirements referred to a 4-point maximum scale:

(1) a GPA of 3.0 computed for all undergraduate credits;

(2) a GPA of 3.0 computed for the last half of the undergraduate credits.

Finally, if the applicant is applying as a graduate degree-seeking student and was a graduate degree-seeking student elsewhere but did not complete the program, the applicant must demonstrate that he or she departed that program in good academic standing.

Admission Requirements for a Graduate Certificate or Degree Program. Achievement of the minimum admission requirements of the Graduate College does not guarantee admission to a graduate program. Furthermore, a student who is admitted to a graduate program is not guaranteed admission to any other graduate program at any time in the future. Admission to a graduate program is competitive and qualified applicants may be denied admission depending on a wide variety of programmatic variables. To ensure the best possible opportunity for admission, each applicant is strongly encouraged to review the specific admission requirements and application procedures given in this catalog for the program of interest. Applicants are cautioned that review of an application cannot begin until all application materials are received, including those that are specific to a particular program.

Admission Status for Degree-Seeking Students

An applicant who applies as a graduate degree-seeking student with the required baccalaureate degree will be admitted initially to the Graduate College but not to the graduate program. The academic unit responsible for the program takes the application into consideration using its normal process and the student is said to be in PDR admission status (PDR indicates pending department review). A student in PDR status may enroll in courses for which he or she is eligible but is not permitted to work toward a graduate certificate or degree and is not eligible for federal financial aid. If the student completes courses while in PDR status and is later admitted to a graduate program, the responsible academic unit has the authority to decide which courses completed during PDR status can be applied to the credit requirements of the program. The academic unit also has the authority to define a maximum number of applicable credits of this type for the program but the maximum cannot exceed one third of the total credit requirement.

The responsible academic unit develops an admission recommendation and forwards it to the dean of the Graduate College who makes the final admission decision and notifies the student and the academic unit. If the student is admitted to a graduate program, his or her admission status changes from PDR to either regular or provisional status and the student becomes eligible for financial aid. Regular status indicates admission of the student to full graduate standing in a program. Provisional status establishes conditions such as a probationary period and/or other specific stipulations that must be satisfied by the student within a reasonable time. If the academic unit and the Graduate College jointly determine that the student has been successful in removing the conditions of provisional status, then the student is promoted to regular status by the dean of the Graduate College. If promotion to regular status is denied, then the student is administratively withdrawn from the graduate program by the dean of the Graduate College.

Admission Status for Nondegree-Seeking Students

A student admitted to the Graduate College as a graduate nondegree-seeking student may take courses of interest for which he or she is eligible but may not work toward a graduate certificate or degree and is not eligible for federal financial aid. If the student completes courses while in graduate nondegree-seeking status and later applies and is admitted to a graduate program, the responsible academic unit has the authority to decide which courses completed in graduate nondegree-seeking status can be applied to the credit requirements of the program. The academic unit also has the authority to define a maximum number of applicable credits of this type for the program but the maximum cannot exceed one third of the total credit requirement.

Application Deadlines for Degree-Seeking Students

The academic unit responsible for a graduate program may set one or more standard application deadlines appropriate for management of the program. Prospective students who wish to apply as graduate degree-seeking students are therefore strongly encouraged to consult the description of the program of interest in this catalog and to contact the graduate program coordinator with questions regarding application deadlines. If the program is not specific about its application deadlines, then the Graduate College strongly encourages prospective students to submit all application materials seven to nine months in advance of the anticipated starting semester or term. If the

Table 2.
How to Apply for Admission to the Graduate College at Boise State University

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

New Degree-Seeking Graduate Applicants
- *Graduate Admission Application.*
- One-time, nonrefundable application fee. Current fee available at http://www.boisestate.edu or call 208-426-3903.
- Official* transcripts from all postsecondary institutions (excluding Boise State) 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 Boise State graduate student who has not attended for one semester or more (not including summer), you must reapply for admission. Submit the following:
- *Graduate Admission Application.*
- One-time, nonrefundable application fee, if not previously paid. Current fee available at http://www.boisestate.edu or call 208-426-3903.

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

Nondegree-Seeking Applicants
- *Graduate Admission Application.*
- One-time, nonrefundable application fee, if not previously paid. Current fee available at http://www.boisestate.edu or call 208-426-3903.
- Official* transcript from institution (excluding Boise State) 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 application fee. Current fee available at http://www.boisestate.edu or call 208-426-3903.
- 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 Boise State University, Graduate Admission and Degree Services.
** If written in a language other than English, these documents must be accompanied by an English translation.

program states that it accepts applications at any time, then the application deadlines are those of the Graduate College:

Fall Semester 2004:	July 14, 2004
Spring Semester 2005:	December 2, 2004
Summer Sessions 2005:	One week before classes begin

Applicants who miss the application deadline appropriate to the program of interest will likely remain in PDR status beyond the anticipated starting semester or term and may not have an opportunity to register for courses of interest during the priority registration period.

Application Deadlines for Nondegree-Seeking Students

Applications from graduate nondegree-seeking students are accepted any time but prospective students are advised to submit all application materials well in advance of the start of the desired semester or summer session.

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 Graduate Admission and Degree Services, along with the nonrefundable application fee. Current application fee is available online at http://www.boisestate.edu/gradcoll or call 208-426-3903.

   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 (excluding Boise State) you have attended beyond high school. Instruct the institutions to send the transcripts directly to Graduate Admission and Degree Services, Room 141, Math/Geosciences Building, 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 Graduate Admission and Degree Services. For information about specific program requirements, see the program descriptions in this catalog.

4. Submit all required letters of recommendation and other materials to 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 to the program. 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 Graduate Admission and Degree Services, along with the nonrefundable application fee. Current application fee is available online at http://www.boisestate.edu/gradcoll or call 208-426-3903.

   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 (excluding BSU) that granted your bachelor's degree or higher degree. Instruct the institution to send the transcript directly to:

   Graduate Admission and Degree Services
   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 from around the world. The requirements described below apply to applicants in the United States with a visa or plan to come into the Unites Stated with a student visa.

You may apply for admission as a graduate student if you have earned—from an accredited institution—the equivalent of a U.S. four-year bachelor's degree or a higher degree, even if you plan to enroll in an undergraduate program.

To apply for admission to Boise State, 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 nonrefundable application fee. Current application fee is available online at http://www.boisestate.edu/gradcoll or call 208-426-3903.

2. Request official transcripts and proof of 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 Boise State University International Student 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.

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 Boise State is 4018.) For applicants to graduate degree programs, Boise State requires a minimum TOEFL score of 550 paper-based/213 computer-based testing. The College of Business, College of Engineering (excluding the M.S. in Instructional & Performance Technology), and the Department of Educational Technology require a minimum TOEFL score of 587/240 for admission to their graduate programs.

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 Admission and Degree Services
   Math/Geosciences Building, Room 141
   Boise State University
   Boise, ID 83725-1110

   (The institution code number for Boise State 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 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 purchase the mandatory health insurance. If you are enrolled full-time, your student fees cover the cost of participating in Boise State's health insurance plan.

NOTE: Additional information for international students is located in the sections on Financial Aid and Extended Studies.

Administrative Handling of Admission Documents

The Graduate Admission and Degree services office coordinates graduate admission processes and can provide additional information and answer questions. All documents received by Boise State University in conjunction with an application for admission become the property of the university. These documents will be duplicated only for use in admission decisions and student advising at the university. Moreover, the original documents will neither be returned to the applicant nor forwarded to any individual unaffiliated with Boise State University or forwarded to any other agency, organization, college, or university.

If you have questions about these policies:

Graduate Admission and Degree Services
Mathematics/Geosciences Building, Room 141
208 426-3903 or 426-4204
FAX 208 426-2789
http://www.boisestate.edu/gradcoll
email: gradcoll@boisestate.edu

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

Graduate Academic Regulations

Overview

The general academic regulations of the university that apply to graduate certificate and degree programs are developed by the Graduate College. Under this general regulatory umbrella, each program is locally administered by an academic unit assigned the task by the university. The academic unit may be a department, a college, or a specially appointed unit consisting of graduate faculty from multiple departments or colleges. Although an academic unit may develop local regulations for a specific program under its control, the local regulations must be consistent with the general regulations and are therefore subject to review and approval by the Graduate Council. It is the responsibility of the graduate faculty and each graduate student to become thoroughly familiar with the regulations that govern the graduate program in which they participate.

Terminology

The annual academic cycle at Boise State University consists of the fall semester, spring semester, and summer session. Critical dates associated with the annual academic cycle are specified on the *academic calendar*. Consecutive fall and spring semesters constitute an *academic year*. Unless otherwise indicated, the term *credit* refers to academic semester credit. A graduate student is considered to be engaged in *full-time graduate study* by the Graduate College in a given semester or session if the student is enrolled in at least 9 graduate credits. (Note that 8 or more credits are considered a "full schedule" for fee purposes.) Credit is said to be *applicable credit* if it is eligible for application to the credit requirements of a graduate certificate or degree program.

Simultaneous Enrollment in Multiple Programs

A student at Boise State University may be enrolled in only one graduate program at a time. The only exceptions are a student may be enrolled simultaneously in (1) a graduate degree program and a graduate certificate program or (2) two graduate certificate programs. Both exceptions are subject to further conditions (see the *Regulations for Graduate Certificate Programs* section).

Guidance of Graduate Students

A graduate student must come under the guidance of either a supervisory committee or an advisor soon after admission to a graduate program. A supervisory committee is required for any master's student engaged in thesis activity and for any doctoral student. Proper guidance of graduate students is of primary importance and a major responsibility of the graduate program coordinators and the graduate faculty.

Supervisory Committee. A *supervisory committee* is composed of members of the graduate faculty who are appointed by the Graduate College and charged with the guidance of a student in a specific graduate program. The committee consists of a *major advisor* who serves as chair plus at least two but no more than four additional members. The major advisor is the primary mentor for the student and must hold full rank in the graduate faculty. A majority of the committee membership must be graduate faculty of full or associate rank in the academic unit responsible for the program.

Appointment of a supervisory committee is initiated by the academic unit by submitting a request for appointment to the dean of the Graduate College. The request must include a recommended committee membership based on a reasonable match between student and faculty academic interests. The graduate dean can either appoint the recommended committee or solicit an alternative recommendation from the unit. Once the graduate dean is satisfied with the recommended committee, he or she formally appoints the committee and provides appropriate notifications. A change in the membership of the supervisory committee can be made after initial appointment but only according to policies and procedures developed by the academic unit and only with the approval of the Graduate College.

Advisor. A graduate student may come under the guidance of a single *advisor* if the student is not otherwise required to be under the guidance of a supervisory committee. An advisor is a full member of the graduate faculty and is appointed by the academic unit responsible for the graduate program. It is permissible for the graduate program coordinator to be appointed advisor for all students enrolled in the graduate program. It is also permissible for an advisor to guide a master's student (but not a doctoral student) through all graduate activities except for a culminating activity that is to be directed by a supervisory committee appointed as described above.

Academic Performance

Every student who is admitted to a graduate program (degree or certificate) must meet all of the academic performance requirements listed in this section. In order to conform with previous policies of the Graduate College on academic performance, the semester GPA requirement is effective beginning with the fall 2003 semester and the determination of academic notice disregards earlier semesters and summer sessions.

Semester GPA Requirement. A student who is admitted to a graduate program is required to achieve a semester grade point average (semester GPA) of 3.0 or better each and every semester or summer session in which he or she is enrolled through program completion. If a student fails to meet the semester GPA requirement and the failure is the first occurrence since admission to the program, the student will be placed on academic notice by the Graduate College but will be allowed to continue in the program. If a student fails to meet the semester GPA requirement and the failure is the second occurrence since admission to the program, the student will be administratively withdrawn from the program by the Graduate College. The semester GPA requirement is null for those

semesters or summer sessions where none of the credits taken by the student are applicable to the GPA calculation.

Program GPA Requirement. A student who is admitted to a graduate program is required to list on the *Admission to Candidacy* form (for a degree program) or on the *Completion of Graduate Certificate* form (for a certificate program) the specific courses to be applied to meet all of the credit requirements defined for the program. The program grade point average (program GPA) is the grade point average computed for this set of specific courses. If a student fails to achieve a program GPA of 3.0 or better, the student is ineligible for a degree or certificate and should consult the graduate program coordinator for advice and possible options.

Individual Course Requirements. A student who is admitted to a graduate program cannot list a course on the *Admission to Candidacy* form (for a degree program) or on the *Completion of Graduate Certificate* form (for a certificate program) if it is graded lower than C or P except that an undergraduate course, a G-designated course, or a transfer course cannot be listed if it is graded lower than B. If the grade for a specific course that is required by the program is too low to be listed on the *Admission to Candidacy* or *Completion of Graduate Certificate* form, and if that grade cannot be improved under the course repetition policy (see *Repetition of Courses* below), then it is not possible for the student to complete the program requirements and he or she will be administratively withdrawn from the program by the Graduate College.

Repetition of Courses

Repetition to Improve a Grade. A graduate student who has completed a course for credit may attempt to repeat that course to improve the grade but only once and only with the written approval of the graduate program coordinator. Certain courses cannot be repeated to improve a grade, including 590 Practicum/Internship, 591 Project, 593 Thesis, and 693 Dissertation. If an attempt to repeat a course to improve a grade results in a grade of W or CW, an additional attempt is not permitted unless extenuating circumstances can be documented that are clearly beyond the control of the student.

A course that has been completed more than once in an attempt to improve a grade can be listed only once on an *Admission to Candidacy* or *Completion of Graduate Certificate* form; the listed semester and grade must be for the most recent completion for credit. All course registrations on record beyond published drop dates for each semester or summer session appear on the student transcript and GPA computations are carried out according to university policy 2100-B. In order to conform with previous policies of the Graduate College on course repetition to improve a grade, a graduate student may not repeat a Boise State course to improve a grade of F if the course was initially completed prior to the start of the fall 2003 semester.

Repetition for Credit. The university-wide graduate course numbers and some departmental courses (such as MUS 563 and MUS 564) are associated either with specifically defined efforts by an individual student or with content characteristics that can change from semester to semester. These courses and others like them may be repeated for credit and listed multiple times by a graduate student on his or her *Admission to Candidacy* form or *Completion of Graduate Certificate* form subject to all approvals and limitations of the graduate program and the Graduate College.

Transfer Credit

Transfer credit is academic credit that is awarded to a student by another college or university and is approved for application to the requirements of a graduate certificate or degree at Boise State University. Transfer credit must satisfy the following restrictions:

1. Transfer credit must be academic credit representing a grade of A or B awarded by a regionally accredited U.S. college or university or by a non-U.S. institution of higher education that is approved for transfer purposes by the Registrar; continuing education units (CEU) and other non-academic credits are ineligible for transfer credit.
2. Culminating activity courses, courses where the grade is based only on attendance, and courses representing experiential learning, regardless of the level (undergraduate or graduate), are ineligible for transfer credit.
3. Credit applied to meet the requirements of a previously earned degree or certificate of any type at another institution is ineligible for use as transfer credit. The only exception is that credit applied to a previously earned master's degree at another institution may be applicable as transfer credit to a doctoral degree.
4. Application of transfer credit must be approved by the academic unit responsible for the graduate program.

The maximum transfer credit that can be applied to meet the requirements of a graduate certificate or degree is limited by the fundamental requirement that at least two thirds of the total credit requirement for the degree or certificate must be earned at Boise State University since admission to the program. An academic unit responsible for a particular graduate program may impose a more restrictive transfer policy (fewer allowed transfer credits) for that program. In the case of a cooperative graduate program offered by Boise State University and the University of Idaho and/or Idaho State University, a more liberal transfer policy (more allowed transfer credits) is permissible but only if the Graduate Council has approved a higher transfer credit limit for the program.

G-Courses and Dual-Listed Courses

A student enrolled in a G-course or a 500-level dual-listed course must complete all work required of students earning undergraduate credit (in the corresponding non-G-course or 400-level dual-listed course) plus substantial work at the graduate level. The Graduate College strictly limits the application of G-courses to no more than one third of the total credit requirement of a graduate certificate or degree. Furthermore, the Graduate College recommends that the applicable credit earned in G-courses and 500-level dual-listed courses together should not exceed one half of the total credit requirement of a graduate certificate or degree. The academic

unit responsible for a graduate program may further restrict the application of G-courses and 500-level dual-listed courses.

Application of Credit Already Applied to a Graduate Certificate

A graduate certificate is viewed by some academic units as an intermediate accomplishment or stepping stone between a baccalaureate degree and a master's degree (see *Regulations for Graduate Certificate Programs*). The Graduate College therefore allows graduate credit (but not undergraduate credit) earned at Boise State University and previously applied to meet the requirements of a Boise State graduate certificate to also be applied to meet the requirements of a Boise State master's degree. This process is known as *dual application* and is subject to the following stipulations: (1) the dual application of credit must be consistent with those policies of the master's program that may limit or preclude such application; (2) all time constraints imposed by the Graduate College that govern the applicability of the credit must be met (including the requirement that at least two thirds of the total credit requirement for the master's degree must have been earned since admission to the master's program); (3) the dual application of credit must be approved by the advisor or by the chair of the supervisory committee. In no case may dual application of credit exceed one half of the total credit requirement for the master's degree. The creation of analogous arrangements between graduate certificates and doctoral degrees is prohibited by the Graduate College.

In-Service Teacher Education Workshop Courses

Credit earned for in-service teacher education workshop courses (for which a special low fee is charged by the university) cannot be applied to meet the credit requirements of a graduate certificate or degree program (see section V.R.1.(10).(d) of the *Policies and Procedures of the Idaho State Board of Education*).

Challenge Courses

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

Graduate Credit Option for Undergraduate Students

An undergraduate student who is also a senior may request approval to enroll in a G-course or a 500-level course. The student must complete a *Permit for Seniors to Take Graduate Courses* (available from the Registrar or from Graduate Admission and Degree Services). The student may request permission to earn graduate credit (option I) or upper-division undergraduate credit (option II) for a given course but cannot request both options.

Graduate Credit (Option I). Graduate credit earned under a *Permit for Seniors to Take Graduate Courses* does not imply that the student will be admitted to a graduate program at Boise State University in the future. If the student completes courses for graduate credit while a senior and is later admitted to a graduate program, the responsible academic unit has the authority to decide which courses (if any) completed as a senior can be applied to the credit requirements of the program. The academic unit also has the authority to define a maximum number of applicable credits of this type for the program but the maximum cannot exceed one third of the total credit requirement.

Upper-Division Undergraduate Credit (Option II). The student may apply up to two successfully completed 500-level courses to his or her upper-division credit requirement for a baccalaureate degree.

Other Limitations. Undergraduate students may not enroll in 600-level courses. Courses offered as part of the Master of Business Administration program are excluded from enrollment by all undergraduate students.

Choice of Catalog Year

A student enrolled in a graduate certificate or degree program may choose to meet the program requirements defined in any graduate catalog in effect after admission to the program. The final audit carried out by the Registrar will use the requirements in the graduate catalog specified by the student. If the student specifies no particular catalog, then the program requirements in the current catalog become the default selection.

Admission to Candidacy

Admission to candidacy is required of all degree-seeking graduate students and serves as an important intermediate check that reveals overlooked or misinterpreted requirements. If left uncorrected, these shortcomings can seriously delay progress toward a graduate degree. Because of the importance of candidacy, a student who has not been admitted to candidacy cannot schedule or participate in a final oral examination or file a *Completion of Graduate Degree* form (see *Completion of Graduate Degree* below). Normal procedures may resume once the student has been admitted to candidacy. The requirements for admission to candidacy depend on the type of degree as follows:

Candidacy Requirements for a Master's Student. A master's student may be admitted to candidacy if he or she is in regular status and has completed a set of courses sufficient to satisfy at least one half of the total credit requirement with individual course grades of C or better and a GPA of at least 3.0 (computed for the set of courses).

Candidacy Requirements for a Doctoral Student. A doctoral student may be admitted to candidacy if he or she is in regular status, has passed the comprehensive examination, has satisfied any language proficiency requirement, has satisfied the doctoral residency requirement, and has completed a set of

courses sufficient to satisfy the total credit requirements (exclusive of 693 Dissertation) with individual course grades of C or better and a GPA of at least 3.0 (computed for the set of courses).

Procedures. It is important that a student apply for candidacy as soon as the candidacy requirements are believed to be met. A student applies for admission to candidacy by completing an *Admission to Candidacy* form provided by the Graduate College or by the academic unit responsible for the program. A properly completed *Admission to Candidacy* form includes the exact final list of courses that are to be applied to meet the credit requirements of the graduate degree program as defined in a specified edition of the graduate catalog. The form must be signed by the student, by the chair of the supervisory committee or the advisor, and by the graduate program coordinator, and is then submitted to Graduate Admission and Degree Services at least one semester before the expected date of graduation (exact deadlines are published in the academic calendar). Once the *Admission to Candidacy* form is approved by the Graduate College, the student is notified that he or she has been admitted to candidacy and the form becomes a binding agreement between the student and the university. A change in an approved *Admission to Candidacy* form cannot be made without approval of an *Adjustment of Academic Requirements* form by the academic unit and the Graduate College.

Preparation and Submission of Theses, Projects, and Dissertations

A student must follow the publication standards of the Graduate College for dissertations and theses as given in a manual entitled *Standards for Preparation of Dissertations, Theses, and Projects in the Graduate College* (available in the Boise State University Bookstore). Academic units may also choose these standards on a programmatic basis for the format and archival of master's projects (see *Project* in the *Regulations for Master's Programs* section). A student should consult with the chair of his or her supervisory committee or his or her advisor on matters of form and style such as abbreviations, figures, tables, footnotes, references, and bibliography. Many academic units have adopted a style manual that is appropriate to the major field of study.

The final draft of a dissertation or thesis (or project if required to meet Graduate College standards by the academic unit) must be reviewed by the dissertation and thesis editor of the Graduate College. Documents that do not conform to the standards of the Graduate College will be returned to the student. When the document is fully approved by the editor, the student must provide two archival copies to be retained by the university that are printed on 25% cotton fiber paper. Receipt of these copies in the Graduate College must occur no later than the deadline published in the academic calendar (about five weeks before the expected date of graduation). The academic unit may also require the student to provide a fully approved archival copy on 25% cotton fiber paper.

Completion of Graduate Certificate

A student nearing completion of a graduate certificate program must submit a *Completion of Graduate Certificate* form with attached certificate fee to Graduate Admission and Degree Services. The form must be submitted no later than the deadline published in the academic calendar for the semester or summer session in which the student intends to complete the certificate requirements. The *Completion of Graduate Certificate* form specifies the expected date of completion (May, August, or December of a particular year) and also lists the courses to be applied to meet the certificate requirements. The form initiates required completion processes such as the certificate audit and reservation of an official embossed certificate. As is the case with students in degree programs, certificate students who miss their expected date of completion twice are placed on inactive status by the Registrar and are required to follow special procedures in order to regain a completion date.

Completion of Graduate Degree

A student nearing completion of a graduate degree program must submit a *Completion of Graduate Degree* form with attached diploma fee to Graduate Admission and Degree Services. The form must be submitted no later than the deadline published in the academic calendar for the semester or summer session in which the student intends to complete the degree requirements. The *Completion of Graduate Degree* form specifies the expected date of graduation (May, August, or December of a particular year) and initiates required completion processes such as the degree audit, addition to the list of graduation candidates, and reservation of an official embossed diploma. Students who miss their expected date of graduation twice are placed on inactive status by the Registrar and are required to follow special procedures in order to regain a graduation date.

Commencement

Candidates for graduate degrees are eligible for participation in commencement if cleared to do so by the Registrar. A student completing a graduate certificate program is not eligible to participate in commencement unless he or she is also a candidate for a graduate degree and has been cleared for participation by the Registrar. Diplomas and certificates are mailed to recipients after satisfactory completion of a final audit of all program requirements by the Registrar.

Program Time Lines

All time lines associated with graduate certificate and degree programs are published each semester or summer session in the academic calendar. These time lines include application and fee payment deadlines, last day to add and drop courses, starting and ending dates for semesters and sessions, and last days for filing program forms, final oral examinations, and submission of final archival copies of theses and dissertations. It is the responsibility of the student to be familiar with these time lines.

Regulations for Graduate Certificate Programs

Description

A graduate certificate program is limited in scope relative to a graduate degree program but provides a significant opportunity for advanced study with a particular focus. Successful completion of a graduate certificate program is a coherent academic accomplishment that leads to an official notation on the student transcript. Subject to the regulations that govern a specific program, a graduate certificate can often serve as an intermediate accomplishment for a student whose ultimate goal is a graduate degree.

Certificate Requirements

The curriculum of a graduate certificate program is a set of academic courses identified by the university as suitable for all students who wish to study a clearly delineated topic within a disciplinary or interdisciplinary setting. The curriculum may include both specific courses and a selection of elective courses.

Credit Requirements. The program of study leading to a graduate certificate must satisfy the following stipulations: (1) the total credit requirement cannot exceed one-half of the total number of credits required by the most closely related master's degree program offered by the university; (2) the total credit requirement must include at least nine graduate credits earned in courses exclusive of university-wide graduate courses 591-600, 693, and 696- 697. A limited number of credits earned in undergraduate courses may be applied to meet the credit requirements (see *Restrictions on Certain Courses* below). In all cases, at least two thirds of the total credit requirement must be earned at Boise State University since admission to the program. All credit must be academic credit and must be approved for application by the graduate program coordinator.

Culminating Activity. A culminating activity is normally not a requirement of a graduate certificate program but is not precluded from being a requirement. If a culminating activity is required, it must be of limited scope relative to the culminating activity required by the most closely related master's degree program offered by the university. The culminating activity must be represented in the total credit requirements using an appropriate course.

Duration of Graduate Study. All requirements for a graduate certificate (including courses completed at another college or university) must be started and completed within a single continuous interval of no more than four years; extensions of this time limit are prohibited by the Graduate College.

Restrictions on Certain Courses

All graduate certificate programs must be consistent with the following restrictions. An academic unit responsible for a particular certificate program may impose more stringent restrictions for that program.

Undergraduate Courses. The number of applicable credits earned in undergraduate courses cannot exceed one third of the total number of required graduate credits. An undergraduate course applied to a graduate certificate must be an upper division course with a grade of B or better and the course cannot represent effort for an undergraduate thesis, internship, practicum, independent study or research, conference or workshop, experiential learning, study abroad, seminar, or colloquium.

Previously Applied Courses. In general, any course applied to a previously earned certificate or degree of any type at any institution cannot be applied to meet the credit requirements of a graduate certificate program. An exception that applies to a specific certificate program may be approved by the Graduate Council.

Simultaneous Enrollment in a Graduate Certificate and Degree Program

A student may be enrolled simultaneously in a graduate certificate program and a graduate degree program subject to the following conditions: (1) the content of the two programs are logically related; (2) the specific policies of the two programs permit co-enrollment; (3) the co-enrollment is approved by the chair of the supervisory committee or the advisor and the coordinators of the graduate certificate and degree programs. Because at least two thirds of the total credit requirement for a certificate must be earned at Boise State University since admission to the certificate program, graduate degree-seeking students who are interested in acquiring a graduate certificate as an intermediate step should promptly apply to the certificate program.

Enrollment in More Than One Certificate Program

Simultaneous enrollment in two graduate certificate programs is permitted but only under the condition that both certificate programs allow simultaneous enrollment. Simultaneous enrollment in more than two graduate certificate programs is prohibited by the Graduate College.

Regulations for Master's Programs

Description

Although programs leading to a master's degree are very diverse, they generally fall into two categories depending on overall emphasis and the nature of the culminating activity. Scholarly programs emphasize research or creative activities and require a thesis that is defended formally in a public setting and archived in the university library. Professional programs emphasize the application of advanced knowledge and skills and require a project, capstone course, series of practicums, recital, or comprehensive examination. Both scholarly and professional master's programs involve substantial study beyond the baccalaureate degree, impart the methodology of discovery or creation in a given discipline, and prepare students to contribute at an advanced level to the workplace and to the community.

Degree Requirements

Advisor or Supervisory Committee. A student admitted to a master's program must be under the guidance of either a supervisory committee or an advisor appointed soon after admission; see *Guidance of Graduate Students* in the *Graduate Academic Regulations* section.

Credit Requirements. The program of study leading to a master's degree must include at least 30 total credits. All credit applied to meet the total credit requirement must be graduate academic credit except that a limited number of credits earned in undergraduate courses outside the major are allowed (see *Restrictions on Certain Course*s below). In all cases, at least two thirds of the total credit requirement must be earned at Boise State University since admission to the program. All credit must be approved for application by the chair of the supervisory committee or the advisor.

Language Proficiency. A master's student must be proficient in English and may be required to demonstrate a prescribed level of ability in one or more other languages. If language ability beyond proficiency in English is required, the means of verification are defined by the academic unit responsible for the program.

Culminating Activity. The program of study leading to a master's degree must include at least one culminating activity that may be a thesis, project, capstone course, series of practicums, performance recital or lecture recital, or comprehensive examination. The culminating activity or activities should be represented in the program by nonzero credit but cannot exceed one third of the total credit requirement. Exceptions to the culminating activity requirement can only be made on a programmatic basis and must be approved by the Graduate Council.

Final Oral Examination. A student enrolled in a master's program with a thesis requirement must pass a final oral examination that probes his or her ability to describe and defend all aspects of the thesis in both a public setting and a private conference with experts (see Final Oral Examination below).

Duration of Graduate Study. The minimum duration of study for the master's degree is one academic year after admission to the program. All requirements for a master's degree (including courses completed at another college or university) must be started and completed within a single continuous interval of no more than seven years.

Restrictions on Certain Courses

All master's programs must be consistent with the following restrictions. An academic unit responsible for a particular master's program may impose more stringent restrictions for that program.

Undergraduate Courses. An undergraduate course may be applied to meet the credit requirements of a master's degree subject to the following restrictions:

1. The course must be an upper-division course and must be in a discipline outside the major field of study of the master's program.
2. A grade of B or better must have been earned in the course.
3. The course cannot represent effort for an undergraduate thesis, internship, practicum, independent study or research, conference or workshop, experiential learning, study abroad, seminar, or colloquium.

Previously Applied Courses. In general, any course applied to a previously earned degree or certificate of any type at any institution cannot be applied to meet the credit requirements of a master's program. The only exceptions are (1) a graduate course applied to a graduate certificate previously earned at Boise State University and (2) a graduate course that qualifies for application under regulations for a second master's degree at Boise State University. Each course allowed under either of these two exceptions is subject to the following additional restrictions:

1. A grade of B or better must have been earned in the course.
2. The course cannot represent effort for a graduate culminating activity or for experiential learning.

Graduate courses allowed under the first exception are limited by any additional stipulations that may be in place for the master's program (see *Application of Credit Already Applied to a Graduate Certificate* in the *Graduate Academic Regulations* section). Graduate courses allowed under the second exception are limited by stipulations in place for second master's degrees (see *Second Master's Degree* below).

Aggregate Restriction. No more than one third of the total credit requirement exclusive of culminating activity credit can be met by the sum of credits earned in undergraduate courses, pass-fail courses, and university-wide courses numbered 590, 592, 594-598, and 696-697 (or equivalent courses that may appear as transfer credits).

Thesis

A thesis documents original research or creative activity carried out by a student enrolled in a master's program. A *research thesis* is characterized by a clearly stated proposition or hypothesis that is investigated using analysis and synthesis of data or other scholarly evidence; the thesis must include a discussion of the relevant literature and demonstrate the ability of the student to independently and successfully address a significant intellectual problem with concepts and methods that are accepted in the major field of study. A *creative thesis* includes works of fiction, poetry, and creative nonfiction and is associated with the Master of Fine Arts in Creative Writing program.

Thesis Proposal. A thesis proposal must be approved in advance by the supervisory committee. The thesis proposal presents the background, objectives, scope, methods, and time lines of the thesis research. Substantive work done by the student prior to the appointment of the supervisory committee or work represented by credit other than 593 Thesis (such as 596 Independent Study and 696 Directed Research) is not acceptable for the thesis under any conditions.

Final Thesis Approvals and Procedures. A thesis that has been successfully defended by the student at the final oral examination must be approved in final form by all members of the supervisory committee and by the dean of the Graduate College. The thesis in final form must also conform to the standards of the Graduate College as determined by the thesis and dissertation editor. Because the thesis is expected to be available to other scholars and to the general public, the entire thesis must be archived in the university library. The student should refer to *Preparation and Submission of Theses, Projects, and Dissertations* in the *Graduate Academic Regulations* section.

Registration for Thesis Credit. A master's student who is engaged in thesis activity during any semester or term, including the semester or term of the final oral examination and the semester or term in which the two archival copies of the thesis are submitted to the Graduate College, must register for at least one credit of 593 Thesis, regardless of the number of 593 Thesis credits already accumulated by the student.

Thesis Grading. All 593 Thesis credits are graded in progress (IP) until a final grade of either pass (P) or fail (F) is assigned by the academic unit responsible for the program. A grade of pass (P) is assigned to all 593 credits if the final oral examination is passed, the thesis in final form is fully approved, and the student has met all procedural requirements related to the thesis. A grade of fail (F) is assigned to all 593 credits if the student fails the final oral examination.

Project

A project is a substantial exercise that demonstrates the ability of a master's student to carry out independently and successfully a professional activity similar to what may be encountered in the workplace. Although a final oral examination for a project is not required by the Graduate College, the academic unit responsible for a master's program may define procedures for such an examination and require it for all students in the program.

Final Project Approvals and Procedures. The academic unit determines the common format and archival method (subject to approval by the Graduate College) that applies to all projects produced in the program. This flexibility is an acknowledgment of the great diversity of projects and the difficulty of preserving them with a system fixed for the entire university. A format and archival method for text-based projects has been established by the Graduate College and is one option available to academic units (see *Preparation and Submission of Theses and Dissertations* in the *Graduate Academic Regulations* section). Regardless of the procedures adopted for projects by an academic unit, the unit is responsible for filing a *Report of Master's Culminating Activity* form with the Graduate College as soon as the project is successfully completed.

Registration for Project Credit. A master's student who is engaged in project activity during any semester or term, including the semester or term in which the project in final form achieves full approval, must register for at least one credit of 591 Project, regardless of the number of 591 Project credits already accumulated by the student.

Project Grading. All 591 Project credits are graded in progress (IP) until a final grade of either pass (P) or fail (F) is assigned by the academic unit responsible for the program. The same grade (P or F) must be assigned to all 591 credits registered by the student during his or her career in the program.

Capstone Course

A capstone course is a graduate course that serves as a final comprehensive assessment of the knowledge and skills of a master's student in the major field of study. As a culminating activity, a capstone course is taken in the last semester of a master's program and may be a grade-point course or pass-fail course. A capstone course may be designated with a program-specific graduate course number or may use university-wide graduate course 600 Assessment with *Capstone Course* as the optional modifier.

Series of Practicums

A practicum is a supervised practical application of previously studied theory that takes place in a professional, clinical, or field setting. The culminating activity for a master's program may be a series of practicums completed primarily during the later phases of the program. A practicum may be designated with a program-specific graduate course number or may use university-wide graduate course 590 Practicum/Internship.

Performance Recital or Lecture Recital

A performance recital or lecture recital coupled with one or more examinations may be used as a culminating activity for a master's program in the performing arts. A performance recital or lecture recital is designated with a program-specific graduate course number and must be a pass-fail course.

Comprehensive Examination

A comprehensive examination assesses depth and breadth of knowledge. When used as the culminating activity or as part of the culminating activity for a master's degree, a comprehensive examination cannot be attempted until the student has completed all core courses and has been admitted to candidacy. The academic unit responsible for the program may impose additional conditions to be met by the student prior to the examination, such as completion of all courses required for the degree.

Considerable autonomy is granted to the academic unit in the design, administration, and evaluation of a comprehensive examination. However, the examination date must be no later than the deadline specified in the academic calendar for the semester or term just prior to graduation. In addition, the result of the examination can only be stated as pass or fail and must be reported to the Graduate College on a *Report of Master's Culminating Activity* form.

A student must be registered for at least one credit during the semester or term of the comprehensive examination. This registration requirement may be satisfied by enrollment in any course for academic credit. In some programs the registration requirement is automatically satisfied because the academic unit requires the student to register for 600 Assessment with Comprehensive Examination as the optional modifier. When 600 Assessment is used to represent a comprehensive examination, the result of the examination can only be reported to the registrar as pass (P) or fail (F).

Final Oral Examination

The Graduate College requires a final oral examination for a master's student only if he or she is completing a thesis as a culminating activity. The examination must consist of three sequential parts in which the student presents and defends the thesis research: (1) a public presentation, (2) a public question and answer session, and (3) a private question and answer session with a committee of experts known as the *defense committee*. The final oral examination must occur no later than the deadline specified in the academic calendar for the semester or term just prior to graduation. Announcement of the public presentation to the university community is required and should precede the presentation by at least two weeks.

The defense committee is normally responsible for conducting all three parts of the final oral examination and is identical to the student's supervisory committee. However, at the request of the student or academic unit, a graduate faculty representative (GFR) may be appointed to the defense committee as a nonvoting member by the dean of the Graduate College. The GFR must hold full rank in the graduate faculty and must be a member of an academic unit not represented on the supervisory committee. The GFR conducts all three parts of the final oral examination according to procedures established by the Graduate College. In all cases, the result of the final oral examination can only be reported as pass or fail and must be included on a *Report of Master's Culminating Activity* form.

Failure of a Comprehensive Examination or Final Oral Examination

A comprehensive examination or final oral examination that is failed on the first attempt can be repeated once but only if a repeat attempt is requested by the student and approved by the academic unit responsible for the program. The student request must be in writing to the head of the academic unit and must be made within five working days after the student is notified of his or her failure. If a repeat attempt is not requested by the student, or if a request is made by the student but not approved by the academic unit, then the student is administratively withdrawn from the program by the Graduate College. If the student's request is approved by the academic unit, then the repeat attempt must occur within twelve months after the first attempt. If the student does not repeat the examination within twelve months after the first attempt, or if the student fails the repeat attempt, then the student is administratively withdrawn from the program by the Graduate College. Any extension of the twelve-month limit on the repeat attempt must be approved by the academic unit and by the graduate dean.

Second Master's Degree

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

1. The student must meet all requirements prescribed for the second degree.
2. Requirements for the second degree that have already been met in the program for the first degree may be counted toward the second degree at the discretion of the supervisory committee or advisor and with the approval of the graduate dean. Credit for culminating activities is automatically excluded from application to both degrees.
3. At least two thirds of the credit applied to the second degree must represent new course work (i.e., courses not already applied to the first degree).
4. All requirements for the second degree (including courses completed at another college or university) must be started and completed within a single continuous interval of no more than seven years.
5. A student cannot be admitted to a second master's degree program until all requirements for the first master's degree have been completed.

Handbook of Procedures

Some academic units have compiled handbooks of procedures for those master's programs for which the unit has responsibility. A copy may be obtained through the graduate program coordinator for the program.

Regulations for Doctor of Philosophy Programs

Description

The Doctor of Philosophy (Ph.D.) degree is the most advanced research degree awarded by the university. It requires demonstration of expertise in a major field of study, a working understanding of one or more related disciplines, independent research leading to a significant and original contribution to knowledge, and (in some cases) proficiency in one or more foreign languages. Recipients of the Ph.D. degree generally engage in careers of active scholarship in a wide variety of employment settings.

Degree Requirements

Supervisory Committee. A student admitted to a Ph.D. program must be under the guidance of a supervisory committee appointed soon after admission: see *Guidance of Graduate Students* in the *Graduate Academic Regulations* section.

Credit Requirements. The program of study leading to a Ph.D. degree must satisfy the following minimum credit requirements: 66 total credits consisting of 18 credits in 693 Dissertation plus 48 credits in other courses. Of the 48 credits in other courses, 24 credits must be earned in graduate courses in the major field of study with 12 such credits in 600-level courses. All credit applied to meet the credit requirements must be graduate academic credit except that a limited number of credits earned in undergraduate courses outside the major are allowed (see *Restrictions on Certain Courses* below). In all cases, at least two thirds of the total credit requirement must be earned at Boise State University since admission to the program. All credit must be approved for application by the supervisory committee.

Residency. A Ph.D. student must spend at least one academic year in full-time on-campus graduate study at Boise State University.

Comprehensive Examination. A Ph.D. student must pass a comprehensive examination that assesses (1) depth and breadth of knowledge in the major field of study and in one or more related disciplines and (2) readiness to undertake dissertation research; see *Comprehensive Examination* below.

Language Proficiency. A Ph.D. student must be proficient in English and may be required to demonstrate a prescribed level of ability in one or more other languages. If language ability beyond proficiency in English is required, the means of verification are defined by the academic unit responsible for the program.

Dissertation. A Ph.D. student must prepare a dissertation written in clear and effective English that embodies the results of his or her original scholarly research (see *Dissertation* below).

Final Oral Examination. A Ph.D. student must pass a final oral examination that rigorously and deeply probes the ability of the candidate to describe and defend all aspects of the dissertation research in both a public setting and in a private conference with experts (see *Final Oral Examination* below).

Duration of Graduate Study. The minimum duration of study for the Ph.D. degree is three academic years beyond the baccalaureate degree. All requirements for a Ph.D. degree (including courses completed at another college or university) must be started and completed within a single continuous interval of no more than ten years.

Restrictions on Certain Courses

All Ph.D. programs must be consistent with the following restrictions. An academic unit responsible for a particular Ph.D. program may impose more stringent restrictions for that program.

Undergraduate Courses. An undergraduate course may be applied to meet the credit requirements of a Ph.D. degree subject to the following restrictions:

1. The course must be an upper-division course and must be in a discipline outside the major field of study of the Ph.D. program.
2. A grade of B or better must have been earned in the course.
3. The course cannot represent effort for an undergraduate thesis, internship, practicum, independent study or research, conference or workshop, experiential learning, study abroad, seminar, or colloquium.

Previously Applied Courses. In general, any course applied to a previously earned degree or certificate of any type at any institution cannot be applied to meet the credit requirements of a Ph.D. degree. The only exception is a graduate course applied to a master's degree previously earned at a regionally accredited U.S. institution or non-U.S. institution approved by the Graduate College and the Registrar. Each course allowed under this exception is subject to the following additional restrictions:

1. A grade of B or better must have been earned in the course.
2. The course cannot represent effort for a graduate culminating activity or for experiential learning.

Graduate courses allowed under this exception are limited by the fundamental requirement that at least two thirds of the total credit requirement for the Ph.D. degree must be earned at Boise State University since admission to the program.

Aggregate Restriction. No more than one third of the total credit requirement exclusive of culminating activity credit (693 Dissertation) can be met by the sum of credits earned in undergraduate courses, pass-fail courses, and university-wide courses numbered 590, 592, 594-598, and 696-697 (or equivalent courses that may appear as transfer credits).

Comprehensive Examination

The comprehensive examination for a Ph.D. student should be administered when the student is in regular status and has completed at least 32 but no more than 48 applicable credits exclusive of 693 Dissertation credit. Although the

comprehensive examination is required for a Ph.D. student by the Graduate College, considerable autonomy is granted to the academic unit in its design, administration, and evaluation. The result of the comprehensive examination can only be stated as pass or fail and must be reported to the Graduate College on a *Report of Doctoral Comprehensive Examination* form. The academic unit may also record the result on the transcript as pass (P) or fail (F) using 600 Assessment with Comprehensive Examination as the optional modifier.

Dissertation

Original research carried out by a student at the doctoral level is documented by a dissertation. A dissertation is characterized by a clearly stated proposition or hypothesis that is investigated using analysis and synthesis of data or other scholarly evidence. The dissertation must demonstrate mastery of the relevant literature and the ability of the student to independently and successfully address a substantial intellectual problem with concepts and methods that are accepted in the major field of study.

Dissertation Proposal. A dissertation proposal must be approved in advance of the dissertation research by the supervisory committee. The dissertation proposal presents the background, objectives, scope, methods and time lines of the dissertation research. Substantive work done by the student prior to the appointment of the supervisory committee or work represented by credit other than 693 Dissertation (such as 596 Independent Study and 696 Directed Research) is not acceptable for the dissertation under any conditions.

Final Dissertation Approvals and Procedures. A dissertation that has been successfully defended by the student at the final oral examination must be approved in final form by all members of the supervisory committee, by the chair or dean of the responsible academic unit, and by the dean of the Graduate College. The dissertation in final form must also conform to the standards of the Graduate College as determined by the thesis and dissertation editor. Because the dissertation is expected to be available to other scholars and to the general public, the entire dissertation must be submitted to UMI and must also be available in the university library. The student should refer to *Preparation and Submission of Theses, Projects, and Dissertations* in the *Graduate Academic Regulations* section.

Registration for Dissertation Credit. A Ph.D. student who is engaged in dissertation activity during any semester or term, including the semester or term of the final oral examination and the semester or term in which the two archival copies of the dissertation are submitted to the Graduate College, must register for at least one credit of 693 Dissertation, regardless of the number of 693 Dissertation credits already accumulated by the student.

Dissertation Grading. All 693 Dissertation credits are graded in progress (IP) until a final grade of either pass (P) or fail (F) is assigned by the academic unit responsible for the program. A grade of pass (P) is assigned to all 693 credits if the final oral examination is passed, the dissertation in final form is fully approved, and the student has met all procedural requirements related to the dissertation. A grade of fail (F) is assigned to all 693 credits if the student fails the final oral examination.

Final Oral Examination

The final oral examination for a Ph.D. student must consist of three sequential parts in which the student presents and defends the dissertation research: (1) a public presentation, (2) a public question and answer session, and (3) a private question and answer session with a committee of experts known as the *defense committee*. The defense committee must include the supervisory committee plus a nonvoting graduate faculty representative (GFR) appointed by the dean of the Graduate College. At the request of the academic unit responsible for the program, the graduate dean may appoint one additional voting member to the defense committee where this appointee may be from the university or from outside the university. The GFR must hold full rank in the graduate faculty and must be a member of an academic unit not represented on the supervisory committee. The GFR conducts all three parts of the final oral examination according to procedures established by the Graduate College. In all cases, the result of the final oral examination can only be reported as pass or fail and must be included on a *Report of Doctoral Final Oral Examination* form.

Failure of the Comprehensive Examination or Final Oral Examination

A comprehensive examination or final oral examination that is failed on the first attempt can be repeated once but only if a repeat attempt is requested by the student and approved by the academic unit responsible for the program. The student request must be in writing to the head of the academic unit and must be made within five working days after the student is notified of his or her failure. If a repeat attempt is not requested by the student, or if a request is made by the student but not approved by the academic unit, then the student is administratively withdrawn from the program by the Graduate College. If the student's request is approved by the academic unit, then the repeat attempt must occur within twelve months after the first attempt. If the student does not repeat the examination within twelve months after the first attempt, or if the student fails the repeat attempt, then the student is administratively withdrawn from the program by the Graduate College. Any extension of the twelve-month limit on the repeat attempt must be approved by the academic unit and by the graduate dean.

Handbook of Procedures

Procedures for Ph.D. students that are either required or recommended by the Graduate College are summarized in the *Handbook of Procedures for Ph.D. Students* available from the Graduate College.

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 Graduate Admission and Degree Services 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 link 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, or the Canyon County Center. The BroncoWeb Help Center is available in Room 110 of the Administration Building for those students not familiar with the web process. You cannot register before your appointed time and you must have your user name 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 *Boise State University Schedule of Classes*. You register by appointment, via BroncoWeb, according to a schedule established by the Registrar's Office.

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 begins for new degree-seeking students.

Registration Cancellation

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."

Academic and Fee Policy

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 (including classes and workshops that begin later in the semester), you must cancel your registration by dropping your classes via BroncoWeb at http://broncoweb.boisestate.edu by the appropriate session deadline.

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.

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

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 before the appropriate session deadline. 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.

You may drop and add classes on BroncoWeb (http://www.boisestate.edu and select BroncoWeb). For more information about dropping or adding classes, see the *Boise State University Schedule of Classes* or call the BroncoWeb Help Center at 208 426-2932.

Before the semester begins, you may add classes to your schedule, on BroncoWeb (http://www.boisestate.edu and select BroncoWeb), without first obtaining the instructor's permission, if there is space available in the class. You may continue to add classes from the first day of classroom instruction, until the deadline appropriate to the session. (See the academic calendar in the *Boise State University Schedule of Classes* for the exact deadline.)

However, after the fifth day of the semester, you must obtain the instructor's approval to add the class. Instructors may refuse to grant permission if the class is full. They may also refuse permission if your late entry would prevent you from benefitting fully from the class, or prevent other students in the class from doing so. (If you are registering for or adding **graduate** readings and conference, practicum, internship or portfolio or **undergraduate** independent study, challenge, or credit for prior learning, you may do so through the end of the sixth week of the semester.)

You may drop classes from your schedule, on BroncoWeb (http://www.boisestate.edu and select BroncoWeb), through the sixth week of the semester. (See the academic calendar in the *Boise State University Schedule 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 *Boise State University Schedule of Classes* for the exact deadline.)

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

Boise State limits the number of withdrawals (W's) a student may receive while enrolled at Boise State. 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, such as lab equipment, uniforms, or instruments, 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 Boise State University

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. Extended Studies students can initiate a complete withdrawal via BroncoWeb or in the 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 Students. 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: In general, students receive no refund of fees if they withdraw from the university after the tenth day of classroom instruction. Federal financial aid regulations state that eligibility for aid be recalculated whenever a student withdraws from Boise State University, either officially or unofficially. The recalculation determines the amount of aid a student has "earned," by prorating according to the percent of the term completed before withdrawing. For example, a student who withdraws after completing only 30 percent of the term will have "earned" only 30 percent of original aid eligibility. A student who completes more than 60

percent of the term is considered to have "earned" 100 percent of his/her aid eligibility.

Once a student officially withdraws, the Financial Aid Office will determine if/what is owed and will provide notification of adjustments to financial aid funding. Students may be asked to provide proof of class attendances. For more information, including examples of calculations, go to http://financialaid.boisestate.edu/cwd.htm. If you have questions after reviewing that information please contact the Financial Aid Office, Administration Building, Room 113. Telephone 208 426-1664.

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 Faculty Initiated Withdrawal form to the Registrar's Office. Students withdrawn from a course for failing to attend these specified class meetings may re-enroll in the course with the instructor's permission through the tenth day of the semester. (See the *Boise State University Schedule 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 Boise State University, please refer to the chapter on University Policies and Services.

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.**

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
- Boise State University GPA

Each of the three types of GPA is calculated with the same formula: total quality points you have earned divided by the total number of 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)

As a student at Boise State University, you can be enrolled in one of three possible careers—undergraduate, graduate, or applied technology. In calculating your *cumulative GPA*, Boise State uses courses you have taken at the university in your current "career" and all courses you have transferred from other post-secondary institutions—but only if you received a final letter grade of A, B, C, D, or F in those transferred courses.

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

In calculating *semester GPA*, the formula uses only the quality points earned and GPA units attempted that semester. For *Boise State University GPA*, the formula uses only quality points earned and GPA units attempted at Boise State.

All GPA calculations exclude credits for:

- pass/fail courses in which you received a final grade of P; an F will impact your GPA.
- courses that you registered for but later dropped from your schedule, even though the course may appear on your transcript with a final grade of W or CW.
- courses you took under audit status (AUD or UAU).
- courses in which you have received the grade of I, for *incomplete*; IP, for *in progress*; or NR, for *no record* (until the I, IP, or NR is changed to a letter grade).

Incompletes

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

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

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.

You may not remove the incomplete from the transcript by re-enrolling in the class during another semester. A grade of incomplete is excluded from GPA calculations until you receive a final grade in the course.

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

Tuition and Fees

In general, the costs of attending Boise State 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 Boise State 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.

As of July 1, 2002, printed statements will no longer be mailed to students. Instead, you may access your student account, including amounts and due dates, via BroncoWeb. Failure to make payment by the specified due date will result in an assessment of a $50.00 penalty fee.

Fee Payment Plan

Information regarding deferred fee payment plans may be obtained in Payments & Disbursements, Administration Building, Room 211, 426-1212 or on-line at http://finad.boisestate.edu/images/ipay.pdf.

How Boise State University Calculates Your Tuition and Fees

When you apply for admission to Boise State, you pay a one-time, nonrefundable fee for processing your application. To calculate your other tuition and fees, Boise State 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	$3,528.00
Institutional Fees*	$2,494.00	$2,494.00
Total (for up to 19 credits)	$2,494.00	$6,022.00
Overload Fee**	$177.00 per credit hour	$177.00 per credit hour

*Includes $378 per semester Health Insurance fee that may be waived with proof of other insurance.
**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, Boise State counts all credit hours on your registration form, including credit hours under audit status, credit hours for courses you are repeating, and credit hours for workshops. In short, nearly every combination of any type of credit hour counts toward 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 graduate credits or more to be eligible for full financial aid. Please see Table 1 in the section on "University Policies and Services."

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 Boise State. 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 are nonrefundable.**

Table 5. Partial Graduate Fees, Per Semester, (less than 8 credits)	
Part-time Fees	$216.00 per credit hour
Summer 2004	$194.25 per credit hour
Summer 2005	$211.85 per credit hour
Application Processing Fee	One-time; nonrefundable (Current fee available at http://www.boisestate.edu/gradcoll or call 208-426-3903.)
Overload Fee	$177.00 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

Boise State University has published deadlines for 100% refund or waiver of fees. These deadlines differ depending upon which session the course is in. Please refer to the grid published on the Registrar's home page and/or in the printed *Boise State University Schedule of Classes*. **Failure to drop the course or cancel registration by the published 100% deadline results in assessment of full fees for the course(s).**

All students who completely withdraw from Boise State will be assessed a $25.00 administrative complete withdrawal fee.

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 or utilize the appeal form located at http://finad.boisestate.edu/images/uvappeal.pdf.

NOTE: Boise State 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 published deadline.

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

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. Beginning Fall 2003, the State Board of Education will require full time students to submit proof of insurance before an exemption can be granted. You must log in to BroncoWeb (http://www.boisestate.edu and select BroncoWeb) and submit the online health insurance waiver each semester after you have registered for 8 or more credits.

If you are a **part-time student**, enrolled in 7 or fewer credit hours, you are not eligible for the Student Health Insurance.

Dependent coverage is available to your dependents if you are a full 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 Boise State students.

Idaho Residency Requirements

When you are first admitted to Boise State, 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, Registrar's Office, Administration Building, Room 102, Telephone: 208 426-3447.

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 and have in fact established a bona fide domicile in this state primarily for purposes other than educational.

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

A: Yes. To do so, obtain a *Residency Information* form from the Registrar's Office, Administration Building, Room 102. Complete the form and submit it with a letter to the Residency Appeals Committee, according to the instructions provided, by the 15th day of class during the semester in which you are enrolled. Turn all paperwork into the Residency Coordinator, Registrar's Office, Administration Building, Room 102.

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 Boise State and remains unchanged in the absence of satisfactory written evidence to the contrary. The burden of proof in requesting reclassification to resident status rests with the individual in providing clear and convincing evidence of residency for tuition purposes as defined by the law. Individuals applying to change a 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 (any one or more of the characteristics described in items 1-9 below qualifies the individual as a resident for fee 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%) of your support from a parent, parents or legal guardians and have continuously resided in the state of Idaho for twelve (12) months next preceding the opening day of the term during which you propose to attend Boise State 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 Boise State 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 Boise State 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 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 tuition and fees:

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

If you have questions about your student account:

Contact the Account Maintenance Center
Administration Building, Room 209
208 426-2134

Financial Aid for Graduate Students

Graduate Assistantships

Graduate students at Boise State 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 or fellowship recipients have no service requirements.

If you are awarded a Boise State assistantship, you are required to enroll for 9 or more credits in a graduate-degree program, maintain at least a 3.0 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, scholarship, or fellowship, 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 students who are admitted to Boise State University in a degree or certificate program which has been approved for financial aid by the Department of Education. In addition, you must have an admissions status that meets financial aid eligibility requirements. For example, 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 either Regular or Provisional.

The information contained in this publication reflects current procedures and rules affecting the delivery of financial aid. The University reserves the right to change, at any time, schedules, rules and regulations. Appropriate notice of such changes is given, whenever possible, before they become effective.

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. **Obtain a PIN from the U.S. Department of Education.** If you applied for aid last year, your PIN should have been sent to you. If you do not have a PIN, or if you have forgotten your PIN, you may request that one be sent to you by going to the PIN web site: www.pin.ed.gov. A PIN will allow you to electronically sign your federal aid application.
2. **Complete the *Free Application for Federal Student Aid (FAFSA).*** You must submit the FAFSA if you are applying for federal loans 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.
   - Students who applied for financial aid in the prior year may find some of their information rolled over to the 2004-05 year after logging onto www.fafsa.ed.gov. Use your PIN number to correct/update that information.
   - 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.
- Do not send tax documents or other materials with your application or signature page.
- After completing your FAFSA, if you provided an e-mail address, you will receive an e-mail with a link to your Student Aid Report (SAR). If you did not provide an e-mail address, you will receive a paper SAR or a paper SAR Acknowledgment Form. Review whatever you are sent and make any necessary corrections. Please note that marital status cannot be updated if it changes after filing the FAFSA.

3. **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 notify you about required documents. Examples of requested documents include:
   - Verification Form (provided 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 request a transcript of your tax return from the Internal Revenue Service (IRS) by completing Form 4506.
   - 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).
4. **Be aware of the following deadlines.** March 15 — Deadline for graduate students to submit the FAFSA. Students who submit the FAFSA by this date are given priority status and are among the first to be considered for Perkins Loans and work-study.

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

   Students who miss these deadlines may still apply for federal aid. However, processing of applications may not be completed in time for aid to be disbursed prior to the fall fee payment deadline.

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 in a degree or certificate program which has been approved for financial aid by the Department of Education. In addition, you must have an admissions status that meets financial aid eligibility requirements. For example, 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 either Regular or Provisional.
- 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 Boise State 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.

William D. Ford Federal Direct 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 at www.fafsa.ed.gov.

Boise State processes Direct Loan applications throughout the year. If you are awarded a Direct Loan, you will need to sign a master promissory note (MPN) if you do not already have an MPN on file. If you have not previously received a Direct Loan, you must complete a debt management session

(http://financialaid.boisestate.edu/loancounseling.htm) before you can receive the funds. Also, the Direct Loan commits you to participating 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. There are terms and conditions under which students receiving this assistance may obtain deferral of the repayment of the principal and interest of the loan for service under the Peace Corps Act (22 U.S.C.2501); service under the Domestic Volunteer Service Act of 1973 (42 U.S.C.4951); or comparable service as a volunteer for a tax-exempt organization of demonstrated effectiveness in the field of community service. Please see the exit counseling information link on the following web site for more information: http://financialaid.boisestate.edu/loancounseling.htm.

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 (FWS)

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. FWS 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.

Boise State University Work-study Program and Student Employment Program

This Boise State University Work-study 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 federal/state work-study.

All student employment opportunities are listed on the Internet on **BroncoJobs** at http://career.boisestate.edu. Passwords are available from the Career Center located in the Alumni Center at 1173 University Drive (corner of Grant and University Drive), by calling 426-1747, or by e-mailing career@boisestate.edu

The GEM Nonresident Tuition Waiver

The **Gem Scholarship** is a nonresident tuition waiver for new students who are not residents of the state of Idaho, who are enrolled full-time, and are pursuing a major designated as "high-tech" by the Idaho State Board of Education.

The eligible majors are: Biology, Civil Engineering, Computer Engineering, Computer Science, Earth Science Education, Educational Technology, Electrical Engineering, Geology, Geophysics, Management Information Systems, Materials Science, Mechanical Engineering, Raptor Biology, and Technical Communications.

Students do not need to submit an application as they are automatically considered for the waiver as part of the evaluation process during admission. Deadlines differ between departments and students are encouraged to contact the department as soon as possible to confirm the deadline for their program. Contact information for our programs can be found at: http://www.boisestate.edu/gradcoll/.

The scholarship is renewable for an additional year if you complete a minimum of 16 graduate credits in the first two semesters and maintain a 3.00 GPA.

Scholarships

Information about scholarships for graduate students can be found on the web at http://financialaid.boisestate.edu/scholarships/.

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. Only one loan is given per semester. The loan requires a $25 processing fee, and must be repaid within 90 days. Applications are available in the Account Maintenance Office, Room 209, Administration Building.

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 submitted by April 1.

Financial Aid for International Students

As part of the admissions process, international students must demonstrate that they have sufficient funding to attend Boise State University for one academic year. International students are eligible for all scholarships and tuition waivers outlined in

this Financial Aid section, **except** for financial aid provided by the U.S. government or State of Idaho. As international students apply for graduate admission to Boise State University, the application packet they receive from International Admissions contains a brochure explaining the various financial resources that are available.

Disbursing Funds

In March, the Financial Aid Office begins notifying 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 or electronically deposited about one week before the start of classes, if your registration fees are paid.

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

Change in Enrollment Status

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

Partial withdrawals. Adjustments may be made to your financial aid eligibility if enrollment changes after disbursement of aid has occurred. Please be aware that withdrawals will negatively impact your satisfactory academic progress performance.

Complete withdrawals. In general, students receive no refund of tuition and fees if they withdraw from the university after the tenth day of classroom instruction. Federal financial aid regulations state that eligibility for aid be recalculated whenever a student withdraws from Boise State University, either officially or unofficially. The recalculation determines the amount of aid a student has "earned," by prorating according to the percent of the term completed before withdrawing. For example, a student who withdraws after completing only 30 percent of the term will have "earned" only 30 percent of aid eligibility. A student who completes more than 60 percent of the term is considered to have "earned" 100 percent of his/her aid eligibility. Examples of these calculations can be found on the web at: http://financialaid.boisestate.edu/cwd.htm.

Once a student officially withdraws, the Financial Aid Office will determine if/what is owed and will provide notification of adjustments to financial aid funding. If you have questions about what will happen when you withdraw, review the information on the web at: http://financialaid.boisestate.edu/cwd.htm. After reviewing that information, if you still have questions, contact the Financial Aid Office.

Unofficial withdrawals. Students who unofficially withdraw from the university, or receive a failing grade for all courses within a term, may be asked to verify attendance. Students who cannot demonstrate attendance will be required to repay all financial aid received for that term.

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 a minimum of a 3.0 cumulative Boise State GPA.
- pass 75% of all credit hours attempted while enrolled as a graduate student at Boise State University.
- complete your degree requirements within the maximum time allowed.

In addition to the above requirements, you must satisfactorily complete at least 1 credit any term you receive federal or state financial aid. Review the complete satisfactory progress policy at http://financialaid.boisestate.edu/sappolicy.htm.

Satisfactory Academic Progress Review

The university reviews most financial aid files annually (at the end of spring term). Students who are in programs of one year or less are reviewed more often. In addition, the term completion portion is reviewed at the end of summer and fall. If you are not making satisfactory academic progress or do not meet the term completion requirements (as defined by this policy on the web and briefly outlined above), you will be ineligible for financial aid until you are once again making satisfactory academic progress.

Appeals

If the university declares you ineligible to receive financial aid because of your failure to make satisfactory academic progress or meet the term completion policy, 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 prevent you from making satisfactory academic progress. If your appeal is granted, the exemption from this policy will remain in effect for only a short time (usually no longer than one semester). Appeal forms are available on the web at http://financialaid.boisestate.edu/forms.htm.

If you have questions about assistantships:

Contact the Graduate College
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://financialaid.boisestate.edu
e-mail: faquest@bsu.boisestate.edu

Student Housing

Housing On Campus and Elsewhere

Boise State student housing consists of six 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, located at Chaffee Hall. 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 Boise State provides to students seeking off-campus housing.

NOTE: If you wish to live in university housing while attending Boise State, 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 six on-campus residence halls accommodate more than 1,200 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 a computer lab, accommodates 428 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. Driscoll Hall is home of the Boise State Honors Program Office. Students participating in the Boise State honors program will receive priority consideration. 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.

Keiser and **Taylor Halls** are furnished 4 or 8 bedroom suites with the privacy of your own bedroom. Spacious living room. All-inclusive fee: rent, meal plan, cable, telephone, voice mail, utilities, broadband Internet.

Check out the options in greater detail at http://housing.boisestate.edu.

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 Boise State 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 2004-2005

Meal Options and 2004-2005 Prices	Double Room	Single Room
Chaffee, Towers, Morrison, and Driscoll Halls		
Option 1 or 4	$4,829.00	$5,491.00
Option 2 or 5	$4,679.00	$5,340.00
Option 3 or 6	$4,464.00	$5,125.00
Keiser and Taylor Halls (New 2004)		
Option 1 or 4	$4,908.00	$5,590.00
Option 2 or 5	$4,783.00	$5,465.00
Option 3 or 6	$4,538.00	$5,220.00

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 $150 per semester of Flex Dollars
Option 5: *110 meals and $200 per semester of Flex Dollars
Option 6: *75 meals and $235 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 Aramark 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 *Boise State University 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, Boise State will assign you to a particular room in one of the six residence halls. In doing so, Boise State 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 **with** 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 agreement are not themselves contractually binding, though they will be honored whenever possible.

For more information on student housing, you may visit the Office of Student Housing, located in Chaffee Hall, Boise State University, 1910 University Drive, at 1421 Campus Lane, Boise, ID 83706; or telephone at 208 426-3986, FAX 208 426-3305. The internet address is: http://housing.boisestate.edu/. You may also mail inquiries to Office of Student Housing, Chaffee Hall, Boise State University, 1910 University Drive, Boise, ID 83725-1355.

University Apartments

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

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.

University Square consists of two-bedroom apartments, carpeted and equipped with stoves, refrigerators, dishwashers, disposals, washers and dryers, broadband Internet, convenience store, playground and central heating and cooling systems. All utilities except electricity and gas are provided.

University Square Suites consist of 4 bedroom suite apartments. Independent living for older singles in furnished state-of-the-art style. Spacious living room, modern kitchen, washer-dryer, broadband Internet, parking, community center.

Eligibility

All Boise State 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 2004-2005 monthly rental rates for units in the five apartment complexes operated by Boise State.

Table 10.
Monthly Rental Rates for University Apartments

Rental Rates Per Month (2004-2005 Prices):	
University Heights	
One Bedroom	$410.00
Two Bedroom	$450.00
University Manor	
One Bedroom	$410.00
Two Bedroom	$450.00
University Park	
Two Bedroom Unfurnished	$530.00
Three Bedroom Unfurnished	$566.00
Graduate Unit	$295.00
University Village	
Two Bedroom	$575.00
University Square	
Two Bedroom	$680.00
University Square Suites	
Four Bedroom (based on four-person occupancy)	$330.00

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 from the Office of Student Housing, Chaffee Hall, Boise State University, Boise, ID 83725-1355. 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, Boise State will apply the $125.00 toward your damage deposit, partially refundable when you move from the apartment.

Boise State will notify you when an apartment is ready. 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, Boise State 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, Boise State accepts listings of off-campus, privately-owned accommodations with the understanding that the accommodations are operated in a manner consistent with Boise State policies on fair housing.

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

Directory of Student Services

Academic

The services listed below 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

The Writing Center is a free service open to all students, faculty and staff at Boise State, a place where you can find support for your writing efforts, at any stage of the writing process. You may either walk in for an appointment or call and schedule one ahead of time. Our normal hours:

- Monday through Thursday 9:00 a.m. to 6:00 p.m.
- Friday 9:00 a.m. to 4:00 p.m.
- For evening and weekend hours, please call.

Check the Writing Center's website—www.boisestate.edu/wcenter—for more information about us. You'll find a list of our policies as well as a host of other online writing resources.

Writing Center, Liberal Arts Building, Room 200, (208) 426-1298

Test Preparation

Assisting students to prepare for graduate school is the focus of two short courses offered by Boise State University 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 interview training).

Use BroncoJobs (web-based, job-search system) to schedule on-campus interviews with employers and to access job listings for student employment, internships, and career employment.

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

Family and Health

The following organizations 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. Rates are based on a sliding scale and financial assistance is available.

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, 208 426-4404

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 Services

The primary purpose of Counseling Services is to help students become more effective in dealing with concerns that influence their pursuit of personal and academic goals. There is no charge to students enrolled for six or more credit hours. Counseling Services 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, Counseling Services 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.

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

Counseling Services, Education Building, Room 605, 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 Albertsons 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, the Center serves as a place where students can gather informally to discuss issues relating to cultural diversity and other topics of interest. The Cultural 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, Second Floor, 1605 University Drive, 208 426-5950

International Students

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

The International Programs Office (IPO) provides support services to international students upon arrival on campus including assistance with arrival in Boise, orientation, as well as advising with respect to immigration regulations, academic and cultural adjustment, and employment. The International Student Advisors in the IPO assist the International Student Association in coordinating cultural and recreational activities.

NOTE: Due to recent changes in INS regulations, new international students MUST attend the International Programs orientation held prior to the beginning of classes. All continuing international students MUST visit the IPO within the first 30 days of classes to update their contact information and for the IPO to verify their presence on campus. Failure to do so may result in legal action and possible deportation.

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

International Programs Office, 1136 Euclid Avenue, 208 426-3652
http://www.boisestate.edu/international/

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, mentoring, a resource lending library, and the sexual assault crisis response network.

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, Administration Building, Room 111, 208 426-3744

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/

Extended Studies

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, two 8-week sessions, and a 10-week session. A variety of special workshops and conferences are also offered each summer. The *Boise State University Summer Class Schedule* is available to students each March. 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 Boise State full-time and adjunct faculty. For more information, call 208 426-1709.

Distance Education

Boise State offers classes through technologically mediated distance education delivery methods. Graduate classes are taught via the following:

1. the Internet,
2. computer-based multimedia, and
3. videoconferencing.

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

Master of Science in Instructional & Performance Technology (Online Option): The Department of Instructional & Performance Technology has been in the forefront of technology-delivered education by offering its internationally recognized Master of Science degree online since 1989. This degree is intended to enhance careers in the areas of instructional design, training, training management, human resources, performance improvement, e-learning, and distance education. In addition to accessibility, quality instruction, and state-of-the-art curriculum, a major benefit of the program is the wealth of expertise of its geographically diverse faculty and students. For more information, call 208 424-5135 or 208 426-1312 or access the web site at http://*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 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 three 12-credit sequences over the Internet which, when completed, provide them with graduate certificates recognizing their advanced technology skills. For more information call 208 426-1966 or access the Web site at *http://edtech.boisestate.edu/online*.

Professional Education/In-Service Program for Teachers

Meeting the needs of educators in the 10 southwest counties of Idaho, Boise State University's Professional Education 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 Boise State University College of Education to ensure that all course requests meet accreditation guidelines established by the Northwest Association, Commission of Colleges. Most of the classes are conducted off campus, frequently outside of Boise. For more information, call 208 426-1709.

Note: Credits earned for professional education/in-service workshops cannot be applied to a graduate degree.

Center for Professional Development

Established in response to the needs of local business, government agencies, and other public and private sector organizations, the Center provides a variety of training programs to meet the needs for employees' professional development. For more information, call 208 426-1709.

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

The International Programs Office provides students with the opportunity to participate in academic programs at universities throughout the world. There are summer, semester, and academic year options for which students can receive credit at Boise State University with predeparture planning and course approval. The opportunities are affordable (with both federal financial aid and scholarships available), students continue to earn credit toward their degrees, and there are sites in both English-speaking countries and those where students can enhance their foreign language skills.

Graduate students significantly benefit from an international experience: gaining the ability to view their academic field and research interests from a variety of perspectives, potentially seeing and experiencing what they are studying at a personal level that is not possible in Boise, enhancing their cross-cultural

communication skills, increasing their self-awareness and understanding of American culture, and developing new research or professional interests that may originate while learning about other cultures. Additionally, graduates with international experience typically have a distinct advantage in the job market.

For more information about the various study abroad opportunities available, please contact the International Programs Office at 208 426-3652.

Intensive English Program

Boise State's Intensive English Program offers 20 hours per week of classroom instruction and field experiences. The program is organized into two 8-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 most 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:

Boise State University Canyon County Campus
2407 Caldwell Boulevard, Nampa, ID 83651
208 426-4700

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

If you have questions regarding Extended Studies programs, please contact:

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

Graduate Programs

Master of Science in Accountancy

College of Business and Economics
Business Building, Room 318
Telephone 208 426-1126
FAX 208 426-1135
http://cobe.boisestate.edu/graduate
e-mail: ranchust@boisestate.edu

Program Information: J. Renee Anchustegui
Graduate Studies Director: Kirk Smith
Full Graduate Faculty: Paul Bahnson, Denise M. English, Thomas J. English, David R. Koeppen, William C. Lathen, E. Shawn Novak
Adjunct Graduate Faculty: Frank Ilett Jr.

General Information

The Master of Science in Accountancy is designed to provide individuals, seeking to enhance their professional competence, the skills necessary to offer value-added services. The program builds upon student's previously acquired knowledge and skills acquired in the undergraduate program and focuses on providing value-added services and solving real world business problems.

This degree program is designed to serve both professionals looking to expand their accounting knowledge and traditional undergraduate students seeking to complete the CPA requirements through the acquisition of a graduate degree. The program will serve the accounting profession by preparing accounting professionals to offer value-added services to their clients and employers.

The Master of Science in Accountancy, Taxation is designed to provide the curriculum and forum where individuals can obtain focused instruction in advanced taxation issues. Similar to the Master of Science in Accountancy degree, the Master of Science in Accountancy, Taxation degree builds upon the student's previously acquired knowledge and provides the skills necessary to provide value added services in the complex taxation environment.

This program will fulfill the needs of those individuals that desire to specialize in taxation (in addition to the objectives of the Master of Science in Accountancy). It serves Business professionals that desire to expand their knowledge in Taxation and value-added services as well as traditional students that desire an entry level position in the tax area.

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 15 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. Listserv instructions and a link are at http://cobe.boisestate.edu/graduate.

Application and Admission Requirements

Application for admission, fees, and transcripts should be sent to Graduate Admission and Degree Services, Room 141, Math/Geosciences Building, Boise State University, 1910 University Drive, Boise, ID 83725-1110. All other materials should be sent to the Business Graduate Studies Office, B318.

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. Applicants to the MSA must complete all accounting classes required for an undergraduate degree in accountancy in addition to 15 credit hours of coursework from the Boise State College of Business undergraduate core. 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 Graduate Admission and Degree Services 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 Boise State University 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 Boise State'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.

Complete application packets must be received no later than:

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.	
Accountancy/Taxation Courses Select From: 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 Business Valuation .....3 ACCT 516 Financial Statement Analysis .....3 ACCT 517 Environmental 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	21

—continued—

Master of Science in Accountancy (continued)

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 ACCT 579 Personal Financial Planning .....3 ACCT 590 Practicum/Internship 3	
Non-Accountancy Electives Electives chosen from non-accountancy graduate courses.	9
TOTAL	**30**
Non-Accountancy Electives must be approved by the student's graduate advisor. Business Essentials 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).	

Master of Science in Accountancy, Taxation

Course Number and Title	Credits
The MSAT degree requires a minimum of 30 hours.	
Taxation Courses Selections From: ACCT 502 Advanced Tax Topics .....3 ACCT 515 Business Valuation .....3 ACCT 517 Environmental 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 ACCT 579 Personal Financial Planning .....3 ACCT 590 Practicum/Internship 3	15-21
Accountancy Electives Selections From: ACCT 505 Perspectives in Auditing .....3 ACCT 510 Advanced Financial Reporting .....3 ACCT 512 Financial Reporting Theory .....3 ACCT 516 Financial Statement Analysis 3	0-6
Subtotal Taxation and Accountancy Classes	21

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Master of Science in Accountancy (continued)	
Non-Accountancy Electives: Electives chosen from non-accountancy graduate courses.	9
TOTAL	**30**
Non-Accountancy Electives must be approved by the student's graduate advisor. Business Essentials 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).	

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 BUSINESS VALUATION (3-0-3)(F/S). Study of the theory and practice of financial statement analysis and business valuation. Methods of fundamental analysis and business valuation are examined in detail and applied in problems, cases and projects.

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 PERSONAL FINANCIAL PLANNING (3-0-3)(F). The course focuses on the tools to help individuals reach their personal financial goals. There will be five main areas of emphasis: investments,

insurance coverage/asset protection, income tax planning, retirement planning and estate planning. The areas will be covered in the personal finance framework.

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

Master of Arts in Art

Department of Art
Liberal Arts Building, Room 252
Telephone 208 426-3450 or 426-4070
e-mail: artdept@boisestate.edu
http://www.boisestate.edu/art/

Graduate Program Director: Cheryl Shurtleff-Young
Department Chair: Richard Young
Full Graduate Faculty: Jim Blankenship, James Budde, Heather Hanlon, Gary Rosine, Cheryl Shurtleff-Young, Brent Smith, John Taye, Ron Taylor, Lee Ann Turner, Richard Young
Associate Graduate Faculty: Stephanie Bacon, Laurie Blakeslee, Francis Fox, John Francis, Larry McNeil, Tudor Mitroi, Kimiko Miyoshi, Anika Smulovitz
Adjunct Graduate Faculty: Karen Brown, Kathleen Keys, Nick Newman

General Information

The Department of Art offers two distinct Master of Arts in Art degrees. The program leading to the Master of Arts in Art, Art Education degree is designed to meet the needs of specialists in art education. Coursework focuses on advanced curriculum development, an examination of contemporary issues relating to art and education, and advanced study of art history and studio practices. The program leading to the Master of Arts in Art, Visual Arts degree is a minimum one-year intensive studio experience designed for visual artists. Coursework focuses on both the theory and practice of the student's chosen discipline.

Teaching Assistantships are awarded competitively. Assistantships include a nonresident tuition waiver, a resident fee waiver, and a stipend. Assistants must enroll for a minimum of nine credit hours each semester and meet any other requirements as set forth by the Graduate College. Applications are available on the website and must be received by February 15.

Admission Requirements and Application Procedures

Admission Requirements. An applicant must satisfy the minimum admission requirements of the Graduate College (see *Graduate Admission Regulations* in this catalog). Admission is competitive and the achievement of minimum requirements does not guarantee admission.

Application Procedures. A prospective student must follow the general graduate application procedure for degree-seeking students (see *Applying as a Degree-Seeking Student* in this catalog.)

The prospective M.A. in Art, Art Education student must also submit the following to the Department of Art graduate program director by February 15 to be considered for Fall admission, or by October 1 to be considered for Spring admission:

A. A statement of purpose giving the educational and professional background of the student and his or her motivation to pursue the graduate program, including 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) labeled slides of a recent body of work with an accompanying artist statement and slide list.
D. An example of academic or professional writing.
E. Evidence of any public or private teaching experience (three years minimum).
F. Evidence of successful completion of basic K-12 art education methods courses, both K-8 and 6-12, or their equivalents.
G. Self-addressed, stamped envelope.

The prospective M.A. in Art, Visual Arts student must also submit the following to the Department of Art graduate program director by February 15 (**Fall admission only**):

A. A statement of purpose giving the educational and professional background of the student and his or her motivation to pursue the graduate program, including professional objectives and philosophy of art and how these will be furthered by graduate study.
B. Three letters of recommendation.
C. A minimum of twenty (20) labeled slides of a recent body of work with an accompanying artist statement and slide list.
D. Self-addressed, stamped envelope.

Degree Requirements

Master of Arts in Art, Art Education. Students must complete at least 33 graduate credits distributed as shown in the degree requirements table. At least 22 of the 33 credits used to meet the degree requirements must be earned at Boise State University since admission to the program.

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

Master of Arts in Art, Visual Arts. Students must complete at least 30 graduate credits distributed as shown in the degree requirements table. At least 20 of the 30 credits used to meet the degree requirements must be earned at Boise State University since admission to the program.

Master of Arts in Art, Visual Art

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.

ART 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.

ART 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 533 CONTEMPORARY IDEAS IN ART METALS (0-6-3) (F/S). Advanced exploration of design issues and techniques related to conceptual problems. Content varies by term with a focus on individual processes or topics. Repeatable for credit. PREREQ: ART 221 and 222 or PERM/ISNT.

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 535 STUDIO IN ART METALS (0-6-3)(F/S). Individual problems in Art Metals. Content varies by term with a focus on individual processes or topics. Repeatable for credit. PREREQ: 9 credits of Art 307 and/or Art 533 or PERM/INST.

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.

ART 578 SELECTED TOPICS - ART EDUCATION
ART 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 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 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 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 BC-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). Intermediate study of photographic techniques; emphasis on the creative approach to picture-mtaking and printing. Adjustable camera required. PREREQ: ART 251.

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 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 444G ADVANCED PHOTOGRAPHY, COLOR PRINTING (2-4-3)(F/S). Individual problems in photography. May be repeated for credit. PREREQ: ART 341 and ART 344.

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

Department of Biology
Science/Nursing Building, Room 223
Telephone 208 426-3262
FAX 208 426-4267
http://www.boisestate.edu/biology/
e-mail: jbeltho@boisestate.edu

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

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 Admission and Degree Services, Boise State University, 1910 University Drive, Boise, ID 83725-1110.
   - A graduate application along with the 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 Graduate Admission and Degree Services.
   - Have Graduate Record Exam scores forwarded to Graduate Admission and Degree Services.
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 3.0 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 may be 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 Boise State University 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 candidate's 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 a 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 seven years. M.S. 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 a total of 9 credits for approved courses outside the biology department, workshops, practicum/internship, or directed research credits. Of those 9 credits, a maximum of 6 may be of a combination of directed research, workshops, and practicum/internship. Directed research, workshop, and practicum/internship 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 a total of 9 credits for approved courses outside the biology department, workshops, practicum/internship, or directed research credits. Of those 9 credits, a maximum of 6 may be of a combination of directed research, workshops, and practicum/internship. Directed research, workshop, and practicum/internship 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 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)(Offered odd-numbered years). Medically important bacteria, rickettsia, and chlamydia are surveyed with emphasis on their pathogenicity, host-parasite relationships, and the clinical and diagnostic aspects of the diseases they produce in humans and animals. PREREQ: BIOL 205 or BIOL 303 or PERM/INST.

BIOL 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. 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. Graded Pass/Fail. 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 509 MOLECULAR ECOLOGY AND PHYLOGEOGRAPHY (3-0-3)(F)(Offered odd-numbered years). Theory and methodologies used in molecular ecology and phylogeography. Molecular genetic markers currently used to study ecological phenomena (e.g., mating systems, parentage and kinship, population structure, gene flow, dispersal, natural selection). Emphasis on an hypothesis-testing approach. Determination of which molecular techniques are most appropriate for specific research questions. PREREQ: BIOL 323 and BIOL 343.

BIOL 517 SPECIES AND SPECIATION (3-0-3)(F)(Offered odd-numbered years). 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. PREREQ: BIOL 401-401G (or equivalent) or PERM/INST.

BIOL 522 CONSERVATION BIOLOGY (3-0-3)(S)(Offered odd-numbered years). An introduction to the field of conservation biology, the applied science concerned with understanding the effects of human activities on natural biological systems and with developing practical approaches to prevent the loss of biodiversity. Topics covered will include conservation genetics, demographic analysis, habitat degradation, overexploitation, and restoration ecology. Discussion of the social, political, and economic aspects of conservation biology. 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)(Offered odd-numbered years). The biology and ecology of flowing waters is emphasized; their biota, management, and ecology at both the community and ecosystem level will be discussed. PREREQ: BIOL 323 or PERM/INST.

BIOL 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)(Offered odd-numbered years). 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. PREREQ: PERM/INST.

BIOL 531 PHARMACOLOGY (3-0-3)(F). Basic pharmacological principles including mechanisms of drug action in relation both to drug-receptor interactions and to the operation of physiological and biochemical systems. Pharmacokinetics, metabolism, receptor theory and an examination of major classes of therapeutic agents used in humans. PREREQ: BIOL 227-228 or BIOL 191-192, and BIOL 301.

BIOL 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 543 ADVANCED DEVELOPMENTAL BIOLOGY (1-6-2)(F) (Offered odd-numbered years). Application of molecular and cellular methods to current topics in developmental biology. Analysis of current literature in biology with emphasis on the coordinated regulation of gene expression, cellular differentiation and migration. Laboratory studies include model systems such as chick, zebrafish, sea urchin and mouse, utilizing cell/tissue culture, histology, immunohistochemistry, RT-PCR, protein purification, SDS-PAGE, western blot and others. Previous enrollment in BIOL 344 and ZOOL 351 recommended.

BIOL 546 BIOINFORMATICS (2-3-3)(F). Practical training in bioinformatics methods: accessing sequence data bases, BLAST tools, analysis of nucleic acid and protein sequences, detection of motifs and domains of proteins, phylogenetic analysis, gene arrays, and gene mapping. PREREQ: BIOL 343 or PERM/INST.

BIOL 551 DEVELOPMENTAL BIOLOGY (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 with emphasis on molecular and cellular mechanisms. Laboratory studies of sea urchin, frog, chick, and pig development. PREREQ: BIOL 191-192 or PERM/INST.

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)(Offered odd-numbered years). A study of the structure and development of vascular plant tissues, regions, and organs. Emphasis will be placed on the Angiosperms. Laboratory work includes preparation of hand and paraffin sections, staining, and observation of plant tissues using various types of light microscopy. PREREQ: BIOL 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)(Offered odd-numbered years). A study of plant biophysical and biochemical processes. Includes coverage of cell, tissue, and organ function, photosynthesis, water relations, mineral nutrition, transport mechanisms, growth and development, secondary metabolites, and plant responses to the environment. PREREQ: BIOL 203 and CHEM 317 or PERM/INST.

BOT 524 PLANT COMMUNITY ECOLOGY (3-3-4)(F)(Offered even-numbered years). A study of the properties, structure, method of analysis, classification, and dynamic nature of plant communities. Topics for discussion will include the strengths and weaknesses of various sampling techniques, the role of disturbance events and succession on community structure, and the role of biological 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. PREREQ: BIOL 323 or PERM/INST.

BOT 541 PLANT DEVELOPMENTAL BIOLOGY (3-3-4)(S) (Offered even-numbered years). A description of plant development from a molecular and cellular perspective. Topics discussed include gene expression and cell 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. 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. Field trips to collect and identify local species. PREREQ: BIOL 191-192 or PERM/INST.

ZOOL 341G ORNITHOLOGY (2-3-3)(S)(Offered odd-numbered years). Birds as examples of biological principles: classification, identification, ecology, behavior, life histories,

distribution, and adaptations of birds. Two weekend field trips. PREREQ: ZOOL 230, 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 403G HEAD AND NECK ANATOMY (1-3-2)(F). Use of human cadavers to study prosections of head and neck with emphasis on clinical relevance. Integument, osteology, myology, circulatory systems, lymphatics, oral and dental tissues, neuroanatomy, cranial nerves, general innervation, and salivary glands. PREREQ: BIOL 191-192 or BIOL 227-228 or PERM/INST.

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

ZOOL 501 HUMAN PHYSIOLOGY (3-3-4)(S). Functional aspects of human tissues and organ systems with emphasis on regulatory and homeostatic mechanisms. PREREQ: BIOL 301 or PERM/INST.

ZOOL 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)(Offered odd-numbered years). 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. PREREQ: Graduate standing or PERM/INST.

ZOOL 525 AQUATIC ENTOMOLOGY (3-3-4)(F)(Offered even-numbered years). The taxonomy and ecology of the insects most commonly encountered in freshwater environments. Emphasis on identification and biology of individual taxa, aquatic insect community ecology, environmental pollution assessment, and natural resource management. PREREQ: BIOL 323.

ZOOL 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. PREREQ: BIOL 323 or PERM/INST.

ZOOL 535 BEHAVIORAL ENDOCRINOLOGY (3-0-3)(F) (Offered even-numbered years). 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. PREREQ: Graduate standing 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 318
Telephone 208 426-1126
FAX 208 426-1135
http://cobe.boisestate.edu/graduate
e-mail: ranchust@boisestate.edu

Program Information: J. Renee Anchustegui
Graduate Studies Director:

Accountancy

Full Graduate Faculty: Paul Bahnson, Denise M. English, Thomas J. English, David R. Koeppen, William C. Lathen, E. Shawn Novak
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, Sharon Tabor

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
Associate Graduate Faculty: Christopher Baughn, Mark Buchanan, Norris Krueger, James E. Wanek, Keith Ward

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, 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 15; Spring - September 20.

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. Listserv instructions and a link are at http://cobe.boisestate.edu/graduate.

Application and Admission Requirements

Application for admission, transcripts, and fees should be sent to the Graduate Admission and Degree Services, Room 141, Math/Geosciences Building, Boise State University, 1910 University Drive, Boise, ID 83725-1110. All other admission materials required for the MBA should be sent to the Business Graduate Studies Office, Room B 318.

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 detailed professional resume 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 enrollment in 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.

Complete application packets must be received no later than:

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 37 semester credit hours and a maximum of 49 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 includes accounting and finance, information technology, or high-tech marketing, and can expand beyond business to such areas as health policy or public administration.

Master of Business Administration	
Course Number and Title	**Credits**
Business Essentials Courses: The business essentials 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 522 Accounting and Financial Analysis .....3 MBA 527 Creation and Distribution of Goods and Services.....3	12
Advanced Courses: MBA 531 Strategic Perspectives .....1 MBA 532 Accounting For Decision Making and Control.....3 MBA 533 Advanced Operations Management.....3 MBA 534 Information Technology for Managers .....3 MBA 535 Legal Issues in Business Relationships .....3 MBA 536 Global Economic & Business Analysis.....3 MBA 537 Managing People in Organizations.....2 MBA 538 Organizational Issues .....2 MBA 539 Advanced Marketing Management.....3 MBA 545 Advanced Financial Management.....3 MBA 546 Strategic Management.....2	28
Electives: ECON 560 Economics of Public Policy.....3 MGMT 541 Human Resource Management.....3 MGMT 561 Marketing High-Technology Products.....3 MGMT 563 Customer Behavior .....3 MGMT 564 Internet Marketing Strategy .....3 MGMT 566 Customer Relationship Management.....3 MGMT 574 Financial Modeling .....3 MBA 580 Selected Topics - Accounting .....3 MBA 581 Selected Topics - Information Systems .....3 MBA 582 Selected Topics - Economics.....3 MBA 583 Selected Topics - Finance .....3 MBA 584 Selected Topics - Operations/ Production .....3 MBA 585 Selected Topics - Management.....3 MBA 586 Selected Topics - Marketing .....3 MBA 587 Selected Topics - International Business.....3 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	**37-49**

Course Offerings

MBA — MASTER OF BUSINESS

BUSINESS ESSENTIAL COURSES

MBA 512 BUSINESS STATISTICS (3-0-3)(F). Examines the use of statistics in business decision-making. Summarizing, analyzing, and presenting data to support managerial decisions will be emphasized. Topics may include descriptive statistics, inferential statistics, analysis of variance, regression analysis, forecasting, and nonparametric techniques.

MBA 514 ECONOMIC THEORY AND ANALYSIS (3-0-3)(S). 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 522 ACCOUNTING AND FINANCIAL ANALYSIS (3-0-3)(F). Introduces basic concepts, standards, and practices of financial reporting so students can read and understand published financial statements. Fundamentals of accounting and finance as it relates to developing a framework for analyzing a firm's investment and financing decisions are emphasized. Topics may include income statement and balance sheet preparation, as well as valuation and capital budgeting techniques.

MBA 527 CREATION AND DISTRIBUTION OF GOODS AND SERVICES (3-0-3)(S). An introduction to the creation and distribution of goods and services. Course integrates both marketing and operations management concepts and will discuss the activities associated with product pricing, product promotion, and the manufacturing and delivery of goods and services.

ADVANCED COURSES

MBA 531 STRATEGIC PERSPECTIVES (1-0-1)(F,S). Examines the five major forces transforming business: boundaries of the firm, market and competitive analysis, dynamics of developing and sustaining advantages, internal organization, major forces in the environment. MBA students should take MBA 531 the first semester of their advanced course work. PREREQ: MBA 512, MBA 514, MBA 522, MBA 527.

MBA 532 ACCOUNTING FOR DECISION MAKING AND CONTROL (3-0-3)(S). Explains how accounting concepts are used to manage costs and other aspects of a business to create profits. PREREQ: MBA 522 or equivalent. PREREQ/COREQ: MBA 531.

MBA 533 ADVANCED OPERATIONS MANAGEMENT (3-0-3)(F). Concepts and issues related to managing the operations function of an organization. Topics include forecasting, production planning, materials management, quality management, and supply chain management as they relate to developing a competitive opwerations strategy. The role of information technology as it relates to operations management and the relationships between operations and other business functional areas are also discussed. PREREQ: MBA 527 or equivalent.

MBA 534 INFORMATION TECHNOLOGY FOR MANAGERS (3-0-3)(S). Examines management's role in designing, implementing, and managing information systems, and the role of information and information technology for achieving a competitive advantage. PREREQ/COREQ: MBA 531.

MBA 535 LEGAL ISSUES IN BUSINESS RELATIONSHIPS (3-0-3)(S). Exposes future managers to the major legal issues involved in intellectual property, private and public equity financing, cyber law, and product liability. Emphasis will be on what managers should know in order to make decisions that will not trigger legal problems. PREREQ/COREQ: MBA 531.

MBA 536 GLOBAL ECONOMIC & BUSINESS ANALYSIS (3-0-3) (F). Analyzes the relationships between business and economic, ethical, legal, political, and social systems and the effects of these relationships on management decisions from both national and international perspectives. PREREQ: MBA 531, MBA 514, or equivalents.

MBA 537 MANAGING PEOPLE IN ORGANIZATIONS (2-0-2)(F). Provides an opportunity to acquire knowledge and refine basic skills for managing the flow of employees into, through, and out of organizations. Human resource planning, employee recruitment, selection, performance coaching, and appraisal topics will be covered in the context of how policies and decisions support and further a company's strategic goals. The impact of changing technology and demographics on "best" practices for managers dealing with employees will be discussed.

MBA 538 ORGANIZATIONAL ISSUES (2-0-2)(S). Application of behavioral science principles and skills in an organizational setting. Emphasis is on an interactionist perspective (individual, group, and organizational dynamics), towards understanding behavior in organizations. Topics include team building, motivation, leadership, problem solving, negotiation, and self-management. The course is geared towards managers and the application of concepts to experience. PREREQ/COREQ: MBA 531.

MBA 539 ADVANCED MARKETING MANAGEMENT (3-0-3)(F). Examines the best allocation of marketing resources in order to achieve the organization's strategic objectives. Focus is on understanding market reactions to current and anticipated marketing programs. Learn to recognize and how to capitalize upon new product opportunities while concurrently managing existing products. PREREQ: MBA 531, MBA 522, MBA 527, or equivalents.

MBA 545 ADVANCED FINANCIAL MANAGEMENT (3-0-3)(S). Reviews dynamic financial analysis with emphasis on the current practical applications and complexities of capital budgeting, arbitrage arguments, risk-return models and financing alternatives. PREREQ: MBA 514, MGA 522, or equivalents.

MBA 546 STRATEGIC MANAGEMENT (2-0-2)(F,S). Examines how organizations obtain and deploy resources within a changing environment to gain and sustain a competitive advantage. Topics include 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. Should be taken in the student's last semester of study. PREREQ: MBA 532, MBA 533, MBA 534, MBA 535, MBA 539.

ELECTIVES

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.

ECON 560 ECONOMICS OF PUBLIC POLICY (3-0-3) (Intermittent). Contribution of economic analysis to the justification, design and implementation of economic policy, especially as it relates to the market economy and the benefits and costs associated with government intervention. PREREQ: MBA 514.

MBA 561 MARKETING HIGH-TECHNOLOGY PRODUCTS (3-0-3)(F). This class will explore concepts and practices related to marketing the fast-paced environment of high-technology industries.

MBA 563 CUSTOMER BEHAVIOR (3-0-3)(F). Concepts in and analysis of consumer and group buying behavior, methods of measurement, and processes to guide decisions using this knowledge. Special emphasis will be placed on the buying high-tech products.

MBA 564 INTERNET MARKETING STRATEGY (3-0-3)(S). This course explores how the integration of Internet based technology is changing the business environment. Key topics covered in the class will include network infrastructure, Internet buyer behavior, integrated market communication, e-business model construction. Analysis, and valuation.

MBA 566 CUSTOMER RELATIONSHIP MANAGEMENT (3-0-3) (S). This course will focus on how marketing managers can use technology in customer relationship management (CRM). A key topic in the course will be the use of customer information files in managing communication to and from customers. PREREQ: MBA 512, MBA 527, or equivalents.

MBA 574 FINANCIAL MODELING (3-0-3)(F/S). Course introduces quantitative techniques useful for modeling and analyzing problems in finance. Topics include capital budgeting, dynamic financial planning models, portfolio optimization, and options. The emphasis is on formulating and solving models using a computer. PREREQ: MBA 545.

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 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

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

Public Administration

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 Science in Civil Engineering

Master of Engineering in Civil Engineering

Department of Civil Engineering
Engineering Technology Building, Room 201C
Telephone 208 426-3764
FAX 208 426-4800
e-mail: roxford@boisestate.edu
http://coen.boisestate.edu

Graduate Program Coordinator: Molly Gribb
Graduate Program Information: Rex Oxford
Department Chair: Stephen Affleck
Engineering Technology Building, Room 201C
Telephone 208 426-3575
Full Graduate Faculty: Molly Gribb, David Haws, George Murgel, Joseph Sener
Associate Graduate Faculty: Stephen Affleck, Robert Hamilton, Mandar Khanal

General Information

The Department of Civil Engineering offers two distinct graduate degree programs. The program leading to the Master of Science in Civil Engineering (M.S. CE) is a thesis-based program designed to prepare students for research and development and further study at the doctoral level. The program leading to the Master of Engineering in Civil Engineering (M.Engr. CE) is a non-thesis program with a focus on professional development.

Admission Requirements and Application Procedures

Admission Requirements. An applicant must satisfy the minimum admission requirements of the Graduate College. In addition, the applicant must hold a baccalaureate degree in civil engineering from an ABET-accredited program or a baccalaureate degree in a closely related field, and must follow the application procedures specified below. Admission is competitive and the achievement of minimum requirements does not guarantee admission.

Application Procedures. A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Applying as a Degree-Seeking Student in this catalog). The applicant must also (1) submit a statement of purpose to the graduate program coordinator of the Department of Civil Engineering, and (2) arrange to have GRE General Test scores submitted by the Educational Testing Service (www.ets.org) directly to Boise State University (code R4018). The statement of purpose should give the educational and professional background of the student and his or her motivation for graduate study including career goals. Applicants holding a baccalaureate degree from the College of Engineering of Boise State University are not required to submit GRE scores. International students must arrange to have three letters of recommendation submitted directly by the references to the Boise State University International Admissions Office. Once the applicant's file is complete, it will be evaluated by the Civil Engineering Graduate Studies Committee and an admission recommendation (regular, provisional, or denial) will be forwarded to the Dean of the Graduate College. In order to ensure proper mentoring of all graduate students, a recommendation for regular or provisional admission will not be forwarded unless a faculty member of the Department of Civil Engineering is available to serve as the major advisor. The graduate dean will make the final admission decision and notify the applicant and the Civil Engineering Graduate Studies Committee.

Advisor and Supervisory Committee

The Civil Engineering Graduate Studies Committee will assign a supervisory committee (including a major advisor who serves as chair) for each admitted student. The role of the supervisory committee is to guide the student in all aspects of his or her graduate study.

Degree Requirements

Master of Science in Civil Engineering. Students must complete at least 30 graduate credits distributed as shown in the degree requirements table. A written thesis proposal and oral presentation to the supervisory committee is required prior to the completion of 15 credits applicable to the degree requirements. Work on the thesis can only be undertaken after approval of the thesis proposal by the supervisory committee. The thesis must constitute an original contribution to knowledge in civil engineering and must be successfully defended at a final oral examination. All work directly related to the thesis must be represented by at least 6 credits of CE 593.

Master of Science in Civil Engineering

Course Number and Title	Credits
Graduate CE Courses Graduate courses in civil engineering; all courses to be selected with student input and approved by the supervisory committee.	15-24
Other Graduate Courses Graduate courses in civil engineering or a related field; all courses to be selected with student input and approved by the supervisory committee. 0-9	0-9
Thesis CE 593 Thesis (P/F)	6
TOTAL	**30**

Master of Engineering in Civil Engineering. Students must complete at least 31 graduate credits distributed as shown in the degree requirements table. A maximum of 3 credits of CE 696 Directed Research may be applied to meet the degree requirements. The comprehensive examination cannot be

attempted prior to the last semester of the program. If the comprehensive examination is failed on the first attempt, then the student will be permitted a second attempt. Failure on the second attempt will result in dismissal from the program.

Master of Engineering in Civil Engineering

Course Number and Title	Credits
Graduate CE Courses Graduate courses in civil engineering; all courses to be selected with student input and approved by the supervisory committee.	18-30
Other Graduate Courses Graduate courses in civil engineering or a related field; all courses to be selected with student input and approved by the supervisory committee.	0-12
Comprehensive Examination CE 600 Assessment (P/F)	1
TOTAL	**31**

Special Rule on Transfer Credit. The normal transfer credit policies of the Graduate College hold except that up to 15 transfer credits earned in combination at the University of Idaho and Idaho State University may be applied to either degree program (M.S. CE or M.Engr. CE) with the approval of the supervisory committee.

Course Offerings

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

CE CIVIL ENGINEERING

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 512 HYDROGEOLOGY (GEOL 512)(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: MATH 170.

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: CHEM 112.

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 530 VADOSE ZONE HYDROLOGY (GEOL 530)(3-0-3)(F). Laboratory and field methods for characterizing physical and hydraulic properties of soils, solution of variably saturated flow problems using analytical and numerical techniques. Computer simulations of flow and transport in variably saturated soils. Course may be taken for either Geology or Civil Engineering credit, but not both. PREREQ: CE 412, GEOL 412, CE 512, or GEOL 512 or PERM/INST.

CE 533 CONTAMINANT TRANSPORT (GEOL 533)(3-0-3)(S). The fate and transport of dissolved solutes and non-aqueous phase liquids in groundwater systems. Students will analyze field data and develop conceptual models for contaminated sites. The role of engineers and hydrologists in environmental litigation will be addressed through case studies. PREREQ: CE 412 or CE 512 or GEOL 412 or GEOL 512, or PERM/INST.

CE 538 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 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 553 STRUCTURES II (3-0-3)(S)(Odd Years). Analysis and design of structural systems. Stiffness method including the development of element properties, coordinate transformations, and global analysis theory. Three-dimensional building systems and an introduction to the Finite Element Method. PREREQ: CE 352.

CE 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, 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 retional 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.

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.

CE 623 ADVANCED HYDROGEOLOGY (GEOL 623, GEOPH 623)(3-0-3)(F). Treatment of groundwater occurrence and flow, theory fundamental mechanisms, hydrologic parameters, flow regimes and systems, geologic controls. Course may be taken for credit in Geology, Geophysics, or Civil Engineering, but not for more than one department. PREREQ: MATH 275, MATH 333, and GEOL 412 or GEOL 512 or CE 412 or CE 512 or PERM/INST.

Master of Arts in Communication

Department of Communication
Communication Building, Room 111
Telephone 208 426-3327
FAX 208 426-1069
http://comm.boisestate.edu
e-mail: rmoore@boisestate.edu

Department Chair and Graduate Program Coordinator: Rick Moore
Full Graduate Faculty: Peter Lutze, Suzanne McCorkle, Ed McLuskie, Janet Mills, Rick Moore, Dan Morris, Ben Parker, Robert Rudd, Laurel Traynowicz, 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 two-year course plan on the department's web site for specific content regarding COMM 505, COMM 506, and COMM 507.

The M.A. degree in Communication requires a minimum 31 credits, which must include COMM 598, fifteen credits from COMM 505, COMM 506, and COMM 507. Beyond these requirements, 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 course.
4. Complete a Communication Department Application Form, including:
   A. An essay explaining 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 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 Admission and Degree Services. 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 598 Graduate Seminar (May be repeated once for credit toward degree)	1-2
COMM 591 Project or COMM 593 Thesis	3
COMM 505 Selected Topics in Theory and Philosophy COMM 506 Selected Topics in Interpersonal Communication COMM 507 Selected Topics in Organizational Communication	15
Additional Electives (selected from within or outside the department)	12
TOTAL	**31-32**

Course Offerings

COMM — COMMUNICATION

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 nine 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 nine 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 Engineering

Master of Engineering in Computer Engineering

Department of Electrical and Computer Engineering
Micron Engineering Center, Room 302J
Telephone 208 426-5715
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e-mail: roxford@boisestate.edu

Graduate Program Coordinator: Nader Rafla
Graduate Program Information: Rex Oxford
Department Chair: R. Jacob Baker
Full Graduate Faculty: Said Ahmed-Zaid, R. Jacob Baker, Gary Erickson, William Knowlton, John Owens, Nader Rafla, Cheryl Schrader
Associate Graduate Faculty: Elisa Barney-Smith, Joseph Hartman, Jeff Jessing, Sin Ming Loo, Stephen Parke

General Information

The Department of Electrical and Computer Engineering offers two distinct computer engineering graduate degree programs. The program leading to the Master of Science in Computer Engineering (M.S. COMPE) is a thesis-based program designed to prepare students for research and development and further study at the doctoral level The program leading to the Master of Engineering in Computer Engineering (M.Engr. COMPE) is a non-thesis program with a focus on professional development.

Admission Requirements and Application Procedures

Admission Requirements. An applicant must satisfy the minimum admission requirements of the Graduate College. In addition, the applicant must hold a baccalaureate degree in computer or electrical engineering from an ABET-accredited program or a baccalaureate degree in a closely related field, and must follow the application procedures specified below. Admission is competitive and the achievement of minimum requirements does not guarantee admission.

Application Procedures. A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Applying as a Degree-Seeking Student in this catalog). The applicant must also arrange to have GRE General Test scores submitted by the

Educational Testing Service (www.ets.org) directly to Boise State University (code R4018). Applicants holding a baccalaureate degree from the College of Engineering of Boise State University are not required to submit GRE scores. International applicants must submit a statement of purpose to the graduate program coordinator and arrange for three letters of recommendation to be submitted directly by the references to the Boise State University International Admissions Office. The statement of purpose should give the educational and professional background of the student and his or her motivation for graduate study including career goals. Once the applicant's file is complete, it will be evaluated by the Computer Engineering Graduate Studies Committee and an admission recommendation (regular, provisional, or denial) will be forwarded to the Dean of the Graduate College. In order to ensure proper mentoring of all graduate students, a recommendation for regular or provisional admission will not be forwarded unless a faculty member of the Department of Electrical and Computer Engineering is available to serve as the major advisor. The graduate dean will make the final admission decision and notify the applicant and the Computer Engineering Graduate Studies Committee.

Advisor and Supervisory Committee

For a student admitted to the M.S. COMPE program, the Computer Engineering Graduate Studies Committee will initiate the assignment of a supervisory committee including a major advisor who serves as chair. The role of the supervisory committee is to guide the student in all aspects of his or her graduate study. For a student admitted to the M.Engr. COMPE program, the Computer Engineering Graduate Studies Committee will appoint a major advisor; student mentoring will be provided by the major advisor and the chair of the department.

Degree Requirements

Master of Science in Computer Engineering. Students must complete at least 30 graduate credits distributed as shown in the degree requirements table. A written thesis proposal with oral presentation to the supervisory committee is required prior to the completion of 15 credits applicable to the degree requirements. Work on the thesis can only be undertaken after approval of the thesis proposal by the supervisory committee. The thesis must constitute an original contribution to knowledge in computer engineering and must be successfully defended at a final oral examination. All work directly related to the thesis must be represented by at least 6 credits of COMPE 593.

Master of Science in Computer Engineering

Course Number and Title	Credits
Graduate Courses Related to Computer Engineering Graduate courses in computer engineering; computer science, or electrical engineering as listed below; all courses to be selected with student input and approved by the supervisory committee. COMPE 560 Advanced Digital Hardware Design..3 COMPE 561 Digital Systems Testing and Testable Design.....3 COMPE 562 Advanced Computer Architecture ..3 COMPE 563 ASIC Chip Design.....3 COMPE 564 Large Scale Distributed Systems Design .....3 COMPE 565 Systems for Multimedia Processing ....3 COMPSCI 521 Design and Analysis of Algorithms..3 COMPSCI 525 Network Protocols and Programming .....3 COMPSCI 530 Parallel and Distributed Computing .....3 COMPSCI 554 Advanced Operating Systems .....3 COMPSCI 561 Theory of Computation .....3 COMPSCI 571 Software Engineering.....3 EE 510 IC Physical Design.....3 EE 518 Memory Circuit Design .....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 554 Digital Signal Processing .....3 EE 556 Pattern Recognition .....3 EE 557 Digital Image Processing .....3 EE 564 Robotics and Automated Systems 3	15-24
Other Graduate Courses Graduate courses in computer engineering or a related field; all courses to be selected with student input and approved by the supervisory committee.	0-9
Thesis COMPE 593 Thesis (P/F)	6
TOTAL	**30**

Master of Engineering in Computer Engineering. Students must complete at least 31 graduate credits distributed as shown in the degree requirements table. A maximum of 3 credits of COMPE 696 Directed Research may be applied to meet the degree requirements. The comprehensive examination cannot be attempted prior to the last semester of

the program. If the comprehensive examination is failed on the first attempt, then the student will be permitted a second attempt. Failure on the second attempt will result in dismissal from the program.

Master of Engineering in Computer Engineering

Course Number and Title	Credits
Graduate Courses Related to Computer Engineering Graduate courses in computer engineering, computer science or electrical engineering as listed below; all courses to be selected with student input and approved by the supervisory committee. COMPE 560 Advanced Digital Hardware Design..3 COMPE 561 Digital Systems Testing and Testable Design.....3 COMPE 562 Advanced Computer Architecture ..3 COMPE 563 ASIC Chip Design.....3 COMPE 564 Large Scale Distributed Systems Design.....3 COMPE 565 Systems for Multimedia Processing..3 COMPSCI 521 Design and Analysis of Algorithms.....3 COMPSCI 525 Network Protocols and Programming.....3 COMPSCI 530 Parallel and Distributed Computing.....3 COMPSCI 554 Advanced Operating Systems.....3 COMPSCI 561 Theory of Computation.....3 COMPSCI 571 Software Engineering.....3 EE 510 IC Physical Design.....3 EE 518 Memory Circuit Design.....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 554 Digital Signal Processing.....3 EE 556 Pattern Recognition.....3 EE 557 Digital Image Processing.....3 EE 564 Robotics and Automated Systems.....3	18-30
Other Graduate Courses Graduate courses in computer engineering or a related field; all courses to be selected with student input and approved by the supervisory committee.	0-12
Comprehensive Examination CE 600 Assessment (P/F)	1
TOTAL	**31**

Special Rule on Transfer Credit. The normal transfer credit policies of the Graduate College hold except that up to 15 transfer credits earned in combination at the University of Idaho and Idaho State University may be applied to either degree program (M.S.COMPE or M.Engr. COMPE) with the approval of the supervisory committee.

Course Offerings

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

COMPE COMPUTER ENGINEERING

COMPE 560 ADVANCED DIGITAL HARDWARD 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 561 DIGITAL SYSTEM TESTING AND TESTABLE DESIGN (3-0-3)(F/S). In-depth theory and practice practice of fault analysis, teset 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 isues; processor and memory testing. Advance research issues, including topics on mixed-signal testing are also discussed. PREREQ: EE 430, and EE 410.

COMPE 562 ADVANCED COMPUTER ARCHITECTURE (3-0-3) (F/S). Study of up-to-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 563 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, simulation, functional and timing verification issues, synthesis, design optimization, testing, and evaluation. The course supports individual and group projects to build ASICs implementing RISCs/DSPs/Superscalars/Fuzzy Logic based systems using standard ASIC design CAD tools. PREREQ: EE 430 and EE 432.

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.

COMPE 565 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.

COMPSCI COMPUTER SCIENCE

COMPSCI 521 DESIGN AND ANALYSIS OF ALGORITHMS (3-0-3)(F/S). 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 or PERM/INST.

COMPSCI 525 NETWORK PROTOCOLS AND PROGRAMMING (3-0-3)(F/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 453 or PERM/INST.

COMPSCI 530 PARALLEL COMPUTING (4-0-4)(F). Motivation for parallel computation and survey of different models. Fundamental techniques used in parallel algorithms. Implementation on parallel machines and simulations on clusters of workstations. Distributed computing versus parallel computing. Models for distributed computing. Examples of distributed programming environments. PREREQ: COMPSCI 242 or PERM/INST.

COMPSCI 554 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 453 or PERM/INST.

COMPSCI 561 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 571 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 225 and MATH 187 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 518 MEMORY CIRCUIT DESIGN (3-0-3)(F/S)(Alternate years). Transistor level design of memory circuits. Memory technologies including DRAM, Flash, MRAM, Glass-based, and SRAM will be discussed. The course will be a practical introduction to the design of memory circuits. PREREQ: EE 510.

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 230 and either 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). 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.

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 350.

EE 556 PATTERN RECOGNITION (3-0-3)(S)(Alternate years). Basic concepts of statistical and neural pattern recognition. Structure of pattern classification problems. Mathematics of statistical decision theory; multivariate probability functions, discriminant, parametric and nonparametric techniques. Bayesian and maximum likelihood estimation, feature selection, dimensionality reduction, neural network recognition and clustering. PREREQ: COMPSCI 117 or COMPSCI 125, and either MATH 360 or MATH 361.

EE 557 DIGITAL IMAGE PROCESSING (3-0-3)(S)(Alternate years). 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: EE 350, and either COMPSCI 117 or COMPSCI 125, 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 360 or PERM/INST.

Master of Science in Computer Science

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Department of Computer Science
Department Chair: John H. Griffin
Micron Engineering Center, Room 302J
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Graduate Program Committee Coordinator:
Alex Feldman
Full Graduate Faculty: James Buffenbarger, Alex Feldman, John Griffin, Amit Jain
Associate Graduate Faculty: Tim Anderson, Gang-Ryung Uh, 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 baccalaureate 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 are encouraged instead to pursue a second Bachelors degree in Computer Science. A second Bachelors degree in Computer Science involves taking the required undergraduate Computer Science classes and, in most cases, would require less time than the Masters.

The Computer Science Graduate Committee may grant provisional admission to exceptional students with limited computer science background.

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 College of Business and Economics at Boise State University.

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 Boise State University has two components: 1) admission to the Graduate College, which can occur with unclassified status and 2) 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 the application fee, to Graduate Admission and Degree Services. The application form is contained in the Boise State University Graduate Catalog, which may be obtained by contacting Graduate Admission and Degree Services 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 Graduate Admission and Degree Services.

To apply for admission to the graduate program in Computer Science, you will need to complete the following additional steps. A decision on admission into the masters program (for Regular or Provisional status) will not be considered prior to the completion of these steps.

- Take the GRE General test and and arrange for the scores to be sent to Graduate Admission and Degree Services.
- If you do not have a degree in Computer Science or Computer Engineering from a college or university with a CSAB/ABET accredited program in Computer Science, you must take the GRE Computer Science Subject test and arrange for the scores to be sent to Graduate Admission and Degree Services.
- 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 specific 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.

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.

The Master of Science in Computer Science degree program requires a minimum of 31 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. A student may not count, toward the M.S. degree, any credits applied (at Boise State or elsewhere) toward the completion of a baccalaureate 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.

A student not choosing the project (COMPSCI 591) or thesis (COMPSCI 593) option must pass COMPSCI 600 ASSESSMENT Comprehensive Examination (Pass/Fail). A second attempt to pass the Comprehensive Examination is permitted if necessary but failure on a second attempt will result in dismissal from the program.

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 553 Operating Systems 4	10
Additional approved computer science courses chosen from the following: (See Degree Requirements for restrictions.) COMPSCI 510 Databases.....4 COMPSCI 512 Advanced Topics in Databases.....3 COMPSCI 525 Network Protocols and Programming.....3 COMPSCI 530 Parallel Computing.....4 COMPSCI 541 Computer Architecture .....3 COMPSCI 546 Computer Security .....3 COMPSCI 551 Advanced Topics in Compilation.....3 COMPSCI 554 Advanced Operating Systems .....3 COMPSCI 557 Artificial Intelligence .....3 COMPSCI 561 Introduction to the Theory of Computation.....3 COMPSCI 562 Complexity Theory .....3 COMPSCI 567 Cryptology I .....3 COMPSCI 568 Cryptology II .....3 COMPSCI 571 Software Engineering .....3 COMPSCI 573 Advanced Software Engineering..3 COMPSCI 580-589 Selected Topics 3	15

—continued—

Master of Science in Computer Science (continued)

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 examinations (if required) COMPSCI 600 ASSESSMENT Comprehensive Examination (P/F) 1	0-1
TOTAL	**31-32**

Course Offerings

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

COMPSCI — COMPUTER SCIENCE

COMPSCI 510 DATABASES (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 512 ADVANCED TOPICS IN DATABASES (3-0-3)(F/S). 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 or COMPSCI 510 or PERM/INST.

COMPSCI 521 DESIGN AND ANALYSIS OF ALGORITHMS (3-0-3)(F/S). 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 or PERM/INST.

COMPSCI 525 NETWORK PROTOCOLS AND PROGRAMMING (3-0-3)(F/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 453 or PERM/INST.

COMPSCI 530 PARALLEL COMPUTING (4-0-4)(F). Motivation for parallel computation and survey of different models. Fundamental techniques used in parallel algorithms. Implementation on parallel machines and simulations on clusters of workstations. Distributed computing versus parallel computing. Models for distributed computing. Examples of distributed programming environments. PREREQ: COMPSCI 242 or PERM/INST.

COMPSCI 531 ADVANCED PROGRAMMING LANGUAGES (3-0-3)(F/S). 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 or PERM/INST.

COMPSCI 541 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. This course may be taken for either COMPSCI or EE credit, but not both. PREREQ: COMPSCI 117 or COMPSCI 125 and EE 332 or PERM/INST.

COMPSCI 546 COMPUTER SECURITY (3-0-3)(F/S). 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 453 or PERM/INST.

COMPSCI 551 ADVANCED TOPICS IN COMPILATION (3-0-3) (F/S). Code generation, analysis, and optimization. Projects will use a simple framework for performing analysis and optimizations at the SPARC assembly level. PREREQ: COMPSCI 451.

COMPSCI 553 OPERATING SYSTEMS (4-0-4)(F). Concepts and techniques for computer operating systems: process management, concurrency, inter-process communication, synchronization, scheduling, memory management, file systems and security. PREREQ: COMPSCI 225 and EE 332.

COMPSCI 554 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 453 or PERM/INST.

COMPSCI 557 ARTIFICIAL INTELLIGENCE (3-0-3)(F/S). 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 or PERM/INST.

COMPSCI 561 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 562 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 571 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 225 and MATH 187 or PERM/INST.

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.

COMPSCI 600 ASSESSMENT Comprehensive Examination (P/F) (1 Credit)

Master of Arts in Criminal Justice Administration

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Library, Room 166
Telephone 208 426-4114
FAX 208 426-4371
http://cja.boisestate.edu
e-mail: sraney@boisestate.edu

Graduate Program Coordinator: Andrew Giacomazzi
Department Chair: Craig Hemmens
Full Graduate Faculty: Andrew Giacomazzi, Craig Hemmens,Robert Marsh, David Mueller, Mary Stohr, Anthony Walsh
Associate Graduate Faculty: Lisa Growette Bostaph

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 take electives and write either a project or a thesis.

Master of Arts in Criminal Justice Administration

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 Graduate Admission and Degree Services at least one full semester prior to expected enrollment. At that time the student will pay the application fee, complete an application form and arrange to have transcripts for all schools of higher education previously attended sent directly to Boise State University Graduate Admission and Degree Services.

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 also 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 15 credits from CJA 501, CJA 502, CJA 503, CJA 504 and CJA 506. Students are also required to elect at least 9 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 CJA 506 Theories of Crime.....3	15
SEMINAR SERIES Students are required to complete nine 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 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	9
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.

CJA 506 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.

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 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. Graded Pass/Fail.

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. Graded Pass/Fail.

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 208 426-2390
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e-mail: dwilkins@boisestate.edu

Graduate Program Coordinator: David Wilkins
Department Chair: C. J. Northrup
Full Graduate Faculty: Warren Barrash, Michael D. Knoll, Mitchell Lyle, James P. McNamara, Paul Michaels, C. J. Northrup, John R. Pelton, Walter S. Snyder, Craig M. White, David Wilkins
Associate Graduate Faculty: Partha Routh, Mark Schmitz
Adjunct Graduate Faculty: John Bradford, William P. Clement, Thomas M. Clemo, Vladimir I. Davydov, Mary Donato, Virginia Gillerman, Verne Oberbeck, Kurt L. Othberg, Mark Seyfried, Edward Squires, Karen Viskupic

General Information

The curriculum for the Master of Science in Earth Science stresses current developments for teachers 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 student's deree program can be designed to allow flexibility in choosing course offerings. 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 and the student's supervisory committee.

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 dwilkins@boisestate.edu or http://earth.boisestate.edu.

Degree Requirements

Master of Science in Earth Science	
Course Number and Title	**Credits**
Required courses: Graduate Core EDUC 503 Fundamentals of Educational Research....3 EDUC 506 Issues in Education....3 EDUC 536 Curriculum Planning and Implementation....3 EDUC 537 Instructional Theory....3 EDUC 597 Core Special Topics....2	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
GEOL 591 Project or GEOL 593 Thesis A final comprehensive oral and/or written examination of the thesis or project is required	6
TOTAL	**33**

Credit Requirements:
All 33 credits must be taken for a letter grade, except for GEOL 591 Project or 593 Thesis credits which will be graded Pass/Fail.

Course Offerings

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

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.

GEOG GEOGRAPHY

GEOG 560 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (2-2-3)(F/S)(Lab fee). Designed for graduate students with no background in geographic information systems, or GIS, who wish to use these techniques in their research. Introduces the student to GIS concepts and principles. PREREQ: PERM/INST.

GEOG 561 REMOTE SENSING AND IMAGE PROCESSING (2-2-3)(F/S)(Lab fee). Introduces students to acquisition, interpretation, and analysis of digital imagery. Applications presented in different contexts including forestry, geology, ecology, and urban planning. Lab exercises focus on digital image processing, georeferencing, and image interpretation and analysis. PREREQ: GEOG 560 or PERM/INST.

GEOG 562 GEOGRAPHIC INFORMATION ANALYSIS (2-2-3) (F/S)(Lab fee). For graduate students with previous GIS experience or course work. Covers the operations and spatial analysis capabilities of a GIS, including spatial data models and data structure, spatial data

management, and the spatial statistical analyses used to solve various problems. PREREQ: GEOG 561 or PERM/INST.

GEOG 563 GEOSPATIAL PROJECT (1-6-3)(F/S)(Lab fee). For graduate students with extensive previous GIS experience or course work. Students will independently identify a problem, design, implement and complete a project utilizing geospatial techniques and analysis of that problem. This course and the project are intended to supplement thesis or dissertation research. PREREQ: GEOG 562 or PERM/INST.

GEOG 570 EARTH SYSTEM SCIENCE AND GLOBAL WARMING (GEOL 570)(3-0-3)(F/S). Survey of interactions among physical biogeochemical processes involved in climate and climate feed back. Explore in detail scenarios of global warming for the next century and their reliability. PREREQ: PERM/INST.

GEOL — GEOLOGY

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 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 512 HYDROGEOLOGY (CE 512)(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: MATH 170.

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 PHYSICAL HYDROLOGY (3-0-3)(S)(GEOPH 516). An introduction to all aspects of physical hydrology with emphasis on the dynamics of watersheds. Topics include global circulation, precipitation, evapotranspiration, snow and snowmelt, streamflow, rainfall-runoff relations, and watershed hydrology. PREREQ: MATH 170, GEOL 101.

GEOL 517 WATERSHED PROCESSES (3-0-3)(F)(GEOPH 517). 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 HYDROLOGIC MEASUREMENTS AND MODELING (3-0-3)(F)(Alternate years). An introduction to hydrologic data acquisition techniques with an emphasis on electronic logging systems, and an overview of computer models commonly used to simulate hydrologic processes. PREREQ: GEOL 416 or PERM/INST.

GEOL 519 FIELD METHODS IN MARINE GEOLOGY AND GEOPHYSICS (4-0-4)(F/S/SU)(GEOPH 519). Participation in a research oceanographic cruise. Modern navigation methods, geophysical data acquisition, and sediment sampling. Offered only as research cruises are available. Will require 15-60 days at sea. May be taken for Geology or Geophysics credit, but not both. PREREQ: PERM/INST.

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 530 VADOSE ZONE HYDROLOGY (CE 530)(3-0-3)(F). Laboratory and field methods for characterizing physical and hydraulic properties of soils, solution of variably saturated flow problems using analytical and numerical techniques. Computer simulations of flow and transport in variable saturated soils. Course may be taken for either Geology or Civil Engineering credit, but not both. PREREQ: CE 412, or GEOL 412, or CE 512, or GEOL 512, or PERM/INSTR.

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 533 CONTAMINANT TRANSPORT (CE 533)(3-0-3)(S). The fate and transport of dissolved solutes and non-qaueous phase liquids in groundwater systems. Students will analyze field data and develop conceptual models for contaminated sites. The role of engineers and hydrologists in environmental litigation will be addressed through case studies. Course may be taken for either Geology or Civil Engineering credit, but not both. PREREQ: CE 412, or CE 512, or GEOL 412, or GEOL 512, or PERM/INST.

GEOL 534 GRADUATE FIELD STUDY (1-2-1)(F). Design and completion of a narrowly-focused field investigation in the first semester of graduate study in geological sciences. Work w/faculty to choose topic, guidance on data collection and presentation, scientific illustration and report writing.

GEOL 540 TECTONICS SEMINAR (2-0-2)(F/S). Examination of specific orogenic systems, tectonic environments, and tectonic processes. PREREQ: GEOL 314 and 323, or PERM/INST.

GEOL 541 PLATE TECTONICS (3-0-3)(F/S). Reviews and clarifies geologic and geophysical foundations of plate tectonic theory.

Characteristics of modern tectonic environments and their use in interpreting the Earth's geologic history. Offered upon sufficient student interest. PREREQ: PERM/INST.

GEOL 542 CURRENT LITERATURE IN STRUCTURE AND TECTONICS (1-0-1)(F/S). Examination, presentation, and discussion of current literature in structure and tectonics. PREREQ: GEOL 314 or PERM/INST.

GEOL 552 NATURE OF SCIENCE (3-0-3)(F/S). Explores basic questions of how the Earth works from the perspective of the scientist. Emphasis on the conceptual approach to science. Interactive lectures and short writing assignments. Open to students with varied backgrounds. PREREQ: GEOL 102.

GEOL 560 VOLCANOLOGY (3-0-3)(F)(Field trip required) (Alternate years). Study of volcanic processes and deposits, with focus on advances in volcanology since 1980 eruption of Mt. St. Helens. Course content aimed at students desiring to improve skills in working with volcanic rocks in the context of the geologic record, as well as students interested in volcanic hazards assessment. PREREQ: Graduate standing in geosciences 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 570 EARTH SYSTEM SCIENCE AND GLOBAL WARMING (GEOG 570)(3-0-3)(F/S). Survey of interactions among physical biogeochemical processes involved in climate and climate feed back. Explore in detail scenarios of global warming for the next century and their reliability. PREREQ: 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 572 ISOTOPE GEOCHEMISTRY AND GEOCHRONOLOGY (3-0-3)(S)(Alternate years). Comprehensive overview of theory, methods, and applications of isotope geochemistry and geochronology to a wide range of earth science problems. PREREQ: PERM/INST.

GEOL 580 SELECTED TOPICS IN WATERSHED HYDROLOGY (1-3 credits)(F). Detailed investigation of select hydrologic processes and applications. Topics will vary each year and may include runoff generation, snow hydrology, watershed management, hydrologic modeling, sediment transport, land-use hydrology and field methods among others. Repeatable for credit. PREREQ: PERM/INST.

GEOL 591 PROJECT (7-3 to 0-6). 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.

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.

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.

GEOL 601 GRADUATE ORIENTATION (2-0-2)(F). General orientation to the graduate program in Geology. Introduction to the necessary forms and requirements of the program and development of technical writing skills through the preparation of abstracts, proposals for research funding, and thesis proposals.

GEOL 607 PALAEOCLIMATOLOGY AND PALAEOOCEANOGRAPHY (3-0-3)(F)(Alternate years) (GEOPH 607). Will survey the driving forces of atmospheric and oceanic circulation, their effect on the distribution of life on earth, and how this information can be retrieved from the geological record. Course may be taken for either Geology or Geophysics credit, but not both. PREREQ: GEOL 201 or PERM/INST.

GEOL 611 BASIN ANALYSIS (3-0-3)(S). Study of the formation and evolution of sedimentary basins. Emphasis on the concepts and qualitative tools necessary to understand how sedimentary basins are formed, their specific stratigraphic architectures, and modern approaches to correlation.

GEOL 623 ADVANCED HYDROGEOLOGY (3-0-3)(F) (GEOPH 623). Treatment of groundwater occurrence and flow, theory fundamental mechanisms, hydrologic parameters, flow regimes and systems, geologic controls. Course may be taken for either Geology or Geophysics credit, but not both. PREREQ: GEOL 412, MATH 275, MATH 233, or PERM/INST.

GEOL 624 APPLIED HYDROGEOLOGY (3-0-3)(S) (GEOPH 624). Quantitative determination of hydrologic parameter values and groundwater flow conditions. Conceptual models are geologic context, boundary condition, analytical and numerical solution techniques, measurement methods, applications to engineering and environmental problems. Course may be taken for either Geology or Geophysics credit, but not both. PREREQ: GEOL 623 and GEOPH 623 or PERM/INST.

GEOL 632 INTERPRETATION OF DEEP SEA SEDIMENTS (3-0-3)(F/S)(GEOPH 632). Reconstruction of past ocean conditions

through interpretation of deep sea sediments in terms of their composition and depositional environment. Links to ocean circulation, chemistry, and biological productivity. Course may be taken for either Geology or Geophysics credit, but not both. PREREQ: PERM/INST.

GEOL 641 GEODYNAMICS (GEOPH 641)(3-0-3)(F/S). Identifies and quantitatively analyzes the processes governing the dynamic behavior of Earth at a variety of spatial and temporal scales. Offered upon sufficient student interest. Course can be taken for GEOPH or GEOL credit, but not both. PREREQ: PERM/INST.

Doctor of Education in Curriculum and Instruction

College of Education
Education Building, Room 207
Telephone 208 426-1672
FAX 208 426-4006
e-mail: mheikkinen@boisestate.edu

Interim Dean: Margaret Miller

Graduate Program Coordinator: Michael Heikkinen

Full Graduate Faculty: Holly Anderson, James Armstrong, Robert Bahruth, Robert Barr, Bobbie Birdsall, Jonathan Brendefur, Steve Christensen, Kenneth Coll, Lee Dubert, Judy French, Heather Hanlon, Chad Harris, Michael Heikkinen, Werner Hoeger, Jack Hourcade, Rich Johnson, Philip Kelly, Bill Kozar, Melinda Lindsey, John McChesney, Margaret Miller, Rickie Miller, James Nicholson, William Parrett, Linda Petlichkoff, Ron Pfeiffer, Connie Pollard, Norma Sadler, Ted Singletary, Caile Spear, Stanley Steiner, Roger Stewart, Carolyn Thorsen, Ross Vaughn, Scott Willison

Associate Graduate Faculty: John Beach, Kenneth Bell, Mark DeBeliso, Anne Gregory, Shelley Lucas, Rosemary Palmer, Lawrence Rogien, Jane Marie Shimon, Elizabeth West

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 takes place prior to the summer semester. The admission process has two components: admission to the Graduate College and acceptance into the doctoral program.

Applicants must submit the following materials to Graduate Admission and Degree Services:

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 must 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 or vitae.
3. A sample of recent scholarly and/or professional writing that includes references (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 Doctoral Management 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 who should be admitted.

Transfer Credits: Doctor of Education students may transfer up to 21 credits, 15 credits of which may be 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 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.

Doctor of Education in Curriculum and Instruction

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 ED-CIFS 610 The American Culture and the Context of Schooling....3 ED-CIFS 660 Teaching and Learning....3 ED-CIFS 662 Curriculum ....3 ED-CIFS 663 Evaluation....3 ED-CIFS 664 Seminar in Curriculum and Instruction....3	15
School Improvement ED-CIFS 611 School Culture and the Problems of Change ....3 ED-CIFS 612 Strategies for School Improvement..3 ED-CIFS 620 Field Experience: Learners At-risk..2 ED-CIFS 621 Field Experience: School Improvement....2	10
Research ED-CIFS 651 Intermediate Statistics in Educational Research....3 ED-CIFS 652 Quantitative Approaches to Research....3 ED-CIFS 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 ED-CIFS 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 (ED-CIFS 503 or equivalent) must be completed prior to taking ED-CIFS 651 Intermediate Statistics in Educational Research and ED-CIFS 653 Qualitative Approaches to Research.
- Beginning statistics (KINES 552 or equivalent) must be completed prior to taking ED-CIFS 651 Intermediate Statistics in Educational Research.
- Foundations of curriculum (ED-CIFS 536 or equivalent) must be completed prior to taking ED-CIFS 662 Curriculum.
- Instructional theory or educational psychology (ED-CIFS 537 or ED-CIFS 501 or equivalents) must be completed prior to taking ED-CIFS 660 Teaching and Learning.
- Philosophy of education or foundations of education (ED-CIFS 505 or equivalent) must be completed prior to taking ED-CIFS 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 as part of the 21 transfer credits allowed 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)
ED-CIFS 610 The American Culture and the Context of Schooling....3
ED-CIFS 660 Teaching and Learning 3

Fall: Year 1 (residency)
ED-CIFS 653 Qualitative Approaches to Research 3
ED-CIFS 662 Curriculum 3

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

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

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

Spring: Year 2

ED-CIFS 663 Evaluation.....3
ED-CIFS 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.

ED-CIFS 693 Dissertation 9-12

Course Offerings

ED-CIFS — EDUCATION-CURRICULUM, INSTRUCTION, AND FOUNDATIONAL STUDIES

ED-CIFS 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 ED-CIFS 505, ED-CIFS 506 or equivalents; or permission of instructor and ED-CIFS 505, ED-CIFS 506 or equivalents.

ED-CIFS 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 ED-CIFS 610; or permission of instructor and ED-CIFS 610.

ED-CIFS 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 ED-CIFS 611; or permission of instructor and ED-CIFS 611.

ED-CIFS 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: ED-CIFS 653.

ED-CIFS 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: ED-CIFS 620.

ED-CIFS 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.

ED-CIFS 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 ED-CIFS 651; or permission of instructor, ED-CIFS 651 and ED-CIFS 503 or equivalent.

ED-CIFS 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 ED-CIFS 503 or equivalent.

ED-CIFS 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 ED-CIFS 501 or ED-CIFS 537 or equivalents; or permission of instructor and ED-CIFS 501 or ED-CIFS 537 or equivalents.

ED-CIFS 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 ED-CIFS 536 or equivalents; or permission of instructor and ED-CIFS 536 or equivalent.

ED-CIFS 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, ED-CIFS 651 and ED-CIFS 653; or permission of instructor, ED-CIFS 651 and ED-CIFS 653.

ED-CIFS 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: ED-CIFS 660 and ED-CIFS 662.

ED-CIFS 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

College of Education
Interim Dean: Margaret Miller
Associate Dean: Ross Vaughn
Education Building, Room 704
Telephone 208 426-1134
FAX 208 426-4365
http://education.boisestate.edu/grad/

Bilingual Education Chair and Graduate Program Coordinator: Claudia Peralta-Nash, ClaudiaNash@boisestate.edu
Education Building, Room 411
Telephone 208 426-2846

Curriculum, Instruction & Foundational Studies, Chair: Michael Heikkinen, mheikkinen@boisestate.edu
Education Building, Room 215
Telephone 208 426-1672

C&I Elementary Education Graduate Program Coordinator: Ted Singletary, tsingle@boisestate.edu
Education Building, Room 313
Telephone 208 426-3270

C&I Secondary Certification Graduate Program Coordinator: Ted Singletary, tsingle@boisestate.edu
Education Building, Room 207
Telephone 208 426-4496

Early Childhood Studies Chair and Graduate Program Coordinator: Judy French, jfrench@boisestate.edu
Education Building, Room 211
Telephone 208 426-1278

Educational Technology Chair and Graduate Program Coordinator: Carolyn Thorsen, cthorse@boisestate.edu
Education Building, Room 305
Telephone 208 426-4076

Literacy Chair and Reading Graduate Program Coordinator: Stan Steiner, ssteine@boisestate.edu
Education Building, Room 209
Telephone 208 426-2862

Special Education Chair and Graduate Program Coordinator: Melinda Lindsey, mlindsey@boisestate.edu
Education Building, Room 203
Telephone 208 426-1548

Graduate Program Information: Audra Overton
audraoverton@boisestate.edu
Education Building, Room 704
Telephone 208 426-1731

Full Graduate Faculty: Holly Anderson, James Armstrong, Robert Bahruth, Robert Barr, Jonathan Brendefur, Steve Christensen, Lee Ann Dubert, Judy French, Jay Fuhriman, Teresa Delgadillo Harrison, Michael Heikkinen, Jack Hourcade, Rich Johnson, Philip Kelly, Melinda Lindsey, Rickie Miller, William Parrett, Constance Pollard, Norma Sadler, Ted Singletary, Stanley Steiner, Roger Stewart, Carolyn Thorsen, Scott Willison

Associate Graduate Faculty: John Beach, Anne Gregory, Rosemary Palmer, Lawrence Rogien, Elizabeth West

General Information

The College of Education offers a Master's degree in education in Curriculum and Instruction with an emphasis in Bilingual Education, Physical Education, or Secondary Certification; Educational Technology, Early Childhood Education, Reading, or Special Education. The Graduate Program Coordinators oversee the administration of these programs and coordinate their operation. Additional programs that support school personnel include:

- Art — Contact Cheryl Shurtleff-Young at 426-3450
- Earth Science — Contact David Wilkins at 426-2390
- English — Contact Bruce Robbins at 426-3036
- History — Contact Peter Buhler at 426-3538
- Math — Contact Sharon Walen at 426-4095
- Music — Contact Department of Music at 426-1772
- School Counseling — Contact Bobbie Birdsall at 426-3204
- School of Social Work — Contact Bill Whitaker at 426-2579

Graduate Assistantships are available for any student qualifying for admission. 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.

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.

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.

Conceptual Framework

The conceptual framework for the College of Education at Boise State University is grounded in the theory and practice of the reflective practitioner. Reflective practitioners think critically about pedagogy, subject matter, and the needs and backgrounds of all students and clients. Accordingly, they choose appropriate content and adapt their approaches as needed, while maintaining high standards. Successful professionals are committed students of the disciplines in which they work. They remain current with professional ideas and use these to guide decision making. They are constantly assessing their instructional and clinical effectiveness.

Application and Admission Requirements

Prospective students may apply for admission at any time. However, the following application materials must be received by Graduate Admission and Degree Services 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. Application fee.
3. Official transcripts of all undergraduate and graduate course work sent directly to Boise State Graduate Admission and Degree Services.
4. Minimum GPA of 3.0 (on a 4.0 scale) for the last two years of undergraduate study, or an overall GPA of 3.0.

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

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 for that particular program or program emphasis.

Degree Requirements

The M.A. and M.S. in Education require a minimum of 33 semester credit hours. The exact number of credits depends upon the program and area of specialization upon which the student chooses.

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 Educational Technology. Graduate Core is offered once during the academic year and during summer session.

Master of Arts in Education, Curriculum and Instruction

Course Number and Title	Credits
ED-CIFS 506 Graduate Core: Issues in Education	4
Elective Core Courses Approved two-credit electives will be listed in the class schedule as ED-CIFS 597 Special Topics: Core followed by the specific title of the course. The following are examples of titles that might be offered: Parents in Education School Law and Ethics Students in the Middle School Contemporary Education Policy Interpreting Education Research NOTE: Students selecting Option II must take a research class, which may be ED-CIFS 597 Special Topics: Core - Interpreting Educational Research (2 credits), or ED-CIFS 503 Fundamentals of Educational Research (3 credits).	2
ED-CIFS 536 Curriculum Planning and Implementation	3
ED-CIFS 537 Instructional Theory	3
Content elective courses Content electives should be chosen to support an area normally taught in the schools. These include bilingual/ESL, any secondary certification content area, mathematics, science, reading, technology, etc. Each student should determine an individual program with an assigned advisor.	12
Elective options Option I. Thesis or Project: ED-CIFS 503 Fundamentals of Educational Research .....3 ED-CIFS 591 Project **OR** ED-CIFS 593 Thesis.....6 (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 Written Examination: (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. Candidate must be enrolled in a minimum of one credit (ED-CIFS 600 or other) for the comprehensive written examination. 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.) ED-CIFS 505 Philosophy of Education .....3 **OR** ED-CIFS 503 Fundamentals of Educational Research 3	9

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Master of Arts in Education, Curriculum and Instruction (continued)	
Approved electives .....6 NOTE: Students electing Option II must take a research class, which may be ED-CIFS 597 Special Topics: Core - Interpreting Educational Research (2 credits), or ED-CIFS 503 Fundamentals of Educational Research (3 credits).	
TOTAL	**33**

Master of Arts in Education, Curriculum and Instruction Option: Bilingual Education/ESL (Spanish-English)	
Course Number and Title	**Credits**
ED-CIFS 506 Graduate Core: Issues in Education	4
Elective Core Courses Approved two-credit electives will be listed in the class schedule as ED-CIFS 597 Special Topics: Core followed by the specific title of the course.	2
ED-CIFS 505 Philosophy of Education .....3 **OR** ED-CIFS 503 Fundamentals of Educational Research .....3 ED-CIFS 536 Curriculum Planning and Implementation .....3 ED-CIFS 537 Instructional Theory 3	9
Bilingual Education/ESL Option Requirements (Spanish-English): ED-BLESL 501 The Culturally Diverse Learner ....3 ED-BLESL 502 Second Language Methods and Materials .....3 ED-BLESL 503 Theoretical Fundamentals of Bilingual Education/ESL .....3 ED-BLESL 504 Language and Literacy .....3 ED-BLESL 505 Applied Linguistics: Comparative Language Study .....3 ED-BLESL 506 Techniques of Grant Application Writing.....1-2	16-17
Bilingual Strand Requirement: ED-BLESL 504 Language and Literacy .....3 **OR** ESL Strand Requirement: ED-BLESL 505 Applied Linguistics: Comparative Language Study 3	3
Elective option Option II. Comprehensive Written Examination: (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	0

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Master of Arts in Education, Curriculum and Instruction Option: Bilingual Education/ESL (Spanish-English) (continued)	
candidate for an oral review prior to final approval or rejection of the written examination.) NOTE: Students electing Option II must take a research class.	
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: Physical Education Pedagogy	
Course Number and Title	**Credits**
ED-CIFS 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 "ED-CIFS 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
KINES 555 Physical Education Pedagogy	3
ED-CIFS 503 Fundamentals of Educational Research or KINES 551 Research Design in Exercise & Sport	3
KINES 591 Project OR KINES 595 Thesis	6
Approved electives	15
TOTAL	**33**
Recommended electives in Kinesiology: KINES 510 Physiology of Activity KINES 520 Biomechanics KINES 525 Mechanical Analysis of Motor Activities KINES 530 Psychology of Exercise & Sport KINES 535 Sociology of Exercise & Sport KINES 540 Applies Principles of Conditioning KINES 550 Philosophy of Exercise & Sport KINES 552 Statistical Methods in Exercise & Sport KINES 560 Motor Learning KINES 570 Health Promotion KINES 575 Computers in Exercise & Sport KINES 580 Selected Topics in Applied Sport Psychology	

Master of Arts in Education, Curriculum and Instruction Option: Secondary Certification

Application and Admission Requirements

Students holding undergraduate degrees who plan to receive initial secondary teacher certification must apply and be accepted for admission to the Graduate College and to the Master of Arts in Education, Curriculum and Instruction with the Secondary Certification option program. Admission to teacher education 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 Office of College School Partnerships and Field Experiences (OCSPFE) in the Education Building, Room 222.

It is the responsibility of the individual student to provide the OCSPFE 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 Teacher Education Coordinating Counsel (TECC) and administered by the OCSPFE and the Department of Curriculum, Instruction, and Foundational Studies (CIFS).

Admission Schedules

Prospective students may apply for admission at any time. However, the OCSPFE must receive the application materials prior to beginning Block 1 by the first Friday in February for the fall semester, or the third Friday in September for the spring semester. You may contact the office for details at 208 426-1991.

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.

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 PRAXIS I – Writing with a score of 172 or higher. It may not be taken more than three times.
4. Successful completion of the Educational Technology Assessment (ETA) with a score of 75% or higher. It may not be taken more than three times.
5. **For those seeking Endorsement in Special Education:** A passing score of 175 or higher on the PRAXIS I for mathematics. It may not be taken more than three times.

Admission to Professional Year in Secondary Education

An application for a specific professional year assignment must be filed with the Office of the College School Partnerships and Field Experiences (OCSPFE) by the following dates:

1. The first Friday in February for students desiring to student teach in the fall.
2. The third Friday in September for students desiring to student teach in the spring.

Students must give six weeks notice prior to the beginning date for professional year if they wish to withdraw their application for professional year. Students choosing to postpone professional year must reapply.

General requirements for admission to professional year in secondary teacher certification include the following:

1. Recommendation of the faculty advisor.
2. Major field, minor field (when appropriate), and required education courses completed.
3. Successful completion of Block 1.
4. The PRAXIS II in your content area must be passed prior to beginning Block III.

Special Information on Professional Year in Secondary Teacher Certification

1. Students who transfer to Boise State University must meet requirements for admission to teacher education and professional year and complete at least 6 semester hours at the university before being placed in professional year.
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 to the OCSPFE (Education Building, Room 222).
4. Prior to professional year, students may be required by school districts to be fingerprinted.
5. Professional year 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. Students with a major and a minor will complete a minimum of 50 credit hours.

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.

The major certification endorsements (secondary option degree programs) are described in the undergraduate catalog under each department. A listing of secondary options follows:

Art, Biology, Chemistry, Communication, Earth Science, Economics, English, History, Mathematics, Modern Language, Music, Physical Education, Physics, Political Science, Sociology, Social Science, Theatre Arts

Note: Minor certification endorsements are listed in the undergraduate catalog. Check with the Graduate Program Coordinator for the Curriculum and Instruction/Secondary Certification emphasis, for the most current information regarding requirements for minor certification endorsements recognized by the State of Idaho.

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 Curriculum, Instruction, and Foundational Studies. 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.
5. Successfully complete PRAXIS II examination in all endorsement areas.

Master of Arts in Education, Curriculum and Instruction Option: Secondary Certification

Course Number and Title	Credits
ED-CIFS 506 Graduate Core: Issues in Education	4
Elective Core Courses: Approved two-credit electives will be listed in the class schedule as "ED-CIFS 597 Special Topics: Core followed by the specific title of the course. The following are examples of titles that might be offered: Parents in Education School Law and Ethics Students in the Middle School Contemporary Education Policy	2
EDTECH 575 Integrating Technology into Classroom Curricula....3 ED-CIFS 505 Philosophy of Education....3 ED-CIFS 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.) ED-CIFS 538 Learning and Instruction....4 ED-CIFS 550 Exceptional Needs....3 ED-CIFS 560 Teaching Experience I....1	8
Block II (Block courses are corequisites.) ED-CIFS 544 Content Literacy....3 # varies Content Methods....3 ED-CIFS 561 Professional Year-Teaching Experience II....2	8
Block III ED-CIFS 562 Professional Year-Elementary Teaching Experience III (A/M/PE)....5 ED-CIFS 563 Professional Year-Jr. High Teaching Experience IV (A/M/PE)....5 ED-CIFS 564 Professional Year-Sr. High Teaching Experience IV (A/M/PE)....5 ED-CIFS 565 Professional Year-Jr. High Teaching Experience III....10 ED-CIFS 566 Professional Year-Sr. High Teaching Experience III....10	10
Culminating Activity Option I. Thesis or Project: ED-CIFS 503 Fundamentals of Educational Research....3 ED-CIFS 591 Project **OR** ED-CIFS 593 Thesis....6 (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.)	9

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Master of Arts in Education, Curriculum and Instruction Option: Secondary Certification (continued)

Option II. Comprehensive Written Examination: (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. Candidate must be enrolled in a minimum of one credit (ED-CIFS 600 or other) for the comprehensive written examination. 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.) ED-CIFS 505 Philosophy of Education .....3 **OR** ED-CIFS 503 Fundamentals of Educational Research .....3 Approved electives .....6 NOTE: Students selecting Option II must take a research class, which may be ED-CIFS 597 Special Topics: Core - Interpreting Educational Research (2 credits), or ED-CIFS 503 Fundamentals of Educational Research (3 credits).	
TOTAL	**59**

Master of Arts in Education, Early Childhood Studies

Course Number and Title	Credits
ED-CIFS 506 Graduate Core: Issues in Education	4
Elective Core Courses: Approved two-credit electives will be listed in the class schedule as "ED-CIFS 597 Special Topics: Core" followed by the specific title of the course. The following are examples of titles that might be offered: Parents in Education School Law and Ethics Research Contemporary Education Policy	2
ED-ECS 521 Readings: ECE/ECSE .....3 ED-ECS 522 Development and Curriculum: ECE/ECSE.....3 ED-ECS 523 Early Learning Models: ECE/ECSE.....3 ED-ECS 524 Play, Language Acquisition, and Literacy: ECE/ECSE .....3 ED-ECS 523 Leadership: ECE/ECSE 3	15
Option I: Thesis ED-ECE 593 Thesis .....6 ED-CIFS 503 Fundamentals of Educational Research.....3 Approved Electives.....3 **Option II: Project** ED-ECE 591 Project.....6 ED-CIFS 503 Fundamentals of Educational Research.....3 Approved Electives.....3	12

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Master of Arts in Education, Early Childhood Studies (continued)

Option III: Comprehensive Written Examination (Students taking this option must take ED-CIFS 597 Research) ED-ECS 600 Assessment (Comprehensive Examination).....1 ED-CIFS 505 Philosophy of Education.....3 ED-CIFS 597 Special Topics: Research.....2 Students must have completed all course work before taking comprehensive examination. Approved electives.....8	
TOTAL	**33**

Master of Arts in Education, Reading

Course Number and Title	Credits
ED-CIFS 506 Graduate Core: Issues in Education	4
Elective Core Courses: Approved two-credit electives will be listed in the class schedule as "ED-CIFS 597 Special Topics: Core" followed by the specific title of the course. The following are examples of titles that might be offered: Parents in Education School Law and Ethics Students in the Middle School Contemporary Education Policy	2
ED-LTCY 540 Foundations of Reading Instruction	3
ED-LTCY 541 Assessment and Instruction: Reading Difficulties K-12	3
ED-LTCY 542 Best Practices in Literacy Improvement	3
ED-LTCY 543 Seminar in Literacy Education	3
Elective Options: Option I. Thesis or Project: ED-CIFS 503 Fundamentals of Educational Research .....3 ED-LTCY 591 Project **OR** ED-LTCY 593 Thesis.....6 Reading electives.....3-9 Approved electives .....3-9 (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 Written Examination: (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. Candidate must be enrolled in a minimum of one credit (ED-LTCY 600 or other) for the comprehensive written examination. 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.)	15

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Master of Arts in Education, Reading (continued)	
ED-CIFS 505 Philosophy of Education .....3 **OR** ED-CIFS 503 Fundamentals of Educational Research .....3 NOTE: Students selecting Option II must take a research class, which may be ED-CIFS 597 Special Topics: Core - Interpreting Educational Research (2 credits) or ED-CIFS 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.	

Reading Endorsement. The endorsement in reading provides enhanced depth and breadth of course work in reading and language arts. This enhanced knowledge allow the student to be endorsed in reading education K-8, 6-12 or K-12. Twenty semester credits are required. Which includes a minimum of one or more courses from each of the five following areas: Foundations of Reading or Developmental Reading, Content Area Reading, Corrective/Diagnostic/ Remedial Reading, Psycholinguistics/Language Development and Reading, and Literature for Children and Adolescents. The courses listed here represent suggestions that fulfill the 20-credit endorsement.

Of the minimum twenty (20) semester credit hours needed for this endorsement, sixteen (16) credit hours must be divided among Areas I-V so that credit hours are earned from each area. Additional credit hours as needed, taken from area VI will satisfy the endorsement credit requirements.

Reading Endorsement K-8, 6-12 or K-12	
Course Number and Title	**Credits**
Area I: Foundations of Developmental Reading ED-LTCY 540 Foundations of Reading Instruction ED-LTCY 549/594/597 Idaho Comprehensive Literacy Course	3
Area II: Reading in the Content Area (ED-LTCY 440 & 444 are required for K-12 endorsement) Idaho has endorsements for K-8, 6-12 and K-12. Secondary students wanting the K-12 certification must take an elementary reading methods course. ED-LTCY 440 Content Area Language Arts: K-8 (Required for K-8 endorsement only) ED-LTCY 544 Content Literacy in Secondary School (Required for 6-12 endorsement only)	3-6
Area III: Corrective/Diagnostic/Remedial Reading ED-LTCY 541 Assessment and Instruction: Reading Difficulties K-12 **AND** ED-LTCY 542 Best Practices in Literacy Improvement	3-6

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Reading Endorsement K-8, 6-12 or K-12 (continued)	
Area IV: Psycholinguistics/Language Development and Reading (Choose at least one) ED-ECS 524 Early Childhood: Language Acquisition and Development ED-LTCY 548 Psycholinguistics and Literacy ENGL 505 Linguistics	3
Area V: Literature for Children or Adolescents (Choose at least one) ED-LTCY 546 Advanced Study of Children's Literature ED-LTCY 547 Advanced Young Adult Literature ENGL 581 Literature for Use in Junior and Senior High Schools	3
Area VI: Choose electives to total 20 credits from the following list ED-LTCY 532 Advanced Principles and Practices in Teaching Language Arts and Linguistics ED-LTCY 543 Seminar in Literacy ED-LTCY 545 Teaching Writing in Elementary Schools ED-LTCY 590 Practicum/Internship ED-LTCY 591 Project ED-LTCY 593 Thesis ED-LTCY 594 Conference or Workshop ED-LTCY 596 Directed Research ED-LTCY 597 Special Topics ENGL 502 Teaching Fiction, Non-Fiction and Poetry Writing (Secondary) ENGL 597 Selective Topics in Teaching English Language Arts (Secondary)	0-4
TOTAL	**20**

Master of Arts in Education, Special Education Students with Disabilities	
Course Number and Title	**Credits**
ED-CIFS 506 Graduate Core: Issues in Education	4
Elective Core Courses: Approved two-credit electives will be listed in the class schedule as "ED-CIFS 597 Special Topics: Core followed by the specific title of the course. The following are examples of titles that might be offered: Parents in Education School Law and Ethics Students in the Middle School Contemporary Education Policy	2
ED-SPED 551 Counseling and Consulting Skills for Educators	3
ED-SPED 552 Instructional Design in Special Education	3
ED-SPED 554 Students with Emotional Disturbances or Behavior Disorders	3
ED-SPED 555 Issues and Trends in Special Education	3

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Master of Arts in Education, Special Education Students with Disabilities (continued)

ED-SPED 590 Practicum: Special Education	3
Elective Options: Option I. Thesis or Project: ED-CIFS 503 Fundamentals of Educational Research .....3 ED-SPED 591 Project **OR** ED-SPED 593 Thesis .....6 Approved electives .....3 (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 Written Examination: (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.) ED-CIFS 505 Philosophy of Education .....3 **OR** ED-CIFS 503 Fundamentals of Educational Research .....3 NOTE: Students selecting Option II must take a research class, which may be ED-CIFS 597 Special Topics: Core - Interpreting Educational Research (2 credits), or ED-CIFS 503 Fundamentals of Educational Research (3 credits). Approved electives .....9 Suggested electives: ED-LTCY 541 Diagnosis and Correction of Reading Problems .....3 ED-LTCY 542 Clinic for Reading Specialists .....3 ED-SPED 596 Directed Research: Special Education 3	12
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
ED-CIFS 506 Graduate Core: Issues in Education	4
Elective Core Courses: Approved two-credit electives will be listed in the class schedule as "ED-CIFS 597 Special Topics: Core followed by the specific title of the course. The following are examples of titles that might be offered: Parents in Education School Law and Ethics Students in the Middle School Contemporary Education Policy	2

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Master of Arts in Education, Special Education Severe Disabilities (continued)

ED-SPED 551 Counseling and Consulting Skills for Educators	3
ED-SPED 556 Seminar in Severe Disabilities	3
ED-SPED 554 Students with Emotional Disturbances or Behavior Disorders	3
ED-SPED 555 Issues and Trends in Special Education	3
ED-SPED 590 Practicum: Special Education	3
Elective Options: Option I. Thesis or Project: ED-CIFS 503 Fundamentals of Educational Research .....3 ED-CIFS 591 Project **OR** ED-CIFS 593 Thesis.....6 Approved electives .....3 (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 Written Examination: (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.) ED-CIFS 505 Philosophy of Education .....3 **OR** ED-CIFS 503 Fundamentals of Educational Research .....3 NOTE: Students selecting Option II must take a research class, which may be ED-CIFS 597 Special Topics: Core - Interpreting Educational Research (2 credits), or ED-CIFS 503 Fundamentals of Educational Research (3 credits). Approved electives 9	12
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 emphasis in Educational Technology prepares students to work in educational and other settings requiring expertise in improving performance, designing instruction, and using a variety of instructional delivery systems. This program enables professionals to select and use a variety of technologies to produce long-term benefits for individuals and organizations. Work in this program includes a wide range of theoretical and practical experiences.	

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Master of Arts in Education, Educational Technology (continued)	
Requirements: EDTECH 575 Integrating Technology into Classroom Curricula....3 EDTECH 571 Introduction to Education Technology ...3 EDTECH 572 Instructional Design for Educators.....3 EDTECH 573 The Internet for Educators.....3 EDTECH 574 Instructional Courseware Design .....3 ED-CIFS 503 Fundamentals of Educational Research.....3 ED-CIFS 537 Instructional Theory.....3	21
Culminating Activities I. Thesis or Project: ED-TECH 591 Project **OR** ED-TECH 593 Thesis ....6 (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 technology and instruction.) **OR** II. Selected Topics Courses and Comprehensive Written Examination EDTECH 580-589 Selected Topics .....6 (Comprehensive Written Examination: A comprehensive written examination is required at the end of the course work. It will be based on skills and knowledge linked to national standards for an advanced degree in Educational Technology. The examination will be reviewed and graded by a committee of three faculty members.)	6
Students should take at least 6 credits of elective course work. Suggested Electives: EDTECH 570 Online Skills and Strategies.....1 SOC 510 Conflict and Change in Socio-Cultural Systems.....3 ED-TECH 536 Curriculum Planning and Implementation.....3 EDTECH 580-589 Selected Topics:.....3 ED-CIFS 501 Advanced Educational Psychology .....3 ED-CIFS 506 Issues in Education.....4 EDTECH 590 Practicum.....6	6
TOTAL	**33**

Graduate Certificate in Online Teaching

General Information

The Graduate Certificate in Online Teaching program is designed for those who wish to learn methodologies for online instruction with an emphasis on designing and moderating online courses. Students admitted to the certificate program are required to be familiar with all policies of the Graduate College that govern graduate certificate programs.

Admission Requirements

Admission to the certificate program requires a baccalaureate degree from a regionally accredited college or university and admission to the Graduate College. In addition, the academic background of the applicant must be judged by the Graduate Program Coordinator to be adequate for enrollment in graduate courses in education and educational technology. However, meeting these minimum requirements does not guarantee admission to the certificate program. If the student skill set is judged insufficient the student may be admitted provisionally with the expectation of prerequisite course work.

Application Procedures

An applicant to the certificate program must follow the general application procedures of the Graduate College for admission to a graduate program. The applicant must also submit a letter of interest to the Graduate Program Coordinator briefly summarizing his or her background and motivation for enrolling in the certificate program. Once the applicant's file is complete, it will be reviewed by the Graduate Program Coordinator who will provide an admission recommendation to the Dean of the Graduate College. The Dean will make the final admission decision and notify the applicant.

Special Relationships with Other Programs

A student may be simultaneously enrolled in the Master of Science in Educational Technology program and the Graduate Certificate in Online Teaching program subject to the approval of the chair of the student's supervisory committee and the graduate program coordinators of both programs. Please note that admission to the certificate program does not guarantee admission to the degree program and vice versa.

A student who is not enrolled in any graduate degree program at Boise State University may by enrolled in the Graduate Certificate in Online Teaching program and one other graduate certificate program offered by the Department of Educational Technology but only with the written approval of the Graduate Program Coordinator. Please note that admission to one certificate program does not guarantee admission to another certificate program, even if the programs are closely related. Simultaneous enrollment in more than two graduate certificate programs is prohibited by the Graduate College. Credits earned in this certificate program may be counted towards the Master of Science in Educational Technology program.

Certificate Requirements

Graduate Certificate in Online Teaching	
Course Number and Title	**Credits**
EDTECH 572 Instructional Design for Educators....3 EDTECH 575 Integrating Technology into Classroom Curricula.....3 EDTECH 582 Selected Topics: Teaching Online.....3 EDTECH 583 Selected Topics: Multimedia.....3 EDTECH 586 Selected Topics: Technical Writing for Educational Technologists.....3	15
TOTAL	**15**

Graduate Certificate in School Technology Coordination

General Information

The Graduate Certificate in School Technology Coordination program is designed to provide specialized skills for those professionals who are responsible for coordinating educational technology for an entire school. The program emphasizes understanding of the networked environment, web programming, and skills for teaching teachers how to use computers in the teaching and learning process. Students admitted to the certificate program are required to be familiar with all policies of the Graduate College that govern graduate certificate programs.

Admission Requirements

Admission to the certificate program requires a baccalaureate degree from a regionally accredited college or university and admission to the Graduate College. In addition, the academic background of the applicant must be judged by the Graduate Program Coordinator to be adequate for enrollment in graduate courses in education and educational technology. However, meeting these minimum requirements does not guarantee admission to the certificate program. If the student skill set is judged insufficient the student may be admitted provisionally with the expectation of prerequisite course work.

Application Procedures

An applicant to the certificate program must follow the general application procedures of the Graduate College for admission to a graduate program. The applicant must also submit a letter of interest to the Graduate Program Coordinator briefly summarizing his or her background and motivation for enrolling in the certificate program. Once the applicant's file is complete, it will be reviewed by the Graduate Program Coordinator who will provide an admission recommendation to the Dean of the Graduate College. The Dean will make the final admission decision and notify the applicant.

Special Relationships with Other Programs

A Student may be simultaneously enrolled in the Master of Science in Educational Technology program and the Graduate Certificate in School Technology Coordination program subject to the approval of the chair of the student's supervisory committee and the graduate program coordinators of both programs. Please note that admission to the certificate program does not guarantee admission to the degree program and vice versa.

A student who is not enrolled in any graduate degree program at Boise State University may be enrolled in the Graduate Certificate in School Technology Coordination program and one other graduate certificate program offered by the Department of Educational Technology but only with the written approval of the Graduate Program Coordinator. Please note that admission to one certificate program does not guarantee admission to another certificate program, even if the programs are closely related. Simultaneous enrollment in more than two graduate certificate programs is prohibited by the Graduate College. Credits earned in this certificate program may be counted towards the Master of Science in Educational Technology program.

Certificate Requirements

Graduate Certificate in School Technology Coordination

Course Number and Title	Credits
EDTECH 574 Instructional Software Development and Courseware Design .....3 EDTECH 575 Integrating Technology into Classroom Curricula .....3 EDTECH 583 Selected Topics: Multimedia.....3 EDTECH 585 Selected Topics: Operating Systems and Networks .....3 EDTECH 586 Selected Topics: Technical Writing for Educational Technologists.....3	15
TOTAL	**15**

Graduate Certificate in Technology Integration Specialist

General Information

The Graduate Certificate in Technology Integration Specialist is designed for K-12 teachers who wish to develop skills in computer technology to support the teaching and learning process. Students admitted to the certificate program are required to be familiar with all policies of the Graduate College that govern graduate certificate programs.

Admission Requirements

Admission to the certificate program requires a baccalaureate degree from a regionally accredited college or university and admission to the Graduate College. In addition, the academic background of the applicant must be judged by the Graduate Program Coordinator to be adequate for enrollment in graduate courses in education and educational technology. However, meeting these minimum requirements does not guarantee admission to the certificate program. If the student skill set is judged insufficient the student may be admitted provisionally with the expectation of prerequisite course work.

Application Procedures

An applicant to the certificate program must follow the general application procedures of the Graduate College for admission to a graduate program. The applicant must also submit a letter of interest to the Graduate Program Coordinator briefly summarizing his or her background and motivation for enrolling in the certificate program. Once the applicant's file is complete, it will be reviewed by the Graduate Program Coordinator who will provide an admission recommendation to the Dean of the Graduate College. The Dean will make the final admission decision and notify the applicant.

Special Relationships with Other Programs

A student may be simultaneously enrolled in the Master of Science in Educational Technology program and the Graduate

Certificate in Technology Integration Specialist program subject to the approval of the chair of the student's supervisory committee and the graduate program coordinators of both programs. Please note that admission to the certificate program does not guarantee admission to the degree program and vice versa.

A student who is not enrolled in any graduate degree program at Boise State University may be enrolled in the Graduate Certificate in Technology Integration Specialist program and one other graduate certificate program offered by the Department of Educational Technology but only with the written approval of the Graduate Program Coordinator. Please note that admission to one certificate program does not guarantee admission to another certificate program, even if the programs are closely related. Simultaneous enrollment in more than two graduate certificate programs is prohibited by the Graduate College. Credits earned in this certificate program may be counted towards the Master of Science in Educational Technology program.

Certificate Requirements

Graduate Certificate in Technology Integration Specialist

Course Number and Title	Credits
EDTECH 575 Integrating Technology into Classroom Curricula.....3 EDTECH 580 Selected Topics: Technology in the Content Area .....3 EDTECH 581 Selected Topics: Technology-Supported Problem-Based Learning for Educational Technologists .....3 EDTECH 583 Selected Topics: Multimedia.....3	15
TOTAL	**12**

Course Offerings

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

ED-BLESL — EDUCATION-BILINGUAL EDUCATION

ED-BLESL 501 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.

ED-BLESL 502 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.

ED-BLESL 503 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.

ED-BLESL 504 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.

ED-BLESL 505 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.

ED-BLESL 506 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.

ED-CIFS — EDUCATION-CURRICULUM, INSTRUCTION, AND FOUNDATIONAL STUDIES

ED-CIFS 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 ED-CIFS 225.

ED-CIFS 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.

ED-CIFS 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.

ED-CIFS 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.

ED-CIFS 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.

ED-CIFS 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.

ED-CIFS 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.

ED-CIFS 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.

ED-CIFS 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.

ED-CIFS 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, ED-CIFS 538, ED-SPED 550, ED-CIFS 560. COREQ: ED-LTCY 544 and ED-CIFS 561.

ED-CIFS 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, ED-CIFS 538, ED-SPED 550, and ED-CIFS 560. COREQ: ED-LTCY 544 and ED-CIFS 561.

ED-CIFS 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.

ED-CIFS 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.

ED-CIFS 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: ED-SPED 550 and ED-CIFS 560.

ED-CIFS 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.

ED-CIFS 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.

ED-CIFS 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 (which they have studied on campus) and demonstrate teaching competence in a P-12 school setting. Graded Pass/Fail. PREREQ: Admission to Secondary Teacher Certification. COREQ: ED-CIFS 538 and ED-SPED 550.

ED-CIFS 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) and demonstrate competence in a P-12 school setting. Graded Pass/Fail. PREREQ: Admission to Secondary Teacher Certification. COREQ: ED-LTCY 544 and the content methods course for the students' declared major.

ED-CIFS 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: ED-CIFS 563 or ED-CIFS 564.

ED-CIFS 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: ED-CIFS 562 or ED-CIFS 564.

ED-CIFS 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: ED-CIFS 562 or ED-CIFS 563.

ED-CIFS 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.

ED-CIFS 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.

ED-CIFS 580-589 SELECTED TOPICS

ED-CIFS 590 PRACTICUM (VARIABLE).

ED-CIFS 591 PROJECT (0-V-6).

ED-CIFS 593 THESIS (0-V-6).

ED-CIFS 597 SPECIAL TOPICS

ED-CIFS 600 ASSESSMENT (Comprehensive Examination)

ED-ECS — EDUCATION-EARLY CHILDHOOD STUDIES

ED-ECS 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.

ED-ECS 522 DEVELOPMENT AND CURRICULUM: ECE/ECSE (3-0-3)(F). Development in all domains is examined in depth, birth to age eight. Curriculum is examined as it fosters development in ALL young children..

ED-ECS 523 EARLY LEARNING MODELS: ECE/ECSE (3-0-3)(S). Models of effective early childhood education, birth to age eight, for ALL young children and their families.

ED-ECS 524 PLAY, LANGUAGE ACQUISITION, AND LITERACY: ECE/ECSE (3-0-3)(F). Language development, acquisition and the relationship between play, language and emergent literacy in ALL young children, birth to age eight.

ED-ECS 525 LEADERSHIP: ECE/ECSE (3-0-3)(S). Refining practice through reflection, collaboration with colleagues and communities, and advocacy for ALL young children and their families. Fieldwork is required.

ED-ECS 600 ASSESSMENT (Comprehensive Examination) (1-0-1). Culminating assessment activity with the comprehensive examination option in the Master of Arts in Education, Early Childhood Studies. Graded Pass/Fail.

ED-LTCY — EDUCATION-LITERACY

ED-LTCY 532 ADVANCED PRINCIPLES AND PRACTICES IN TEACHING LANGUAGE ARTS AND LINGUISTICS (3-0-3)(F). Study of the theoretical constructs of reading, the psychological and pedagogical foundations of reading instruction, and learn to create and improve reading education programs in elementary and secondary classrooms.

ED-LTCY 540 FOUNDATIONS OF LITERACY INSTRUCTION (3-0-3)(F/S/SU). Studies the theoretical constructs of reading and writing, the psychological and pedagogical foundations of literacy instruction, and the creation and improvement of literacy education programs in elementary and secondary classrooms.

ED-LTCY 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.

ED-LTCY 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: ED-LTCY 541 or the equivalent.

ED-LTCY 543 SEMINAR IN LITERACY EDUCATION (3-0-3) (S/SU). Covers current issues and trends in literacy education and leadership techniques. PREREQ: ED-LTCY 540 or PERM/INST.

ED-LTCY 544 CONTENT LITERACY IN SECONDARY SCHOOL (3-0-3)(F/S/SU). 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, ED-CIFS 538, ED-SPED 550, and ED-CIFS 560. Instructor permission to waive prerequisites may be given to all students not enrolled in the secondary education certification program (Block I-III). COREQ: ED-CIFS 561 and the content methods course for the declared major.

ED-LTCY 545 TEACHING WRITING IN ELEMENTARY SCHOOLS (3-0-3)(S). Focuses on learning, teaching, and assessment of writing. The writing process and writing in a variety of genres are emphasized.

ED-LTCY 546 ADVANCED STUDY OF CHILDREN'S LITERATURE (3-0-3)(F). In-depth literary analysis of children's literature from preschool to early adolescence, including multicultural literature. Development of children's literature activities for classroom, libraries, and other settings.

ED-LTCY 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.

ED-LTCY 548 PSYCHOLINGUISTICS AND LITERACY (3-0-3) (F/SU). Psychological processes and strategies by which readers and writers construct and reconstruct the message of a text. Application of theoretical conclusions to teaching practices.

ED-LTCY 549 IDAHO COMPREHENSIVE LITERACY COURSE (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.

ED-LTCY 590 PRACTICUM/INTERNSHIP (1-3 Credits)

ED-LTCY 591 PROJECT (3-6 Credits). Graded Pass/Fail.

ED-LTCY 593 THESIS (6 Credits). Graded Pass/Fail.

ED-LTCY 594 CONFERENCE OR WORKSHOP (1-3 Credits). Graded Pass/Fail.

ED-LTCY 596 DIRECTED RESEARCH (1-3 Credits). Graded Pass/Fail.

ED-LTCY 597 SPECIAL TOPICS (1-3 credits). Graded Pass/Fail.

ED-LTCY 600 ASSESSMENT (Comprehensive Examination) (1-3 credits). Examination or other assessment activity required by a master's or doctoral graduate program. Graded Pass/Fail.

ED-LTCY 697 SPECIAL TOPICS IN LITERACY (1-3 Credits). Graded Pass/Fail.

ED-SPED — EDUCATION-SPECIAL EDUCATION

ED-SPED 550 TEACHING SECONDARY STUDENTS WITH EXCEPTIONAL NEEDS (3-0-3)(F,S). Education of students with exceptional needs at the secondary level. Characteristics of students with disabilities, relevant legislation, assessment techniques, curricular adaptations and accommodations, and collaboration. PREREQ: Admission to Graduate Secondary Teacher Certification. COREQ: ED-CIFS 538 and ED-CIFS 560.

ED-SPED 551 COUNSELING AND CONSULTING SKILLS FOR EDUCATORS (3-0-3)(F). Theories and approaches to counseling and consulting, communication skills, and intervention programs for educators working with families of students with disabilities.

ED-SPED 552 INSTRUCTIONAL DESIGN FOR SPECIAL EDUCATORS (3-0-3)(F). Advanced instructional design components to more effectively teach individuals with disabilities, including theoretical and programmatic considerations.

ED-SPED 554 STUDENTS WITH EMOTIONAL DISTURBANCES OR BEHAVIOR DISABILITIES (3-0-3)(F/SU). Current best practices in development of instructional and behavioral programs for students with severely challenging behaviors.

ED-SPED 555 ISSUES AND TRENDS IN SPECIAL EDUCATION (3-0-3)(S). Current issues and trends in the field of special education, targeting such areas as eligibility, assessment, parents, and service delivery options. Seminar format with student presentations.

ED-SPED 556 SEMINAR IN SEVERE DISABILITIES (3-0-3)(S) Odd years). Advanced professional knowledge and skills relevant to

providing services to individuals with severe disabilities, with special attention to contemporary issues and trends in the field.

ED-SPED 600 ASSESSMENT (Comprehensive Examination) (1 Credit). Graded Pass/Fail.

EDTECH — EDUCATIONAL TECHNOLOGY

EDTECH 570 ONLINE SKILLS AND STRATEGIES (1-0-1)(As needed). Students learn the fundamentals of learning online. This course gives students the conceptual and software tools that wil help them be successful in the online Educational Technology Master's degree program.

EDTECH 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.

EDTECH 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.

EDTECH 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.

EDTECH 574 INSTRUCTIONAL SOFTWARE DEVELOPMENT AND COURSEWARE DESIGN (3-0-3)(F/S). Students will practice the elements of courseware design for computer delivery as they learn a programming language. Students will learn programming basics and interface design.

EDTECH 575 INTEGRATING TECHOLOGY INTO CLASSROOM CURRICULA (3-0-3)(F/S/SU). Students learn and demonstrate knowledge of computer hardware and operating systems in networked computing environments found in K-12 educational settings; use advanced features of spreadsheets and relational database management systems to develop classroom strategies and lessons and will create an electronic portfolio that demonstrates understanding of the integration of technology into the teaching/learning process. PREREQ: EDTECH 202, or completion of the Educational Technology Assessment, or EDTECH 573.

EDTECH 580-589 SERIES SELECTED TOPICS (3-0-3). Topics in educational technology with frequently changing content. Provides students with a concentration area in Online Teaching, Technology Integration, or School Technology Coordination.

EDTECH 580 SELECTED TOPICS: TECHNOLOGY IN THE CONTENT AREA

EDTECH 581 SELECTED TOPICS: PROBLEM-BASED LEARNING FOR EDUCATIONAL TECHNOLOGISTS

EDTECH 582 SELECTED TOPICS: TEACHING ONLINE

EDTECH 583 SELECTED TOPICS: MULTIMEDIA

EDTECH 584 SELECTED TOPICS: EVALUATION FOR EDUCATIONAL TECHNOLOGISTS

EDTECH 585 SELECTED TOPICS: OPERATING SYSTEMS AND NETWORKS

EDTECH 586 SELECTED TOPICS: TECHNICAL WRITING FOR EDUCATIONAL TECHNOLOGISTS

EDTECH 591 PROJECT (0-V-6).

EDTECH 593 THESIS (0-V-6).

Master of Science in Electrical Engineering

Master of Engineering in Electrical Engineering

Department of Electrical and Computer Engineering
Micron Engineering Center, Room 302J
Telephone 208 426-5715
FAX 208 426-2470
e-mail: roxford@boisestate.edu

Graduate Program Coordinator: R. Jacob Baker
Graduate Program Information: Rex Oxford
Department Chair: R. Jacob Baker
Full Graduate Faculty: Said Ahmed-Zaid, R. Jacob Baker, Gary Erickson, William Knowlton, John Owens, Nader Rafla, Cheryl Schrader
Associate Graduate Faculty: Elisa Barney-Smith, Joseph Hartman, Jeff Jessing, Sin Ming Loo, Stephen Parke

General Information

The Department of Electrical and Computer Engineering offers two distinct electrical engineering graduate degree programs. The program leading to the Master of Science in Electrical Engineering (M.S. EE) is a thesis-based program designed to prepare students for research and development and further study at the doctoral level. The program leading to the Master of Engineering in Electrical Engineering (M.Engr. EE) is a non-thesis program with a focus on professional development.

Admission Requirements and Application Procedures

Admission Requirements. An applicant must satisfy the minimum admission requirements of the Graduate College. In addition, the applicant must hold a baccalaureate degree in electrical engineering from an ABET-accredited program or a baccalaureate degree in a closely related field, and must follow the application procedures specified below. Admission is competitive and the achievement of minimum requirements does not guarantee admission.

Application Procedures. A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Applying as a Degree-Seeking Student in this catalog). The applicant must also arrange to have GRE General Test scores submitted by the Educational Testing Service (www.ets.org) directly to Boise State University (code R4018). Applicants holding a baccalaureate degree from the College of Engineering of Boise State University are not required to submit GRE scores. International applicants must submit a statement of purpose to the graduate program coordinator and arrange for three letters

of recommendation to be submitted directly by the references to the Boise State University International Admissions Office. The statement of purpose should give the educational and professional background of the student and his or her motivation for graduate study including career goals. Once the applicant's file is complete, it will be evaluated by the Electrical Engineering Graduate Studies Committee and an admission recommendation (regular, provisional, or denial) will be forwarded to the Dean of the Graduate College. In order to ensure proper mentoring of all graduate students, a recommendation for regular or provisional admission will not be forwarded unless a faculty member of the Department of Electrical and Computer Engineering is available to serve as the major advisor. The graduate dean will make the final admission decision and notify the applicant and the Electrical Engineering Graduate Studies Committee.

Advisor and Supervisory Committee

For a student admitted to the M.S. EE program, the Electrical Engineering Graduate Studies Committee will initiate the assignment of a supervisory committee including a major advisor who serves as chair. The role of the supervisory committee is to guide the student in all aspects of his or her graduate study. For a student admitted to the M.Engr. EE program, the Electrical Engineering Graduate Studies Committee will appoint a major advisor; student mentoring will be provided by the major advisor and the chair of the department.

Degree Requirements

Master of Science in Electrical Engineering. Students must complete at least 30 graduate credits distributed as shown in the degree requirements table. A written thesis proposal with oral presentation to the supervisory committee is required prior to the completion of 15 credits applicable to the degree requirements. Work on the thesis can only be undertaken after approval of the thesis proposal by the supervisory committee. The thesis must constitute an original contribution to knowledge in electrical engineering and must be successfully defended at a final oral examination. All work directly related to the thesis must be represented by at least 6 credits of EE 593.

Master of Science in Electrical Engineering

Course Number and Title	Credits
Graduate EE Courses Graduate courses in electrical engineering; all courses to be selected with student input and approved by the supervisory committee.	15-24
Other Graduate Courses Graduate courses in electrical engineering or a related field; all courses to be selected with student input and approved by the supervisory committee.	0-9
Thesis EE 593 Thesis (P/F)	6
TOTAL	**30**

Master of Engineering in Elecrical Engineering. Students must complete at least 31 graduate credits distributed as shown in the degree requirements table. A maximum of 3 credits of EE 696 Directed Research may be applied to meet the degree requirements. The comprehensive examination cannot be attempted prior to the last semester of the program. If the comprehensive examination is failed on the first attempt, then the student will be permitted a second attempt. Failure on the second attempt will result in dismissal from the program.

Master of Engineering in Electrical Engineering

Course Number and Title	Credits
Graduate EE Courses Graduate courses in electrical engineering; all courses to be selected with student input and approved by the supervisory committee.	18-30
Other Graduate Courses Graduate courses in electrical engineering or a related field; all courses to be selected with student input and approved by the supervisory committee.	9-12
Comprehensive Examination EE 600 Assessment (P/F)	1
TOTAL	**31**

Special Rule on Transfer Credit. The normal transfer credit policies of the Graduate College hold except that up to 15 transfer credits earned in combination at the University of Idaho and Idaho State University may be applied to either degree program (M.S.EE or M.Engr. EE) with the approval of the supervisory committee.

Course Offerings

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

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 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 411/511.

EE 518 MEMORY CIRCUIT DESIGN (3-0-3)(F/S)(Alternate years). Transistor level design of memory circuits. Memory technologies including DRAM, Flash, MRAM, Glass-based, and SRAM will be discussed. The course will be a practical introduction to the design of memory circuits. PREREQ: EE 510.

E**E 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 323.

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 521 ADVANCED TOPICS IN SEMICONDUCTOR DEVICES (3-0-3)(F/S). Study of advanced semiconductor devices, particularly photonic, microwave, power, and high temperature/radiation resistant devices, including physics and applications. TCAD simulation and modeling of these devices will be included. PREREQ: EE 420.

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 wil teach on-wafer microwave measurement techniques. Topics wil include: Short-channel CMOS device physics, Parasitic CMOS device elements, Advanced small-signal bulk 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 420/520.

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 230 and either 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). 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.

EE 540 INTRO TO INTEGRATED CIRCUIT AND MEMS PROCESSING (3-0-3). Fundamentals of integrated circuit and micro electromechanical systems (MEMS) fabrication technology; semiconductor substrates; theory of unit processes such as diffusion, oxidation, ion implantation, rapid thermal processing, photolithography, wet etching and cleaning, dry etching, thin-film deposition; chemical mechanical polishing; process integration; metrology; statistical process control; TCAD. COREQ: EE 540L. PREREQ: EE 320 or PERM/INST.

EE 540L INTRO TO INTEGRATED CIRCUIT AND MEMS PROCESSING LAB (0-3-1)(F). Semiconductor cleanroom practices; heavy lab safety; students will fabricate and test simple structures in lab; application of TCAD to practical problems. COREQ: EE 540.

EE 541 ADVANCED TOPICS IN SILICON TECHNOLOGY (3-0-3) (S). Advanced models for unit processes such as diffusion, oxidation, ion implantation, thin film deposition, etching, rapid thermal processing, chemical mechanical polishing, lithography. CMOS, bipolar, and micro electro mechanical systems (MEMS) process integration. Process and device modeling using TCAD. PREREQ: 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 542, 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 550 COMMUNICATION SYSTEMS (3-0-3)(S). Signals, noise, propagation and protocol in analog and digital communication systems. Bandwidth, Fourier transforms, signal to noise ratio and receiver noise figures. Introduction to modern wireless communication systems such as cellular, wireless data and satellite data systems. PREREQ: EE 350.

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 350.

EE 556 PATTERN RECOGNITION (3-0-3)(S)(Alternate years). Basic concepts of statistical and neural pattern recognition. Structure of pattern classification problems. Mathematics of statistical decision theory; multivariate probability functions, discriminant, parametric and nonparametric techniques. Bayesian and maximum likelihood estimation, feature selection, dimensionality reduction, neural network recognition and clustering. PREREQ: COMPSCI 117 or COMPSCI 125, and either MATH 360 or MATH 361.

EE 557 DIGITAL IMAGE PROCESSING (3-0-3)(S)(Alternate years). 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: EE 350, and either COMPSCI 117 or COMPSCI 125, or 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 350 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 360 or PERM/INST.

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 (3-0-3)(S). Magnetic materials and magnetic circuits, Transformers. Principles of electromechanical energy conversion, energy and coenergy concepts, forces and torques of electromagnetic origin. Introduction to rotating machines including synchronous machines and induction machines. PREREQ: EE 225 and EE 390.

EE 571 ELECTRIC MOTOR DRIVES (3-0-3)(F)(Offered even-numbered years). 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 360 and EE 470, or PERM/INST.

EE 572 POWER ELECTRONICS (3-0-3)(F). Power electronic switches, diode and controlled rectifiers, AC-AC phase control, DC-DC converters, inverters, introduction to electric drives and power quality fundamentals. PREREQ: EE 225.

EE 573 POWER SYSTEM ANALYSIS (3-0-3)(S). Three-phase AC systems, generators, transformers, transmission lines, one-line diagrams, per-unit system, network calculations, power-flow studies, power-flow control and regulation. PREREQ: EE 225, EE 390.

EE 574 POWER SYSTEM CONTROL (3-0-3)(F/S)(Offered only upon sufficient student interest). Faulted power system operation, symmetrical components, power system protection, transient stability, economic dispatch, automatic generation control, voltage and reactive power control. PREREQ: EE 473.

Master of Arts in English

Department of English
Liberal Arts Building, Room 228
Telephone 208 426-1246
FAX 208 426-4373
http://english.boisestate.edu/grad/
e-mail: cmartin@boisestate.edu

Director of M.A. in English: Carol A. Martin
Department Chair: Bruce Ballenger
Full Graduate Faculty: Bruce Ballenger, John Battalio, Devan Cook, Martin Corless-Smith, Jon P. Dayley, Janet Holmes, Daryl Jones, Helen Lojek, James H. Maguire, Mike Markel, Carol A. Martin, Marcy Newman, Jacqueline O'Connor, Steven Olsen-Smith, Michelle Payne, Tara Penry, Bruce Robbins, Mary Ellen Ryder, Rena Sanderson, R. Ken Sanderson, Gail Shuck, Louis Simon, Tom Trusky, Karen Uehling, Jan Widmayer, Mitchell Wieland, Linda Marie Zaerr
Associate Graduate Faculty: Elise Blackwell, Ann Campbell, Michael Mattison, Tom Peele

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 Graduate Assistantships in Teaching and in the Writing Center. These assistantships offer a waiver of tuition and fees, including out-of-state tuition, and in addition carry a stipend of over $9,500. Complete applications for assistantships are due February 10, 2005. In order to be considered for an assistantship, applicants must also submit **all** materials required for admission to the M.A. in English program by that date. Applicants should plan to apply to the program,

have all undergraduate transcripts sent, arrange for letters of recommendation, and take the Graduate Record Exam well before this deadline. A list of program requirements is below. Information on assistantship applications can be obtained from the website or by emailing the director at the addresses listed above.

Students who do not wish to enroll in a degree program but would like to take a course of interest should consult with the Director, Carol A. Martin, about whether the prerequisite of program admission can be waived.

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 Graduate Admission and Degree Services, MS-1110, Boise State University, 1910 University Dr., 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 Graduate Admission and Degree Services. 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 the M.A. in English.
5. A writing sample of 8 to 10 pages, preferably academic writing completed within the past two years. For students who completed their undergraduate work more than one year before their application, professional writing of similar length, such as, but not limited to a grant proposal, a newsletter, or a business report may be submitted to fulfill this requirement. The applicant's writing sample, in all cases, should be accompanied by a brief statement of the context for which the writing was done. This writing sample should be sent directly to the Director of the M.A. in English.
6. Three confidential letters of recommendation from people who know the applicant's academic work, sent directly to the Director of the M.A. in English.

Degree Requirements

Master of Arts in English

Course Number and Title	Credits
The Master of Arts in English offers two options for completion of the degree. The first is a 33-hour thesis/project option, which requires 15 hours of core courses and 15 hours of general electives plus a 3-credit these or project. This option is designed particularly for students who plan to continue their studies in a doctoral program, students whose concentration is in composition and rhetoric, and others who wish to engage in an intensive research and writing experience in their final semester. The other is a 36-hour course work degree, which includes 15 hours of core requirements and 21 hours of general electives. This degree is designed for students who wish to study a wide range of literature, rhetoric and composition, linguistics, English Education and/or Technical Communication courses.	
Core Requirements: ENGL 500 Seminar in English Studies ENGL 561 Theories of Rhetoric and Composition OR ENGL 588 Survey of Critical Theory ENGL 510 Seminar in Major American or English Writer ENGL 530 Studies in a Literary Period 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 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	 3 3 3 6
Electives: To be selected from other graduate offerings in Literature, Linguistics, English Education, Rhetoric and Composition, Creative Writing, and Technical Communication. The electives may include ENGL 598 Seminar for Teaching Assistants, a maximum of six credits of ENGL 400G courses, and a maximum of three credits of independent work in ENGL 590, ENGL 595, and/or ENGL 596.	15

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Master of Arts in English (continued)	
Thesis or project option: students take 3 credits of ENGL 591 Project or ENGL 593 Thesis in their final semester. With the help of an advisor, the student selects a thesis or project topic and prepares a prospectus before the student's final semester. After completion of the thesis or project, the student must pass an oral defense. Course work option: students take six additional hours of electives as described above, for a total of 21 hours of electives.	3-6
Additional Information: No credits taken outside the English Department may be applied toward graduation requirements. Only three (3) credits of Thesis or Project may be applied toward graduation requirements. No more than six credits earned in pass/fail or workshop courses may be applied toward a graduate degree (see Graduate Catalog under "Academic Policies, Credit Limits for Pass/Fair Courses, Workshops, and Directed Research").	
TOTAL	**33-36**

Master of Arts in English, English Education	
Course Number and Title	**Credits**
The English Education emphasis offers a combination of English teaching methods courses, English electives, and College of Education master's level courses leading to certification for Secondary English teaching.	
Required courses in English:	
ENGL 500 Seminar in English Studies	3
ENGL 501 The Teaching of Writing	3
ENGL 581 Literature for Use in Junior and Senior High Schools	3
ENGL 580 English Teaching: Writing, Literature, and Language	3
English Electives: Courses to be selected from graduate offerings in Literature, Linguistics, English Education, Rhetoric and Composition, Creative Writing, and Technical Communication.	6
ENGL 600 Assessment English Comprehensive Examination Based on guidance from advisory committee, preparation and successful completion of comprehensive essay examination.	3
College of Education graduate courses:	
ED-CIFS 505 Philosophy of Education	3
ED-CIFS 538 Learning and Instruction	4
ED-LTCY 544 Content Literacy in Secondary Schools	3
ED-SPED 550 Secondary Exceptional Needs	3
TOTAL	**34**

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Master of Arts in English, English Education (continued)	
Not part of the English M.A. Education strand, but required for teaching certification: EDTECH 202 Educational Technology.....3 ED-CIFS 560 Teaching Experience I (50 hours school experience).....1 ED-CIFS 561 Professional Year—Teaching Experience II (100 hours school experience).....2 Professional Year Teaching Experience* .....10 *EDCIFS 562 and 564 or ED-CIFS 565 or ED-CIFS 566	
Students should meet with the Director of the M.A. program before they begin their course work. If prior undergraduate work at Boise State University or at another institution indicates that a student has studied the body of course material for any of the required courses before being admitted to the program, one or more required courses may be waived.** In that case, the student may substitute English electives to meet the degree requirement of 34 credits. **At the discretion of the Director of the Program, a maximum of nine transfer graduate credits may be counted toward the degree.	

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 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 with focus on secondary school. Emphasis on research about the learning process in writing and the teacher's role in creating effective writing instruction. COREQ: ENGL 581.

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. PREREQ: Admission to Master of Arts in English program or Master of Fine Arts in Creative Writing program or PERM/CHAIR. (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. PREREQ: Admission to Master of Arts in English program or Master of Fine Arts in Creative Writing program or PERM/CHAIR. (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. PREREQ: Admission to Master of Arts in English program or Master of Fine Arts in Creative Writing program or PERM/CHAIR. (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. PREREQ: Admission to Master of Arts in English program or Master of Fine Arts in Creative Writing program or PERM/CHAIR. (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. PREREQ: Admission to Master of Arts in English program or Master of Fine Arts in Creative Writing program or PERM/CHAIR. (Repeatable for credit.)

ENGL 580 ENGLISH TEACHING: WRITING, LITERATURE, AND LANGUAGE (3-0-3)(F/S). Research, theories, issues, and methods of teaching secondary school English language arts; instructional planning; and integration of composition, literature, and language instruction. COREQ: EDUC 544 and EDUC 561.

ENGL 581 LITERATURE FOR USE IN JUNIOR AND SENIOR HIGH SCHOOLS (3-0-3)(F,S). 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: Two literature courses or PERM/INST. COREQ: ENGL 501.

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 and admission to Master of Arts in English program or Master of Fine Arts in Creative Writing program or PERM/CHAIR. .

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. PREREQ: Admission to Master of Arts in English program or Master of Fine Arts in Creative Writing program or PERM/CHAIR.

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 XML/XHTML.

ENGL 598 SEMINAR FOR TEACHING ASSISTANTS (3-0-3)(F). Focuses on 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.

ENGL 600 ASSESSMENT: English Comprehensive Examination (3 Credits). Based on guidance from their faculty advisory committee, students prepare for and successfully complete their comprehensive essay-style examination.

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. Focuses 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 208 426-4270
FAX 208 426-1894
e-mail: lpetlic@boisestate.edu

Graduate Program Coordinator: Linda Petlichkoff
Department Chair: Lynda Ransdell
Full Graduate Faculty: Chad Harris, Werner Hoeger, Bill Kozar, John McChesney, Linda Petlichkoff, Ron Pfeiffer, Caile Spear, Ross Vaughn
Associate Graduate Faculty: Kenneth Bell, Mark DeBeliso, Terry-Ann Gibson, Shelley Lucas, Jane Shimon
Adjunct Graduate Faculty: Paul Baehr, Gregory Mondin, James Moore, Jeff Pitman, Kevin Shea

General Information

The Master of Science Degree in Exercise and Sport Studies is designed to accommodate students with diverse academic backgrounds. The program offers three areas of emphasis: Behavioral, Biophysical and Socio-Historical.

Students are required to complete a minimum of 3 credits from each area of emphasis (CORE REQUIREMENT), plus 6 credits in "Methods of Inquiry." The student, in conjunction with his/her advisor, selects additional classes to meet the credit hour requirement for the chosen area of emphasis. All students MUST complete a thesis.

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 Select one course from each of the following areas: Behavioral Studies KINES 530 Psychology of Exercise & Sport .....3 KINES 560 Motor Learning .....3 Biophysical Studies KINES 500 Functional Anatomy .....3 KINES 510 Physiology of Activity .....3 KINES 520 Biomechanics .....3 Socio-historical Studies KINES 535 Sociology of Exercise & Sport.....3 KINES 550 Philosophy of Exercise & Sport 3	9
Modes of Inquiry KINES 551 Research Design in Exercise and Sport .....3 **Select one of the following courses:** KINES 552 Applied Statistical Methods .....3 EDUC 503 Fundamentals of Educational Research .....3 EDUC 513 Theoretical Fundamentals of Bilingual Education/ESL .....3 EDUC 552 Advanced Theory of Instructional Design in Special Education.....3 HIST 500 Historians and Historical Interpretation .....3 PSYCH 405G Advanced Statistical Methods .....3 SOC 500 Advanced Social Statistics.....3 SOC 502 Qualitative Social Research Methods ...3 SOC 571 Feminist Sociological Theory.....3	6
Electives Approved by Graduate Committee See areas of emphasis.	15-18
KINES 593 Thesis	6
TOTAL	**36**

Master of Science in Exercise and Sport Studies, Behavioral Studies

Course Number and Title	Credits
Core Requirements	9
Methods of Inquiry	6
Approved Electives Suggested courses include, but are not limited to the following: KINES 365G Social Psychology of Physical Activity ....3 KINES 375G-376G Human Growth and Motor Learning & Lab....3 KINES 510 Physiology of Activity ....3 KINES 520 Biomechanics ....3 KINES 530 Psychology of Exercise and Sport ....3 KINES 535 Sociology of Exercise and Sport....3 KINES 560 Motor Learning ....3 KINES 570 Health Promotion....3 KINES 580 Selected Topics in Applied Sport Psychology....3 KINES 596 Directed Research ....3 PSYCH 331G The Psychology of Health....3	15
KINES 593 Thesis	6
TOTAL	**36**

Master of Science in Exercise and Sport Studies, Biophysical Studies

Course Number and Title	Credits
Core Requirements	9
Methods of Inquiry	6
Approved Electives Suggested courses include, but are not limited to the following: BIOL 331G Pharmacology....3 KINES 330G and 331G Exercise Physiology and Lab....3 KINES 370G and 371G Biomechanics and Lab....3 KINES 500 Functional Anatomy....3 KINES 515 Exercise Physiology Lab ....3 KINES 520 Biomechanics ....3 KINES 525 Mechanical Analysis of Motor Activities....3 KINES 540 Applied Principles of Conditioning ...3 KINES 545 Exercise Testing and Prescription....3 KINES 570 Applied Principles of Conditioning....3 ME 486G Human Factors Design ....3 MHLTHSCI 522 Management for Health Professionals ....3 MHLTHSCI 530 Developing In-service Education....3 MHLTHSCI 548 Counseling Techniques for Health Professionals ....3 MHLTHSCI 550 Current Issues in Health Policy ..3	15

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Master of Science in Exercise and Sport Studies (continued)

MHLTHSCI 555 Program Evaluation in Health Delivery Systems....3 MHLTHSCI 560 Risk Management in the Health Sciences ....3 ZOOL 401G Human Physiology....3	
KINES 593 Thesis	6
TOTAL	**36**

Master of Science in Exercise and Sport Studies, Socio-historical Studies

Course Number and Title	Credits
Core Requirements	9
Methods of Inquiry	6
Approved Electives Suggested courses include, but are not limited to the following: EDUC 505 Philosophy of Education ....3 EDUC 513 Theoretical fundamentals of Bilingual Education/ESL....3 HIST 334G U.S. Social and Cultural History ....3 HIST 503 The Historian and the Classroom....3 KINES 535 Sociology of Exercise and Sport....3 KINES 550 Philosophy of Exercise and Sport ....3 SOC 510 Conflict and Change in Socio-Cultural Systems....3 SOCWK 512 Human Development Through the Life Cycle ....3 SOCWK 514 Ethnicity, Gender and Class....3 SOCWK 521 Social Dimensions of Human Behavior....3	15
KINES 593 Thesis	6
TOTAL	**36**

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 prosection. 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 APPLIED STATISTICAL METHODS (MHLTHSCI 552)(3-0-3)(F,S). An introduction to statistical techniques utilized in the treatment of data. The techniques to be covered include measures of central tendency and variability, correlation measures, probability, analysis of variance, and regression analysis. PREREQ: Completion of an undergraduate statistics or measurement course.

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 (MHLTHSCI 570) (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.

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 593 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: lpetlic@boisestate.edu

Graduate Program Coordinator: Linda Petlichkoff
Department Chair: Lynda Ransdell
Full Graduate Faculty: Werner Hoeger, Bill Kozar, Linda Petlichkoff, Ron Pfeiffer, Caile Spear, Ross Vaughn
Associate Graduate Faculty: Kenneth Bell, Mark DeBeliso, Terry-Ann Gibson, Chad Harris, Shelley Lucas, John McChesney, Jane Shimon, Connie Thorngren
Adjunct Graduate Faculty: Paul Baehr, Gregory Mondin, James Moore, Jeff Pitman, Kevin Shea
Idaho State University Graduate Faculty: Mike Lester, 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 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. If accepted, apply for admission to BSU and provide your acceptance letter from ISU. An application fee must be paid to each institution.** Courses from both institutions that are offered in Boise will be printed in the BSU *Schedule 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 BSU for all ISU and BSU courses taken in Boise in accordance with the procedures stated in the *Boise State University Schedule of Classes*.

Students will pay fees to BSU 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 BSU. 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....9 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	15 or 15
TOTAL	**33**

Master of Fine Arts in Creative Writing

Department of English
Liberal Arts Building, Room 228
Telephone 208 426-2195
FAX 208 426-4373
http://english.boisestate.edu/mfa
e-mail: jholmes@boisestate.edu

Director of Creative Writing: Janet Holmes
Department Chair: Bruce Ballenger
Full Graduate Faculty: Bruce Ballenger, John Battalio, Devan Cook, Martin Corless-Smith, Jon P. Dayley, Janet Holmes, Daryl Jones, Helen Lojek, James H. Maguire, Mike Markel, Carol A. Martin, Roger Munger, Marcy Newman, Jacqueline O'Connor, Steven Olsen-Smith, Michelle Payne, Tara Penry, Bruce Robbins, Mary Ellen Ryder, Rena Sanderson, R. Ken Sanderson, Gail Shuck, Louis Simon, Tom Trusky, Karen Uehling, Jan Widmayer, Mitch Wieland, Linda Marie Zaerr
Associate Graduate Faculty: Elise Blackwell, Ann Campbell, Michael Mattison, Tom Peele

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 three to five 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 Teaching Assistantships. These assistantships include waivers of tuition and fees, resident or non-resident, and a stipend of over $9,000. 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 Graduate Admission and Degree Services, MS-1110, 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 Graduate Admission and Degree Services. 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

The 48-credit Master of Fine Arts in Creative Writing degree offers a combination of creative writing, form and theory, professional editing, book arts, composition and rhetoric, linguistics, literature, and technical communication courses.

Master of Fine Arts in Creative Writing	
Course Number and Title	**Credits**
Workshops: ENGL 522 Poetry Writing Workshop ENGL 523 Fiction Writing Workshop ENGL 524 Creative Nonfiction Writing Workshop Students are admitted into the program in one genre of concentration. Four workshops must be taken in this declared genre.	12
MFA Courses ENGL 502 Teaching Creative Nonfiction, Poetry, and Fiction Writing ENGL 507 Small Press Production ENGL 508 Writing, Editing, and Designing for Professional Advancement ENGL 509 Book Arts ENGL 526 Form and Theory of Poetry ENGL 526 Form and Theory of Fiction ENGL 526 Form and Theory of Creative Nonfiction, Writing ENGL 590 Internship Students must take at least three courses; additional courses may be applied toward English Department Electives.	9
English Department Electives: Students must choose 500 level courses from at least two of the following areas: Composition/Rhetoric, Creative Writing, Linguistics, Literature, Technical Communication, or Internship. One 400-level G writing course allowed. ENGL 598 required for Teaching Assistants.	18
Electives: Graduate courses, any discipline NOTE: May include 400-level G courses.	3
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)(F/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/S). 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 CREATIVE NONFICTION, POETRY, AND FICTION WRITING (3-0-3)(F/S). Theories and practices for teaching secondary school students, college students, and others how to write in genres such as creative nonfiction, poetry, and fiction. Emphasis is on teaching in classroom and workshop settings. PREREQ: Admission to program or PERM/INST.

ENGL 507 SMALL PRESS PRODUCTION (3-0-3)(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 522 POETRY WRITING WORKSHOP (3-0-3)(F/S). An advanced workshop in poetry. Students will write poems, submit their work for the critique of the workshop and contribute to the discussion of others' writing. Readings may be assigned to address particular issues of craft and genre. Repeatable for credit; course must be taken a minimum of four times if this is the degree candidate's genre. PREREQ: Admission to program or PERM/INST.

ENGL 523 FICTION WRITING WORKSHOP (3-0-3)(F/S). An advanced workshop in fiction. Students will write fiction, submit their work for the critique of the workshop and contribute to the discussion of others' writing. Readings may be assigned to address particular issues of craft and genre. Repeatable for credit; course must be taken a minimum of four times if this is the degree candidate's genre. PREREQ: Admission to program or PERM/INST.

ENGL 524 CREATIVE NONFICTION WRITING WORKSHOP (3-0-3)(F/S). An advanced workshop in creative nonfiction. Students will write creative nonfiction, submit their work for the critique of the workshop and contribute to the discussion of others' writing. Readings may be assigned to address particular issues of craft and genre. Repeatable for credit; course must be taken a minimum of four times if this is the degree candidate's genre. PREREQ: Admission to program or PERM/INST.

ENGL 532 FORM AND THEORY OF POETRY (3-0-3)(F/S). An intensive study of aspects of craft in poetry. Course will expose students to particular methods, approaches, and techniques in poetry

and their aesthetic effects. May be taken twice for credit. PREREQ: Admission to program of PERM/INST.

ENGL 533 FORM AND THEORY OF FICTION (3-0-3)(F/S). An intensive study of aspects of craft in fiction. Course will expose students to particular methods, approaches, and techniques in fiction and their aesthetic effects. May be taken twice for credit. PREREQ: Admission to program of PERM/INST.

ENGL 534 FORM AND THEORY OF CREATIVE NONFICTION (3-0-3)(F/S). An intensive study of aspects of craft in creative nonfiction. Course will expose students to particular methods, approaches, and techniques in creative nonfiction and their aesthetic effects. May be taken twice for credit. PREREQ: Admission to program of PERM/INST.

ENGL 590 INTERNSHIP (0-10-3). An internship with a publishing entity, such as *The Idaho Review* or Ahsahta Press. Course may be taken twice for credit.

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 XML/XHTML.

ENGL 598 SEMINAR FOR TEACHING ASSISTANTS (3-0-3)(F). Focuses on 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 426-3450
FAX 208 426-1243
e-mail: artdept@boisestate.edu
http://www.boisestate.edu/art/

Graduate Program Director: Cheryl Shurtleff-Young
Department Chair: Richard Young
Full Graduate Faculty: Jim Blankenship, James Budde, Heather Hanlon, Gary Rosine, Cheryl Shurtleff-Young, Brent Smith, John Taye, Ron Taylor, Lee Ann Turner, Richard Young
Associate Graduate Faculty: Stephanie Bacon, Laurie Blakeslee, Francis Fox, John Francis, Larry McNeil, Tudor Mitroi, Kimiko Miyoshi, Anika Smulovitz
Adjunct Graduate Faculty: Karen Brown, Kathleen Keys, Nick Newman

General Information

The Department of Art offers a minimum two year, full time Master of Fine Arts degree program with an emphasis in painting, drawing, alternative media, photography, 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, 9 credits of general electives, 3 credits in seminar and 6 credits in thesis.

Students admitted to the program will be provided with semi-private studio space. Graduate faculty will hold 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 awarded competitively. Assistantships include a nonresident tuition waiver, a resident fee waiver, and a stipend. Assistants must enroll for a minimum of nine credit hours each semester and meet any other requirements as set forth by the Graduate College. Applications are available on the website and must be received by February l5.

Admission Requirements and Application Procedures

Admission Requirements. An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations in this catalog). In addition, the applicant must hold a B.A., B.F.A., or M.A. degree in Art. Admission is competitive and the achievement of minimum requirements does not guarantee admission.

Application Procedures. A prospective student must follow the general graduate application procedure for degree-seeking students (see Applying as a Degree-Seeking Student in this catalog).

The prospective M.F.A. in Art, Visual Arts student must also submit the following to the graduate program director in the Department of Art by February 15 (**Fall admission only**):

A. A statement of purpose giving the educational and professional background of the student and his or her motivation to pursue the graduate program, including professional studio objectives and how these will be furthered by graduate study.
B. Three letters of recommendation from professionals in the field.
C. A minimum of twenty (20) labeled slides of a recent body of work with an accompanying artist statement and slide list.
D. Self-addressed, stamped envelope.

Degree Requirements

Master of Fine Arts, Visual Arts. Students must complete at least 60 graduate credits distributed as shown in the degree requirements table. At least 48 of the 60 credits used to meet the degree requirements must be earned at Boise State University since admission to the program.

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	3
Thesis	6
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 BC-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.

ART 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.

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 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.

ART 596 DIRECTED RESEARCH

ART 597 SPECIAL TOPICS

ART 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: jmcnamar@boisestate.edu

Graduate Program Coordinator: James McNamara
Department Chair: C. J. Northrup
Full Graduate Faculty: Warren Barrash, Michael Knoll, Mitchell Lyle, James McNamara, Paul Michaels, C.J. Northrup, John R. Pelton, Walter S. Snyder, Craig M. White, David Wilkins
Associate Graduate Faculty: Partha Routh, Mark Schmitz
Adjunct Graduate Faculty: John Bradford, William P. Clement, Thomas M. Clemo, Vladimir I. Davydov, Mary Donato, Virginia Gillerman, Verne Oberbeck, James Osiensky, Kurt L. Othberg, Mark Seyfried, Edward Squires, Karen Viskupic

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, hydrology, 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 may enroll in the ISU/BSU cooperative program and 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.

Students are encouraged to attach to the department's home page at: http://earth.boisestate.edu for information about potential thesis topics, ongoing research, and current activities within the research units of the department.

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, and appointment of Supervisory Committees for graduate students.

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 jmcnamar@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 601 Graduate Orientation.....2 GEOL 534 Graduate Field Geology 1	3
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
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**

Credit Requirements:
All 30 credits must be taken for a letter grade, except for GEOL 593 Thesis credit which will be graded Pass/Fail.

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 Geology. 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 geology 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 Boise State University Graduate College also govern the Master of Science in Geology degree program.

Graduate Certificate in Geospatial Information Analysis

This certificate program is interdisciplinary in its application of geospatial technologies towards solving problems with spatial elements, and is open to graduate students of any major where geospatial information technologies and analysis may be applied. This alignment of courses is designed to meet the demands in industry and research where demonstrable literacy in these technologies and software is required.

Graduate Certificate in Geospatial Information Analysis

Course Number and Title	Credits
GEOG 560 Introduction to Geographic Information.....3 GEOG 561 Remote Sensing and Image Processing .....3 GEOG 562 Geographic Information Analysis.....3 GEOG 563 Geospatial Project.....3	12
TOTAL	**12**

Course Offerings

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

GEOG — GEOGRAPHY

GEOG 560 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (2-2-3)(F/S)(Lab fee). Designed for graduate students with no background in geographic information systems, or GIS, who wish to use these techniques in their research. Introduces the student to GIS concepts and principles. PREREQ: PERM/INST.

GEOG 561 REMOTE SENSING AND IMAGE PROCESSING (2-2-3)(F/S)(Lab fee). Introduces students to acquisition, interpretation, and analysis of digital imagery. Applications presented in different contexts including forestry, geology, ecology, and urban planning. Lab exercises focus on digital image processing, georeferencing, and image interpretation and analysis. PREREQ: GEOG 560 or PERM/INST.

GEOG 562 GEOGRAPHIC INFORMATION ANALYSIS (2-2-3) (F/S)(Lab fee). For graduate students with previous GIS experience or course work. Covers the operations and spatial analysis capabilities of a GIS, including spatial data models and data structure, spatial data management, and the spatial statistical analyses used to solve various problems. PREREQ: GEOG 561 or PERM/INST.

GEOG 563 GEOSPATIAL PROJECT (1-6-3)(F/S)(Lab fee). For graduate students with extensive previous GIS experience or course work. Students will independently identify a problem, design, implement and complete a project utilizing geospatial techniques and analysis of that problem. This course and the project are intended to supplement thesis or dissertation research. PREREQ: GEOG 562 or PERM/INST.

GEOG 570 EARTH SYSTEM SCIENCE AND GLOBAL WARMING (GEOL 570)(3-0-3)(F/S). Survey of interactions among physical biogeochemical processes involved in climate and climate beed back. Explore in detail scenarios of global warming for the next century and their reliability. PREREQ: PERM/INST.

GEOL — GEOLOGY

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 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 512 HYDROGEOLOGY (CE 512)(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: MATH 170.

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 PHYSICAL HYDROLOGY (3-0-3)(S)(GEOPH 516). An introduction to all aspects of physical hydrology with emphasis on the dynamics of watersheds. Topics include global circulation, precipitation, evapotranspiration, snow and snowmelt, streamflow, rainfall-runoff relations, and watershed hydrology. PREREQ: MATH 170, GEOL 101.

GEOL 517 WATERSHED PROCESSES (3-0-3)(F)(GEOPH 517). 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 HYDROLOGIC MEASUREMENTS AND MODELING (3-0-3)(F)(Alternate years). An introduction to hydrologic data acquisition techniques with an emphasis on electronic logging systems, and an overview of computer models commonly used to simulate hydrologic processes. PREREQ: GEOL 416 or PERM/INST.

GEOL 519 FIELD METHODS IN MARINE GEOLOGY AND GEOPHYSICS (GEOPH 519)(4-0-4)(F/S/SU). Participation in a research oceanographic cruise. Modern navigation methods, geophysical data acquisition, and sediment sampling. Offered only as research cruises are available. Will require 15-60 days at sea. May be taken for Geology or Geophysics credit, but not both. PREREQ: PERM/INST.

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 530 VADOSE ZONE HYDROLOGY (CE 530)(3-0-3)(F). Laboratory and field methods for characterizing physical and hydraulic properties of soils, solution of variably saturated flow problems using analytical and numerical techniques. Computer simulations of flow and transport in variably saturated soils. Course may be taken for either Geology or Civil Engineering credit, but not both. PREREQ: CE 412, or GEOL 412, or CE 512, or GEOL 512, or PERM/INST.

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 533 CONTAMINANT TRANSPORT (CE 533)(3-0-3)(S). The fate and transport of dissolved solutes and non-aqueous phase liquids in groundwater systems. Students will analyze field data and develop conceptual models for contaminated sites. The role of engineers and hydrologists in environmental litigation will be addressed through case studies. Course may be taken for Geology or Civil Engineering credit, but not both. PREREQ: CE 412, or CE 512, or GEOL 412, or GEOL 512, or PERM/INST.

GEOL 534 GRADUATE FIELD STUDY (1-2-1)(F). Design and completion of a narrowly-focused field investigation in the first semester of graduate study in geological sciences. Work w/faculty to choose topic, guidance on data collection and presentation, scientific illustration and report writing.

GEOL 540 TECTONICS SEMINAR (2-0-2)(F/S). Examination of specific orogenic systems, tectonic environments, and tectonic processes. PREREQ: GEOL 314 and 323, or PERM/INST.

GEOL 541 PLATE TECTONICS (3-0-3)(F/S). Reviews and clarifies geologic and geophysical foundations of plate tectonic theory. Characteristics of modern tectonic environments and their use in interpreting the Earth's geologic history. Offered upon sufficient student interest. PREREQ: PERM/INST.

GEOL 542 CURRENT LITERATURE IN STRUCTURE AND TECTONICS (1-0-1)(F/S). Examination, presentation, and discussion of current literature in structure and tectonics. PREREQ: GEOL 314 or PERM/INST.

GEOL 552 NATURE OF SCIENCE (3-0-3)(F/S). Explores basic questions of how the Earth works from the perspective of the scientist. Emphasis on the conceptual approach to science. Interactive lectures and short writing assignments. Open to students with varied backgrounds. PREREQ: GEOL 102.

GEOL 560 VOLCANOLOGY (3-0-3)(F)(Field trip required) (Alternate years). Study of volcanic processes and deposits, with focus on advances in volcanology since 1980 eruption of Mt. St. Helens. Course content aimed at students desiring to improve skills in working with volcanic rocks in the context of the geologic record, as well as students interested in volcanic hazards assessment. PREREQ: Graduate standing in geosciences 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 570 EARTH SYSTEM SCIENCE AND GLOBAL WARMING (GEOG 570)(3-0-3)(F/S). Survey of interactions among physical biogeochemical processes involved in climate and climate feed back. Explore in detail scenarios of global warming for the next century and their reliability. PREREQ: 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 572 ISOTOPE GEOCHEMISTRY AND GEOCHRONOLOGY (3-0-3)(F/S). Comprehensive overview of theory, methods, and applications of isotope geochemistry and geochronology to a wide range of earth science problems. PREREQ: PERM/INST.

GEOL 580 SELECTED TOPICS IN WATERSHED HYDROLOGY (1-3 credits)(F). Detailed investigation of select hydrologic processes and applications. Topics will vary each year and may include runoff generation, snow hydrology, watershed management, hydrologic modeling, sediment transport, land-use hydrology and field methods among others. Repeatable for credit. PREREQ: PERM/INST.

GEOL 591 PROJECT (7-3 to 0-6). 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.

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.

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: 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.

GEOL 601 GRADUATE ORIENTATION (2-0-2)(F). General orientation to the graduate program in Geology. Introduction to the necessary forms and requirements of the program and development of technical writing skills through the preparation of abstracts, proposals for research funding, and thesis proposals.

GEOL 607 PALAEOCLIMATOLOGY AND PALAEOOCEANOGRAPHY (GEOPH 607)(3-0-3)(F)(Alternate years). Will survey the driving forces of atmospheric and oceanic circulation, their effect on the distribution of life on earth, and how this information can be retrieved from the geological record. Course may be taken for either Geology or Geophysics credit, but not both. PREREQ: GEOL 201 or PERM/INST.

GEOL 611 BASIN ANALYSIS (3-0-3)(S). Study of the formation and evolution of sedimentary basins. Emphasis on the concepts and qualitative tools necessary to understand how sedimentary basins are formed, their specific stratigraphic architectures, and modern approaches to correlation.

GEOL 623 ADVANCED HYDROGEOLOGY (GEOPH 623, CE 623)(3-0-3)(F). Treatment of groundwater occurrence and flow, theory, fundamental mechanisms, hydrologic parameters, flow regimes and systems, geologic controls. Course may be taken for either Geology, Geophysics or Civil Engineering credit, but not both. PREREQ: GEOL 412, MATH 275, MATH 233, or PERM/INST.

GEOL 624 APPLIED HYDROGEOLOGY (GEOPH 624)(3-0-3) (S). Quantitative determination of hydrologic parameter values and groundwater flow conditions. Conceptual models, geologic context, boundary conditions, analytical and numerical solution techniques, measurement methods, applications to engineering and environmental problems. Course may be taken for either Geology or Geophysics credit, but not both. PREREQ: GEOL 623 and GEOPH 623 or PERM/INST.

GEOL 632 INTERPRETATION OF DEEP SEA SEDIMENTS (GEOPH 632)(3-0-3)(F/S). Reconstruction of past ocean conditions through interpretation of deep sea sediments in terms of their composition and depositional environment. Links to ocean circulation, chemistry, and biological productivity. Course may be taken for either Geology or Geophysics credit, but not both. PREREQ: PERM/INST.

GEOL 641 GEODYNAMICS (GEOPH 641)(3-0-3)(F/S). Identifies and quantitatively analyzes the processes governing the dynamic behavior of Earth at a variety of spatial and temporal scales. Offered upon sufficient student interest. Course can be taken for GEOPH or GEOL credit, but not both. PREREQ: PERM/INST.

GEOL 672 ISOTOPE GEOCHEMISTRY AND GEOCHRONOLOGY (3-0-3)(S)(Alternate years). Comprehensive overview of theory, methods, and applications of isotope geochemistry and geochronology to a wide range of earth science problems. PREREQ: 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 208 426-1929
FAX 208 426-4061
email: pm@cgiss.boisestate.edu

Graduate Program Coordinator: Paul Michaels
Department Chair: C. J. Northrup
Full Graduate Faculty: Warren Barrash, Paul Dawson, Molly Gribb, Michael D. Knoll, Mitchell Lyle, James P. McNamara, Paul Michaels, C. J. Northrup, John R. Pelton, Dale Russell, Walter S. Snyder, Craig M. White, David Wilkins
Associate Graduate Faculty: Partha Routh, Mark Schmitz
Adjunct Graduate Faculty: John Bradford, William P. Clement, Thomas M. Clemo, Mary M. Donato, Virginia Gillerman, Mark Seyfried, Karen Viskupic

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 January 7 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, 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) 426-1929 or email: pm@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 605 (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, mathematics, 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.

Final Oral Examination:
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

GEOPH — GEOPHYSICS

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 mechanical deformation and seismic and electromagnetic wave propagation. Required core class for all geophysics graduate students. PREREQ: GEOPH 303 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 thermal processes and the dynamics of fluids. Required core class for all geophysics graduate students. PREREQ: GEOL 412 and 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.

GEOPH 516 PHYSICAL HYDROLOGY (3-0-3)(S)(GEOL 516). An introduction to all aspects of physical hydrology with emphasis on the dynamics of watersheds. Topics include global circulation, precipitation, evapotranspiration, snow and snowmelt, streamflow, rainfall-runoff relations, and watershed hydrology. PREREQ: MATH 170, GEOL 101.

GEOPH 517 WATERSHED PROCESSES (3-0-3)(F)(GEOL 517). 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.

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 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 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 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 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, 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 605 INVERSION THEORY AND GEOPHYSICAL APPLICATIONS (3-0-3)(F). Application of the concepts of inverse theory to problems in geophysics and geophysical imaging. Continuous (integral) and discrete methods, with emphasis on latter. Review of linear algebra, eigenvalue decomposition, basis functions, basis vectors, metrics, objective functions, transformation and

representation, error analysis, linear and nonlinear inverse methods, gradient descent methods, grid searches, simulated annealing. Computer laboratory exercises. PREREQ: MATH 301.

GEOPH 607 PALAEOCLIMATOLOGY AND PALAEOOCEANOGRAPHY (GEOL 607)(3-0-3)(F)(Alternate years). Will survey the driving forces of atmospheric and oceanic circulation, their effect on the distribution of life on earth, and how this information can be retrieved from the geological record. Course may be taken for either Geology or Geophysics credit, but not both. PREREQ: GEOL 201 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, CX 360, GEOPH 605; 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, GEOL 412, GEOPH 605; or PERM/INST.

GEOPH 623 ADVANCED HYDROGEOLOGY (GEOL 623) (3-0-3)(F). Treatment of groundwater occurrence and flow, theory fundamental mechanisms, hydrologic parameters, flow regimes and systems, geologic controls. Course may be taken for either Geology or Geophysics credit, but not both. PREREQ: GEOL 412, MATH 275, MATH 233, or PERM/INST.

GEOPH 624 APPLIED HYDROGEOLOGY (GEOL 624) (3-0-3)(S). Quantitative determination of hydrologic parameter values and groundwater flow conditions. Conceptual models are geologic context, boundary condition, analytical and numerical solution techniques, measurement methods, applications to engineering and environmental problems. Course may be taken for either Geology or Geophysics credit, but not both. PREREQ: GEOL 623 and GEOPH 623 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 632 INTERPRETATION OF DEEP SEA SEDIMENTS (GEOL 632)(3-0-3)(F/S). Reconstruction of past ocean conditions through interpretation of deep sea sediments in terms of their composition and depositional environment. Links to ocean circulation, chemistry, and biological productivity. Course may be taken for either Geology or Geophysics credit, but not both. PREREQ: 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 641 GEODYNAMICS (GEOL 641)(3-0-3)(F/S). Identifies and quantitatively analyzes the processes governing the dunamic behavior of Earth at a variety of spatial and temporal scales. Offered upon sufficient student interest. Course can be taken for GEOPH or GEOL credit, but not both. 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, 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 605; 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 605 or PERM/INST.

GEOPH 693 DISSERTATION.

Master of Science in Geophysics

Department of Geosciences
Math/Geosciences Building, Room 225
Telephone 208 426-1929
FAX 208 426-4061
email: pm@cgiss.boisestate.edu

Graduate Program Coordinator: Paul Michaels
Department Chair: C. J. Northrup
Full Graduate Faculty: Warren Barrash, Paul Dawson, Molly Gribb, Michael D. Knoll, Mitchell Lyle, James P. McNamara, Paul Michaels, C. J. Northrup, John R. Pelton, Dale Russell, Walter S. Snyder, Craig M. White, David Wilkins
Associate Graduate Faculty: Partha Routh, Mark Schmitz
Adjunct Graduate Faculty: John Bradford, William P. Clement, Thomas M. Clemo, Mary M. Donato, Virginia Gillerman, Mark Seyfried, Karen Viskupic

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 Assistantships, Teaching and Research Fellowships

Graduate assistantships and 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 January 7 of any given year will be considered for a state appropriated or endowed graduate assistantships and 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.

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, and appointment of Supervisory Committees for graduate students.

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.

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

GEOPH — GEOPHYSICS

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 mechanical deformation and seismic and electromagnetic wave propagation. Required core class for all geophysics graduate students. PREREQ: GEOPH 303 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 thermal processes and the dynamics of fluids. Required core class for all geophysics graduate students. PREREQ: GEOL 412 and 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.

GEOPH 516 PHYSICAL HYDROLOGY (3-0-3)(S)(GEOL 516). An introduction to all aspects of physical hydrology with emphasis on the dynamics of watersheds. Topics include global circulation, precipitation, evapotranspiration, snow and snowmelt, streamflow, rainfall-runoff relations, and watershed hydrology. PREREQ: MATH 170, GEOL 101.

GEOPH 517 WATERSHED PROCESSES (3-0-3)(F)(GEOL 517). 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.

GEOPH 519 FIELD METHODS IN MARINE GEOLOGY AND GEOPHYSICS (4-0-4)(F/S/SU)(GEOL 519). Participation in a research oceanographic cruise. Modern navigation methods, geophysical data acquisition, and sediment sampling. Offered only as research cruises are available. Will require 15-60 days at sea. May be taken for Geology or Geophysics credit, but not both. PREREQ: PERM/INST.

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 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 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 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 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, 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: stoevs@boisestate.edu

Graduate Program Director: Sarah Toevs
Full Graduate Faculty: Les Alm, John Freemuth, James Girvan, Richard Kinney, James Munger, Sara LaRiviere, Elaine Long, Uwe Reischl, Larry Reynolds, Robert Rychert, Caile Spear, Mark Snow, Dale Stephenson, Sarah Toevs, James Weatherby, Stephanie Witt
Associate Graduate Faculty: Patricia Elison-Bowers, Margaret Downey, Ann Payne, Theodore McDonald, Pamela Springer, Patricia Taylor
Adjunct Graduate Faculty: Pat Aksamit, Marnie Basom, Gerald Dunaway, Mark Emerson, Gary Falk, Andrea Fletcher, Susan Gelletly, Christine Hahn, Elizabeth Hannah, Margaret Henbest, Lyla Hill, Chris Johnson, Bonnie Lind, Galen Louis, Patricia McGavran, Alison Miller, Joanne Mitten, John Moeller, Richard Olsen, Linda Powell, Richard Remington, Ted Ryan, Leslie Schoch, Norman Semanko, Beth Stamm, Robert Sterling, Kurt Stevenson, Helen Stroebel, Nancy Van Maren, Pamela Weinberg, Stephen West
Emeritus Graduate Faculty: Rudy Andersen, Conrad Colby

General Information

The Master of Health Science (MHS) 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, 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. Students can complete a MHS degree and/or a Graduate Certificate in Health Services Leadership or Addiction Studies.

Although the MHS program 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

Students interested in the MHS program must first submit a graduate application to Graduate Admission and Degree Services. If approved, the applicant receives a certificate of

admission to enroll in courses at BSU. This certificate is a prerequisite to admission into the MHS program, but does not by itself guarantee admission into the MHS program. (The student is advised to consult the General 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 MHS program must meet the following requirements prior to enrollment in MHS courses:

1. Meet with the Program Director to discuss the admission process, the applicant's career interests, and reasons for seeking admission to the MHS program.
2. Possess a baccalaureate degree from an accredited institution. Preference will be given to applicants with education and work experience in a health-related field. See catalog for work experience requirements for Health Promotion, Health Services Leadership, and Environmental Health emphasis areas.
3. Demonstrate satisfactory academic competency be 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, or minimum of 475 on GMAT, or a minimum predictive score of 50 on the MAT.
4. Submit official transcripts from all previous academic institutions to Graduate Admission and Degree Services.
5. Submit three letters of reference, in which the applicant's academic potential is evaluated, to the Director, Master of Health Science Program, Boise State University, 1910 University Drive, Boise, ID 83725-1800. (For applicants whose academic record predates the application by five years or more, supervisors may submit letters of recommendation.)
6. Submit a formal statement of at least 250 words explaining the applicant's educational and career objectives and how those objectives correspond with the MHS program at Boise State University.
7. Provide evidence to the MHS Program Director or individual course instructors that course prerequisites are met. See Graduate Catalog for list of course offerings.

Applicants who do not meet all of the above requirements MAY be recommended by the MHS 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. Applicants selecting the health policy emphasis area 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 that 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 Applied Statistical Methods .....3 MHLTHSCI 555 Program Evaluation in the Health Sciences.....3 MHLTHSCI 579 Applications in Biostatistics and Epidemiology in Public Health.....3	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 Health Promotion.....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 Health Promotion.....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 Health Promotion.....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
DISPUT 501 Human Factors in Conflict Management.....1 DISPUT 502 Negotiation Theory and Practice....1 DISPUT 503 Conflict Intervention Methods.....1 ECON 440G Health Economics.....3	12

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Master of Health Science, Health Services Leadership (continued)	
MHLTHSCI 522 Management for Health Professionals .....3 MHLTHSCI 525 Leadership for Health Professionals 3	
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.	

Health Science Internship

Students are expected to have work experience in some part of environmental health, health care delivery, addiction studies, 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 science internship. The student, in consultation with her/his supervisory committee, will identify the appropriate internship experience.

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, project, or case study 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 requirements of emphasis area and the student's committee. The case study option may be created in lieu of a thesis or project by completing additional elective credits and a case study designed by the student's committee. 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.

Supervisory Committee

Students admitted with regular or provisional admission status will be appointed a supervisory committee whose purpose is to establish, with the student, a program of study and internship requirements; to guide the student's thesis, project, or case study; to conduct the thesis/project/case study defense; to approve the final thesis/project/case study; and to administer the comprehensive examination (written and oral). The supervisory committee consists of at least three individuals, including a chair who assumes the role of graduate advisor and

at least two other committee members. The committee must be established no later than advancement to candidacy.

Graduate Certificate in Addiction Studies

General Information

The Graduate Certificate in Addiction Studies is an interdisciplinary program offered by the College of Health Sciences and the College of Education with faculty involvement from the Master of Health Science (MHS) program and Master of Arts in School Counseling (MASC) program. The certificate is designed for professionals employed in substance abuse education, prevention, or intervention settings, and will prepare students for a variety of positions in the addiction studies field. The certificate meets the didactic experiences required to become a nationally credentialed Master Addictions Counselor (MAC) if the student hold a master's degree in counseling, and an Idaho Certified Alcohol and Drug Counselor (CADC) or Advanced Certified Alcohol and Drug Counselor (ACADC) if the student holds a related graduate degree. For people who are currently in recovery for substance abuse, sobriety for the previous 24 months is strongly recommended.

Admission Requirements and Application Procedures

Admission Requirements: Applicants are required to hold a baccalaureate degree from an accredited institution, to have completed MHLTHSCI 545/COUN 545 Foundations in Chemical Dependency or its equivalent, and must have achieved a cumulative undergraduate GPA of at least 3.00 on a 4.00 scale. However, these minimum requirements do not guarantee admission to the program. Admission recommendations will be based upon a review of the applicant's transcripts and resume, letters of reference, statement of purpose, and an interview.

Application Procedures: An applicant should follow the general application procedures for graduate degree-seeking students (see Applying as a Degree-Seeking Student in the Graduate Admission Policies and Procedures section of this catalog). In addition, an applicant must submit the following documents to the Graduate Certificate Program Advisor in either the College of Health Sciences or College of Education: (1) a resume, (2) a statement of purpose, and (3) three letters of reference from previous professors evaluating the applicant's academic potential. (For applicants whose academic record predates the application by five years or more, supervisors may submit the letters of reference.) The statement of purpose should explain the student's motivation for pursuing a graduate certificate in addiction studies and describe his or her career interests. Once the applicant's file is complete, the Addiction Studies Graduate Certificate Committee will review it and qualified candidates will be invited to an interview. Upon completion of the interview an admission recommendation (regular, provisional, or denial) will be forwarded to the directors of the MHS and MASC programs. In the case of a recommendation for provisional admission, the Committee will also recommend the stipulations that must be satisfied by the student to advance to regular status. The final decision on admission is made by the Graduate College which will formally notify the applicant. Admission to the Certificate in Addiction Studies does not guarantee subsequent admission to any other certificate or graduate degree programs.

Certificate Requirements

The courses specified below are required for the completion of the graduate certificate in addiction studies.

Graduate Certificate in Addiction Studies

Course Number and Title	Credits
MHLTHSCI 544/COUN 541 Alcohol/Drug Abuse and the Family	3
MHLTHSCI 547/COUN 547 Chemical Addictions and Violence Prevention	3
MHLTHSCI 543/COUN 543 Assessing and Managing Adolescent Substance Abuse and Mental Health Risks	3
MHLTHSCI 564/COUN 544 Assessment of Alcohol and Drug Problems, Part I	3
MHLTHSCI 565/COUN 546 Assessment of Alcohol and Drug Problems, Part II	3
MHLTHSCI 567/COUN 567 Clinical Supervision Principles and Practice	1
MHLTHSCI 568/COUN 550 Diagnoses, Assessment and Treatment Planning	2
TOTAL	**18**

Students who wish to enroll in courses other than those specified may do so by permission of the Addiction Studies Graduate Certificate Committee. Course prerequisites and permission of the instructor must also be met.

Graduate Certificate in Health Services Leadership

The postgraduate Certificate in Health Services Leadership is designed for health professionals employed in state and local health agencies, health care institutions and in private practice. The goal of the certificate program is to prepare students for a variety of leadership and management positions in health related organizations.

Application and Admissions Requirements

Students interested in the Graduate Certificate in Health Services Leadership must first submit a graduate application to Graduate Admission and Degree Services. If approved, the applicant receives a certificate of admission to enroll in courses at Boise State University. This certificate is a **prerequisite** to admission into the Graduate Certificate program, but does not by itself guarantee admission into the certificate program. (The student is advised to consult the General 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 Graduate Certificate in Health Services Leadership

program must meet the following requirements prior to enrollment in certificate courses:

1. Possess a baccalaureate degree in a health-related field from an accredited institution.
2. Demonstrate satisfactory academic competency by attaining an overall GPA of at least 3.0 in previous college-level course work.
3. Meet with the MHS Program Director to discuss the admission process, the applicant's career interests, and reasons for seeking admission to the certificate program.
4. Submit three letters of reference, in which the applicant's academic potential is evaluated, to the Director, Master of Health Science Program, Boise State University, 1910 University Drive, Boise, ID 83725-1800. (For applicants whose academic record predates the application by five years or more, supervisors may submit letters of recommendation.)
5. Submit letter of interest and resume to MHS Program Director.
6. Provide evidence to the MHS Program Director or individual course instructors that course prerequisites are met.

Applicants who do not meet all of the above requirements MAY be allowed to enroll in the Certificate program 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.

Certificate Requirements

A minimum of 15 credits is required for the completion of the Graduate Certificate in Health Services Leadership. The curriculum comprises 12 credits of required course work and 3 additional credits of elective courses.

Graduate Certificate in Health Services Leadership

Course Number and Title	Credits
MHLTHSCI 522 Management for Health Professionals	3
MHLTHSCI 525 Leadership for Health Professionals	3
MHLTHSCI 529 Marketing for Health Professionals	3
DISPUT 501 Human Factors in Conflict Management	1
DISPUT 502 Negotiation Theory and Practice	1
DISPUT 503 Conflict Intervention Methods	1
A minimum of three credits from one of the following: ECON 440G Health Economics.....3 IPT 536 Introduction to Instruction and Performance Technology .....4 MHLTHSCI 550 Current Issues in Health Policy..3	3-4

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.

DISPUT — DISPUTE RESOLUTION

DISPUT 500 BASIC MEDIATION SKILLS (3-0-3)(F/S). Students learn the theoretical foundations of negotiation and mediation, types of mediation, mediation models, mediation case work skills, building the mediation plan, interpersonal communication skills for mediation, and various resolution techniques. Students will mediate several simulated and/or actual practice cases.

DISPUT 501 HUMAN FACTORS IN CONFLICT MANAGEMENT (1-0-1)(F/S). This course presents communication theories to assist managers in understanding, analyzing, and managing conflict. The course focuses on the causes of conflict, and includes the influence of gender and culture. This course is pragmatic as well as theoretical.

DISPUT 502 NEGOTIATION THEORY AND PRACTICE (1-0-1) (F/S). The successful manager in professional settings is involved in a variety of negotiation activities. The tactics, strategies, and operations of effective and ineffective bargaining/negotiating behaviors will be presented. The course develops negotiator skills and knowledge leading to collaborative based actions and solutions.

DISPUT 503 CONFLICT INTERVENTION METHODS (1-0-1) (F/S). This course overviews the various contexts of third party intervention into conflicts: facilitation, public involvement processes, mediation, and arbitration and develops skills at first level supervisor/manager intervention into employee conflicts.

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.

HLTHST — HEALTH STUDIES

HLTHST 480G EPIDEMIOLOGY (3-0-3)(F/S). Study of the distribution and determinants of disease within human populations. PREREQ: Upper-division standing and HLTHINFO 205 or MATH 254 or PSYC 295 or SOC 310, or PERM/INST.

IPT INSTRUCTIONAL PERFORMANCE TECHNOLOGY

IPT 532 ETHNOGRAPHIC RESEARCH IN ORGANIZATIONS (3-0-3)(F). Ethnography is an approach to learning about the social and cultural life of communities, organizations, institutions and other settings that discovers how the activities of people in those settings contribute to the creation of society and culture. Students receive a foundation in philosophical perspectives and methods supporting ethnographic research, learn when to conduct ethnographic research, and explore strategies for presenting and critiquing ethnographic research. They will also be provided with an opportunity to implement ethnographic research in organizational settings. PREREQ: IPT 536.

IPT 536 INTRODUCTION TO INSTRUCTIONAL AND PERFORMANCE TECHNOLOGY (4-0-4)(F). This course provides students with an overview of the field of Instructional and Performance Technology. Students study the historical and theoretical foundations of the field and learn about prominent figures and important events that contributed to the development of the field.

Students produce mini-projects by applying performance improvement principles and models to real or realistic organizational settings.

IPT 540 APPLICATIONS OF LEARNING STYLES IN INSTRUCTIONAL AND PERFORMANCE TECHNOLOGY (3-0-3) (F). The behavioral characteristics exhibited by different learning/cognitive styles, modalities, personality types, multiple intelligences, and emotional intelligences will be explored. Related preferences for different learning environments, media, instructional and testing methods will be examined, as well as the utility of these constructs for addressing performance problems in the workplace.

MBA — MASTER OF BUSINESS ADMINISTRATION

MBA 522 ACCOUNTING AND FINANCIAL ANALYSIS (3-0-3)(F). Introduces basic concepts, standards, and practices of financial reporting so students can read and understand published financial statements. Fundamentals of accounting and finance as it relates to developing a framework for analyzing a firm's investment and financing decisions are emphasized. Topics may include income statement and balance sheet preparation, as well as valuation and capital budgeting techniques.

MBA 527 CREATION AND DISTRIBUTION OF GOODS AND SERVICES (3-0-3)(S). An introduction to the creation and distribution of goods and services. Course integrates both marketing and operations management concepts and will discuss the activities associated with product pricing, product promotion, and the manufacturing and delivery of goods and services.

MBA 531 STRATEGIC PERSPECTIVES (1-0-1)(F,S). Examines the five major forces transforming business: boundaries of the firm, market and competitive analysis, dynamics of developing and sustaining advantages, internal organization, major forces in the environment. MBA students should take MBA 531 the first semester of their advanced course work. PREREQ: MBA 512, MBA 514, MBA 522, MBA 527.

MBA 534 INFORMATION TECHNOLOGY FOR MANAGERS (3-0-3)(S). Examines management's role in designing, implementing, and managing information systems, and the role of information and information technology for achieving a competitive advantage. PREREQ/COREQ: MBA 531.

MBA 535 LEGAL ISSUES IN BUSINESS RELATIONSHIPS (3-0-3)(S). Exposes future managers to the major legal issues involved in intellectual property, private and public equity financing, cyber law, and product liability. Emphasis will be on what managers should know in order to make decisions that will not trigger legal problems. PREREQ/COREQ: MBA 531.

MBA 537 MANAGING PEOPLE IN ORGANIZATIONS (2-0-2)(F). Provides an opportunity to acquire knowledge and refine basic skills for managing the flow of employees into, through, and out of organizations. Human resource planning, employee recruitment, selection, performance coaching, and appraisal topics will be covered in the context of how policies and decisions support and further a company's strategic goals. The impact of changing technology and demographics on "best" practices for managers dealing with employees will be discussed.

MBA 538 ORGANIZATIONAL ISSUES (2-0-2)(S). Application of behavioral sciences principles and skills in an organizational setting. Emphasis is on an interactionist perspective (individual, group, and organizational dynamics), towards understanding behavior in organizations. Topics include team building, motivation, leadership, problem solving, negotiation, and self-management. The course is geared towards managers and the application of concepts to experience. PREREQ/COREQ: MBA 531.

MHLTHSCI — MASTER OF HEALTH SCIENCE

MHLTHSCI 501 EPIDEMIOLOGY FOR HEALTH PROFESSIONALS (2-0-2)(F/S/SU). Study of the distribution and determinants of disease within human populations. PREREQ: Graduate standing.

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 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 518 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.

MHLTHSCI 520 HEALTH CARE SYSTEMS ORGANIZATION AND ADMINISTRATION (2-0-2)(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 LEADERSHIP FOR HEALTH PROFESSIONALS (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 529 MARKETING FOR HEALTH PROFESSIONALS (3-0-3)(F/S). Examination of marketing models used in health and health care including identification of consumer needs, market segmentation, and designing a balanced marketing program. PREREQ: Admission to MHS program or HSL Graduate Certificate program or PERM/INST.

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 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 542 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.

MHLTHSCI 543 ASSESSING AND MANAGING ADOLESCENT SUBSTANCE ABUSE AND MENTAL HEALTH RISKS (COUN 543)(3-0-3)(S)(Odd years). Introduction to comprehensive adolescent risk assessment and treatment planning. Examination of current and available comprehensive adolescent assessments, current and available specialized assessments, report writing approaches and effective treatment processes. PREREQ: PERM/INST.

MHLTHSCI 544 ALCOHOL/DRUG ABUSE AND THE FAMILY (COUN 541)(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. This course may be taken for MHLTHSCI or COUN credit, but not both.

MHLTHSCI 545 FOUNDATIONS OF CHEMICAL DEPENDENCY (COUN 545)(3-0-3)(F/S). 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 547 CHEMICAL ADDICTIONS AND VIOLENCE PREVENTION (COUN 547)(3-0-3)(S)(Even years). Introduction to professional, ethical, legal, and practical aspects of chemical addictions and violence prevention (primary and secondary) in the schools and other setting (e.g., adolescent treatment). Examination of current research and available curriculum models, current identification and intervention approaches, and effective prevention programming. Historical and social contexts (e.g., Safe and Drug Free Schools and Communities Initiatives) also included. PREREQ: Graduate or Senior standing.

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 (COUN 549) (ED-CIFS 549)(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 only be taken once. PREREQ: PERM/INST.

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 (KINES 552)(3-0-3) (F,S). An introduction to statistical techniques utilized in the treatment of data. The techniques to be covered include measures of central tendency and variability, correlation measures, probability, analysis of variance, and regression analysis. 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 (COUN 544)(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. This course may be taken for MHLTHSCI or COUN credit, but not both.

MHLTHSCI 565 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART II (COUN 546)(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. This course may be taken for MHLTHSCI or COUN credit, but not both. PREREQ: MHLTHSCI 564 or COUN 544 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 567 CLINICAL SUPERVISION PRINCIPLES AND PRACTICE (COUN 567)(1-0-1)(F)(Even years). Theory and skill development for practitioners who are or will be supervising interns and/or professionals in school, agency, and other settings. Topics include ethical issues in clinical supervision, models and best practices, documentation, and troubleshooting problematic dynamics. PREREQ: PERM/INST.

MHLTHSCI 568 DIAGNOSES, ASSESSMENT AND TREATMENT PLANNING (COUN 550)(2-0-2)(F)(Odd Years). Examination of concepts of "mental disorders," DSM classification systems, and the diagnostic benefits and diagnostic problems inherent in such systems. An introduction and overview of the major psychopathological syndromes of adolescents and adults (especially in the area of Co-morbidity of Substance Abuse/Dependence and other DSM IV diagnoses) to facilitate appropriate use of assessment–diagnostic–treatment links (including treatment planning). PREREQ: PERM/INST.

MHLTHSCI 570 HEALTH PROMOTION (3-0-3)(F/S) (KINES 570). A critical examination of health promotion and education policy with an emphasis on planning, implementation and evaluation of health programs for various public sectors.

MHLTHSCI 579 APPLICATIONS IN BIOSTATISTICS AND EPIDEMIOLOGY (3-0-3)(F/S). Application of advanced statistical and epidemiological methods in health sciences and public health. Emphasizes the role statistics and epidemiology plays in problem solving and research. PREREQ: HLTHST 480-480G or MHLTHSCI 501 or equivalent and MHLTHSCI 552 or equivalent.

MHLTHSCI 590 PRACTICUM/INTERNSHIP (0-V-3).

MHLTHSCI 591 PROJECT (0-V-6).

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).

PSYCH PSYCHOLOGY

PSYCH 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.

PSYCH 438G COMMUNITY PSYCHOLOGY (3-0-3)(F,S). Focuses on human and social problems in a systemic context. Primary prevention and community empowerment strategies employed for individual, community, and social benefit are emphasized.

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.

SOC — SOCIOLOGY

SOC 500 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 502 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: Graduate standing.

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.

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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http://www.boisestate.edu:80/history
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Director of Graduate Studies: Nicholas Miller
Department Chair: Peter Buhler
Full Graduate Faculty: Peter Buhler, Allan Fletcher, Errol Jones, Nicholas Miller, Charles Odahl, Sandra Schackel, Todd Shallat, Shelton Woods, Michael Zirinsky
Associate Graduate Faculty: Barton Barbour, Lisa Brady, Joanne Klein, Lynn Lubamersky, Lisa McClain, Jill Gill
Adjunct Graduate Faculty: Ellis Knox, Carol MacGregor, Beverly Miller, 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 research. 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 through advanced course work. Students on this track must pass a cumulative examination. 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 that combines research, technology, writing, management and other related areas. Students on the Applied track complete a project to round out their program.

Major Fields

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 major 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 major fields. 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 Graduate Admission and Degree Services. 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: The first formal step toward a 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. The student must publicly defend the thesis or project at an oral examination scheduled by his or her advisory committee in either fall or spring semester.

Cumulative Exam: A four-hour cumulative exam prepared and graded by the student's committee is the culminating activity for students in the Education track.

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 Boise State University Graduate Admission and Degree Services.

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 3.0 with 3.2 in history and 3.2 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
Approved Electives Outside of History	6
Approved History Electives	6
HIST 595 Readings and Conference (in Area)	9
Approved History or Non History Elective	3
HIST 591 Project	3
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
Approved History Electives .....27 OR Approved History Electives.....18 Approved Electives Outside of History.....9	27

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Master of Arts in History, Education (continued)

Cumulative Exam	0
TOTAL	**33**

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
Approved History Electives.....21 OR Approved History Electives.....12 Approved Electives Outside of History.....9	21
HIST 593 Thesis.....6	6
TOTAL	**33**

Course Offerings

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

HIST — HISTORY

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 580 SELECTED TOPICS: GRADUATE SEMINAR IN EUROPEAN HISTORY (3-0-3). Critical analysis of source materials and historical scholarship on topics of restricted scope in European history. Emphasis placed upon student reports, class discussions, individual research on releavnt topics and the writing of historical papers. PREREQ: Admission to graduate program or PERM/CHAIR.

HIST 581 SELECTED TOPICS: GRADUATE SEMINAR IN U.S. HISTORY (3-0-3). Critical analyses of source materials and historical scholarship on topics of restricted scope in U.S. history. Emphasis placed upon student reports, class discussions, individual research on relevant topics and the writing of historical papers. PREREQ: Admission to the graduate program or PERM/CHAIR.

HIST 582 SELECTED TOPICS: GRADUATE SEMINAR IN REGIONAL HISTORY (3-0-3). Critical analyses of source materials and historical scholarship on topics of restricted scope in Regional history. Emphasis placed upon student reports, class discussions, individual research on relevant topics and the writing of historical papers. PREREQ: Admission to the 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

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Department of Instructional & Performance Technology Department Chair and Graduate Program Coordinator: David Cox
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Full Graduate Faculty: Yonnie Chyung, David Cox, Donald Stepich, Donald Winiecki
Adjunct Graduate Faculty: Bobbie Allaire, Marcia Belcheir, Larry Crookham, Gary Dickelman, Daniel Eastmond, Theodore Eisele, Robert Erickson, Peggy Ertmer, Jo Ann Fenner, Diane Gayeski, Linda Huglin, Patricia Johnson, Linda Lohr, Timothy Newby, Jack Phillips, Patricia Phillips, David Ripley, Penelope Schweibert, Mary Norris Thomas

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 and development, 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, human factors, ergonomic and environmental factors, 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.

On-Campus and Online Course Options

In addition to the traditional on-campus mode of delivering courses, the IPT Department has been in the forefront of technology-delivered education by offering its internationally recognized degree online since 1989. This option constitutes an entirely nonresident course of study for a complete M.S. in IPT. The on-campus and online options are fully accredited by the Northwest Commission on Colleges and Universities (NWCCU).

Online classes are conducted primarily through asynchronous computer conferencing via the Web or Lotus Notes client. Courses taught in this medium enable students to view the questions and comments of the instructor and students threaded in a natural flow of class discussion. It also promotes a high level of interaction between instructor and students and among class members.

Access to online courses makes it possible for students anywhere in the world who have Internet access to obtain a highly useful and versatile Master's degree. These courses have been especially helpful to full-time professionals who need flexibility in time and/or location. Evaluations show that students in the online courses are quite enthusiastic about the rigor and value of the academic experience they receive. Many have reported that these courses have substantially increased their capability and credibility in the workplace. Online courses also make it possible for students who relocate before finishing the on-campus program to complete the IPT degree from their new location.

The online option uses the *same admission standards and required courses as the on-campus option*. However, the fees are higher for the online courses than for on-campus courses, special equipment is required, and course offerings are scheduled through Extended Studies. The reason for the additional cost is that the online courses are entirely self-supporting and are not subsidized by state taxes. However, a discounted rate is available for Idaho residents and active military personnel. Online courses may follow a schedule different from the one in the course descriptions which follow. Schedules for online courses are available in an official release from Extended Studies and on the IPT website at http://ipt.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 of one academic year. Appointments are renewed at the discretion of the IPT Department. Graduate assistants must have been fully admitted into the IPT degree program, must enroll for a minimum of nine credit hours each semester, and must meet any other requirements as set forth by the Graduate College. Applications are available in the IPT office, the Graduate College office, or online. The application deadline is March 1 for the next academic year.

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 cumulative GPA of 3.0 for all undergraduate credits, or a 3.0 GPA for the last 60 credits of undergraduate course work. All course work must be verified by official transcripts. If a person fails to meet the GPA requirement, that person may submit a petition to the IPT Program Committee.
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 the application fee to Graduate Admission and Degree Services. Note: International students should submit the International Student Graduate Application, the 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 Graduate Admission and Degree Services. 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 submit a petition to the IPT Program Committee asking that the requirement be waived.
5. Students intending to take online courses must also complete the IPT Equipment Availability Checklist and have it verified by the IPT Systems Administrator. (Go to http://ipt.boisestate.edu/eac.htm)
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

Graduate Admission and Degree Services 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....4 IPT 535 Learning Theory for Instructional Designers....4 IPT 536 Introduction to Instructional and Performance Technology....4 IPT 537 Instructional Design....4 IPT 550 Delivery Technology for Instruction....4 IPT 560 Human Performance Technology....4	24
Thesis Option: Electives....6 IPT 593 Thesis (Oral defense required)....6 or **Project Option:** Electives....6 IPT 591 Project (Oral defense required)....6 or **Portfolio Option:** Electives (Oral defense required)....12 or **Nonthesis Option:** Electives....12 (Comprehensive examination required)	12
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 online. Suggestions: IPT 510 Collaborative Online Communications and Learning....1 IPT 520 Training Video Production....3 IPT 523 Authoring Skills for Instructional Multimedia....3 IPT 524 Internet Applications for IPT Professionals....3 IPT 525 E-Learning Principles and Practices....3 IPT 529 Needs Assessment....3	

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Master of Science in Instructional & Performance Technology (continued)

Electives (continued): IPT 531 Overview of Research Design, Measurement, and Statistics....3 IPT 532 Ethnographic Research in Organizations....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 594 Extended Conference or Workshop....Variable IPT 595 Readings and Conference....Variable IPT 596 Directed Research....Variable IPT 597 Special Topics....Variable IPT 598 Seminar....Variable	

Portfolio Option

A student selecting the portfolio experience will create and document products and projects from course projects, directed research, and work done for employers or clients in order to document accomplishment of required competencies. If this alternative is selected, at the end of a student's program the student will present and defend the portfolio and respond to any questions that the examining committee might ask. These questions will deal primarily with the way the projects in the portfolio relate to the field of IPT and with the student's explanations of why they conducted particular projects in the way presented. A student choosing the portfolio option will be required to declare that decision (using the appropriate form) before they enroll in their 19th credit. An application to follow the portfolio path must be accepted by the student's advisor and the Department Chair.

Academic Scholarship Requirement

The IPT program has high academic expectations for its students. In general, grades below B 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 IPT 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.

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 Boise State University.

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Master of Science in Instructional & Performance Technology (continued)

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 online IPT courses are invited to come to campus to participate in the project/thesis option, or they may pursue the nonthesis or portfolio 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 510 COLLABORATIVE ONLINE COMMUNICATIONS AND LEARNING (1-0-1)(F,S,SU). Students will learn technologies that help develop collaborative online learning communities and learn technical skills that help them become successful online learners. Students will examine synchronous and asynchronous online communications tools to facilitate small and large group communications, and conduct research using online library systems on the web.

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 525 E-LEARNING PRINCIPLES AND PRACTICES (3-0-3)(F). Students will explore theoretical foundations for implementing online instruction and knowledge management interventions. They will study e-learning standards, reusable learning objects, shareable content objects, and learning (content) management systems. Students will discuss issues in conducting e-learning readiness assessment. They will also experience designing online courses using a course management system. PREREQ: IPT 537.

IPT 529 NEEDS ASSESSMENT (3-0-3)(S). Through analysis of case studies, independent fieldwork, guided practice, professional readings, and other methods, students learn to use tools, data and systematic methods to assess organizational needs, identify performance problems and their causes, and help decision makers target the more critical problems to solve and the most feasible solutions. PREREQ: IPT 536.

IPT 530 EVALUATION METHODOLOGY (4-0-4)(S). 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. Students will gain hands-on experience, actually conducting one or more evaluations.

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 532 ETHNOGRAPHIC RESEARCH IN ORGANIZATIONS (3-0-3)(F). Ethnography is an approach to learning about the social and cultural life of communities, organizations, institutions and other settings that discovers how the activities of people in those settings contribute to the creation of society and culture. Students receive a foundation in philosophical perspectives and methods supporting ethnographic research, learn when to conduct ethnographic research, and explore strategies for presenting and critiquing ethnographic research. They will also be provided with an opportunity to implement ethnographic research in organizational settings. PREREQ: IPT 536.

IPT 535 LEARNING THEORY FOR INSTRUCTIONAL DESIGNERS (4-0-4)(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. They conduct a project to apply these principles to an authentic situation of instructional need

IPT 536 INTRODUCTION TO INSTRUCTIONAL AND PERFORMANCE TECHNOLOGY (4-0-4)(F). This course provides students with an overview of the field of Instructional and Performance Technology. Students study the historical and theoretical foundations of the field and learn about prominent figures and important events that contributed to the development of the field. Students produce mini-projects by applying performance improvement principles and models to real or realistic organizational settings.

IPT 537 INSTRUCTIONAL DESIGN (4-0-4)(F). This course gives an overview of several models for instructional systems design and examines the processes involved in designing effective instructional interventions. Working with a real client and instructional need, students conduct a full-scale instructional design project in phases over the duration of the course. 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). The behavioral characteristics exhibited by different learning/cognitive styles, modalities, personality types, multiple intelligences, and emotional intelligences will be explored. Related preferences for different learning environments, media, instructional and testing methods will be examined, as well as the utility of these constructs for addressing performance problems in the workplace.

IPT 550 DELIVERY TECHNOLOGY FOR INSTRUCTION (4-0-4) (F). Students investigate the applications of various types of media and technology to instruction and performance interventions. In the culminating class project, students analyze and evaluate authentic instructional packages by applying principles pertaining to the use of media and technologies in instruction. 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 (4-0-4)(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. In a hands-on project, 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 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 total of 6 semester hours from IPT 591 may be applied toward your program.

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 594 EXTENDED CONFERENCE OR WORKSHOP. Such as: Web Design and Development, Pathways to Performance, Systems Thinking in Action

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 total of 9 semester hours from IPT 596 may be applied toward your program.

IPT 597 SPECIAL TOPICS (3-0-3)(Variable). Such as: Leadership Principles for Performance Technologists, Creative Performance, Project Management, Literature Review Techniques, Analysis of Instructional Design Issues in Professional Practice, Performance Consulting, Effective Training Strategies, Interactive Strategies for Improving Performance

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: Daryl Jones

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 their education at the graduate level but do not seek specialized training in a single discipline. The program is not a substitute for the traditional graduate 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 will recommend 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. selection of a graduate committee composed of 3 graduate faculty members, one of whom is to serve as committee chair,
   c. meeting with graduate committee to discuss and prepare a degree plan,
   d. submission of a completed Personal Data form,
   e. submission of a completed form stating committee has met and approved that degree plan,
   f. 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.
   g. submission of transcripts and two letters of recommendation,
   h. 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 or a preliminary description of their proposed program of study may do so. 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 318
Telephone 208 426-1126
FAX 208 426-1135
http://cobe.boisestate.edu/graduate
e-mail: ranchust@boisestate.edu

Program Information: J. Renee Anchustegui
Graduate Studies Director: Kirk Smith
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, Sharon Tabor

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.

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 administrator.

Students are asked to subscribe to a listserv during their first semester of study. Instructions and a link are at http://cobe.boisestate.edu/graduate

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. Applications must be received in the Business Graduate Studies Office by February 15.

Application and Admission Requirements

The application for admission, transcripts, and fees should be sent to Graduate Admission and Degree Services, 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 B318.

Applicants should have a demonstrated interest in the application of information technology to organizational betterment and should be adept in at least two procedural programming languages.

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 discussing 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 complete admission packet no later than 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 Boise State University Graduate College are available from Graduate Admission and Degree Services. 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 83725-1600

Degree Requirements

Master of Science in Management Information Systems

Course Number and Title	Credits
Required Courses MIS 517 Database Management.....3 MIS 520 Advanced Systems Development.....3 BUSCOM 538 Managing Technical Communication .....3 MIS 550 Management of Information Technology..3 MIS 570 Project Management .....3 MIS 580 Data Communications and Networking..3	18
Elective Courses 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 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.	15
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.	

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Master of Science in Management Information Systems (continued)	
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).

BUSCOM — BUSINESS COMMUNICATION

BUSCOM 538 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 Science in Materials Science and Engineering

Master of Engineering in Materials Science and Engineering

Department of Materials Science and Engineering
Micron Engineering Center, Room 403C
Telephone 208 426-5719
FAX 208 426-5633
e-mail: roxford@boisestate.edu

Graduate Program Coordinator: Amy Moll
Graduate Program Information: Rex Oxford
Department Chair: Amy Moll
Full Graduate Faculty: Charles Hanna, William Knowlton, Amy Moll, Julia Thom Oxford, Dale Russell, Martin Schimpf
Associate Graduate Faculty: Francisco Lamelas, Alex Punnoose

General Information

The Department of Materials Science and Engineering offers two distinct graduate degree programs. The program leading to the Master of Science in Materials Science and Engineering (M.S. MSE) is a thesis-based program designed to prepare students for research and development and further study at the

doctoral level. The program leading to the Master of Engineering in Materials Science and Engineering (M.Engr. MSE) is a non-thesis program with a focus on professional development. Both programs are interdisciplinary and involve faculty members from the College of Engineering and the College of Arts and Sciences with expertise in electrical engineering, mechanical engineering, physics, chemistry, and biology.

Admission Requirements and Application Procedures

Admission Requirements. An applicant must satisfy the minimum admission requirements of the Graduate College. In addition, the applicant must hold a baccalaureate degree in engineering from an ABET-accredited program or a baccalaureate degree in physics or chemistry, and must follow the application procedures specified below. Admission is competitive and the achievement of minimum requirements does not guarantee admission.

Application Procedures. A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Applying as a Degree-Seeking Student in this catalog). The applicant must also (1) submit a statement of purpose to the graduate program coordinator, (2) have three letters of recommendation submitted directly by the references to the graduate program coordinator, and (3) arrange to have GRE General Test scores submitted by the Educational Testing Service (www.ets.org) directly to Boise State University (code R4018). The statement of purpose should give the educational and professional background of the student and his or her motivation for graduate study including career goals. Once the applicant's file is complete, it will be evaluated by the Materials Science and Engineering Graduate Studies Committee and an admission recommendation (regular, provisional, or denial) will be forwarded to the Dean of the Graduate College. In order to ensure proper mentoring of all graduate students, a recommendation for regular or provisional admission will not be forwarded unless a faculty member of the Department of Materials Science and Engineering is available to serve as the major advisor. The graduate dean will make the final admission decision and notify the applicant and the Materials Science and Engineering Graduate Studies Committee.

Advisor and Supervisory Committee

The Materials Science and Engineering Graduate Studies Committee will initiate the assignment of a supervisory committee for each admitted student. The supervisory committee will include a major advisor who serves as chair and at least two additional members appointed such that the committee contains a representative from the College of Engineering and from the College of Arts and Sciences. The role of the supervisory committee is to guide the student in all aspects of his or her graduate study.

Degree Requirements

Master of Science in Materials Science and Engineering. Students must complete at least 30 graduate credits distributed as shown in the degree requirements table. A written thesis proposal and oral presentation to the supervisory committee is required prior to the completion of 15 credits applicable to the degree requirements. Work on the thesis can only be undertaken after approval of the thesis proposal by the supervisory committee. The thesis must constitute an original contribution to knowledge in materials science and engineering and must be successfully defended at a final oral examination. All work directly related to the thesis must be represented by at least 6 credits of MSE 593, PHYS 593, or CHEM 593.

Master of Science in Materials Science and Engineering

Course Number and Title	Credits
Required Courses: MSE 505 Bonding and Structure of Materials .....3 MSE 508 Solid State Thermodynamics and Kinetics .....4 PHYS 515 Solid State Physics.....3 PHYS 523 Physical Methods of Materials Characterization 3	13
Other Graduate Courses Graduate courses selected from the list below and approved by the supervisory committee (at least 11 credits). MSE 510 Electrical, Optical, and Magnetic Properties of Materials.....3 MSE 511 Semiconductor Materials .....3 MSE 512 Mechanical Properties of Materials.....3 MSE 549 Advanced Topics in Materials Science and Engineering .....3 CHEM 401G Advanced Inorganic Chemistry .....3 CHEM 411G Analytical Chemistry .....3 CHEM 440G Spectrometric Identification.....3 EE 540 Intro to Integrated Circuit and Mems Processing .....3 EE 540L Intro to Integrated Circuit and Mems Processing Lab .....1 EE 542 Photolithography.....3 EE 542L Photolithography Lab .....1 EE 546 Frontiers of IC Processing .....3 PHYS 512 Introductory Quantum Mechanics .....3 PHYS 530 Optics.....3 PHYS 532 Thermal Physics.....3 PHYS 534 Optics Lab 1	11
Thesis MSE 593 or PHYS 593 or CHEM 593 Thesis (P/F)	6
TOTAL	**30**

Master of Engineering in Materials Science and Engineering. Students must complete at least 31 graduate credits distributed as shown in the degree requirements table. A maximum of 3 credits of MSE 696 Directed Research may be applied to meet the degree requirements. The comprehensive examination cannot be attempted prior to the last semester of the program. If the comprehensive examination is failed on the first attempt, then the student will be permitted a second

attempt. Failure on the second attempt will result in dismissal from the program.

Master of Engineering in Materials Science and Engineering

Course Number and Title	Credits
Required Courses: MSE 505 Bonding and Structure of Materials .....3 MSE 508 Solid State Thermodynamics and Kinetics .....4 PHYS 515 Solid State Physics.....3 PHYS 523 Physical Methods of Materials Characterization 3	13
Other Graduate Courses Graduate courses selected from the list below and approved by the supervisory committee (at least 17 credits). MSE 510 Electrical, Optical, and Magnetic Properties of Materials.....3 MSE 511 Semiconductor Materials .....3 MSE 512 Mechanical Properties of Materials.....3 MSE 549 Advanced Topics in Materials Science & Engineering 3 CHEM 401G Advanced Inorganic Chemistry .....3 CHEM 411G Analytical Chemistry .....3 CHEM 440G Spectrometric Identification 3 EE 540 Intro to Integrated Circuit and Mems Processing .....3 EE 540L Intro to Integrated Circuit and Mems Processing Lab .....1 EE 542 Photolithography.....3 EE 542L Photolithography Lab .....1 EE 546 Frontiers of IC Processing .....3 PHYS 512 Introductory Quantum Mechanics.....3 PHYS 530 Optics.....3 PHYS 532 Thermal Physics.....3 PHYS 534 Optics Lab 1	17
Comprehensive Examination MSE 600 Assessment (P/F)	1
TOTAL	**31**

Special Rule on Transfer Credit. The normal transfer credit policies of the Graduate College hold except that up to 15 transfer credits earned in combination at the University of Idaho and Idaho State University may be applied to either degree program (M.S. MSE or M.Engr. MSE) with the approval of the supervisory committee.

Course Offerings

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

CHEM - CHEMISTRY

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

CHEM 411G ANALYTICAL CHEMISTRY (3-0-3)(F). Advanced analytical methodology with a focus on modern chemical instrumentation, signal processing, and error analysis. PREREQ: CHEM 212 and CHEM 322.

CHEM 440G SPECTROMETRIC IDENTIFICATION (3-0-3)(S). Identification of compounds using modern spectrometric techniques. PREREQ: CHEM 318 and CHEM 321.

EE - ELECTRICAL ENGINEERING

EE 540 INTRO TO INTEGRATED CIRCUIT AND MEMS PROCESSING (3-0-3)(F). Fundamentals of integrated circuit and micro electromechanical systems (MEMS) fabrication technology; semiconductor substrates; theory of unit processes such as diffusion, oxidation, ion implantation, rapid thermal processing, photolithography, wet etching and cleaning, dry etching, thin-film deposition; chemical mechanical polishing; process integration; metrology; statistical process control; TCAD. COREQ: EE 540L. PREREQ: ENGR 320 or PERM/INST.

EE 540L INTRO TO INTEGRATED CIRCUIT AND MEMS PROCESSING LAB (0-3-1)(F). Semiconductor cleanroom practices; heavy lab safety; students will fabricate and test simple structures in lab; application of TCAD to practical problems. COREQ: EE 540.

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 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.

MSE - MATERIALS SCIENCE AND ENGINEERING

MSE 505 BONDING AND STRUCTURE OF MATERIALS (3-0-3) (F/S). Bonding, atomic arrangements and crystal structures of metals, ceramics, electronic materials and polymers; electronic structure of solids; physical properties of solids; defects in solids; relationship between processing, microstructure and properties of materials, PREREQ: ENGR 245.

MSE 508 SOLID STATE THERMODYNAMICS AND KINETICS (4-0-4)(F/S). The laws of thermodynamics, fundamental equation for multi-component elastic solids and electromagnetic media, equilibrium criteria. Application to solution thermodynamics, point defects in solids, phase diagrams. Phase transitions, Landau rule, symmetry rules. Interfaces, nucleation theory, elastic effects. Kinetics: diffusion of heat, mass and charge; coupled flows. PREREQ: CHEM 322 or ENGR 320 or PHYS 432.

MSE 510 ELECTRICAL, OPTICAL, AND MAGNETIC PROPERTIES OF MATERIALS (3-0-3)(F/S). Introduction to the physical principles underlying the electric, optical and magnetic properties of modern solids. Crystalline and energy band structure of materials, thermal properties and electrical conduction in semiconductors and metals, optical and magnetic properties of solids are covered. PREREQ: ENGR 245.

MSE 511 SEMICONDUCTOR MATERIALS (3-0-3)(F/S). Examination of the physical properties of semiconductors including

electronic structure, free carrier statistics, optical properties, crystallography, and defects. Study of thermodynamic properties as related to lattice vibrations and diffusion. PREREQ: ENGR 245.

MSE 512 MECHANICAL PROPERTIES OF MATERIALS (3-0-3) (F/S). Study of deformation and fracture in engineering materials, including elastic and plastic deformations; dislocation theory; alloy hardening and creep deformation; fracture mechanisms; linear elastic and nonlinear elastic fracture mechanics; toughening of metals, ceramics, and composites; environmentally assisted failure. PREREQ: ENGR 245.

MSE 549 ADVANCED TOPICS IN MATERIALS SCIENCE & ENGINEERING (3-0-3)(F/S)(Offered on demand). Selected advanced topics from current research in Materials Science and Engineering such as defects in solids, physics of thin films, nanomaterials, optoelectronics, computational materials science, corrosion, reliability physics. PREREQ: ENGR 245.

PHYS - PHYSICS

PHYS 512 INTRODUCTORY QUANTUM MECHANICS (3-0-3) (F/S). Introduction to fundamentals of quantum mechanics, including Schroedinger equation, energy levels, angular momentum, electron spin, perturbations, and scattering. Applications, such as tunneling, orbitals, magnetic resonance, and nanoscale effects. PREREQ: PHYS 309.

PHYS 515 SOLID STATE PHYSICS (3-0-3)(F/S). Quantum physics applied to understanding the properties of materials, including semiconductors, metals, superconductors, and magnetic systems. PREREQ: PHYS 309.

PHYS 523 PHYSICAL METHODS OF MATERIALS CHARACTERIZATION (3-0-3)(S). Physical principles and practical methods used in determining the structural, electronic optical, and magnetic properties of materials. Course topics will include optical, electron, and scanning microscopies, diffraction, surface analysis, optical spectroscopy, electrical transport, and magnetometry. Individual projects will focus on the application of an analytical technique to solve a specific problem. Prerequisite: PHYS 309 or permission of instructor.

PHYS 530 OPTICS (3-0-3). Geometrical and physical optics, including lenses, fiber optics, Fourier optics, polarization, interference, diffraction, lasers, and holography. PREREQ: PHYS 212, MATH 333. COREQ: PHYS 534.

PHYS 532 THERMAL PHYSICS (3-0-3)(S). Discussion of temperature, work, specific heat, and entropy. The laws of thermodynamics are discussed and applied to physical problems. Ideal gases, statistics, Gibbs free energy, and cryogenics. Work on heat transfer of lattice vibrations and phonons will be required. PREREQ: Graduate standing or PERM/INST.

PHYS 534 OPTICS LABORATORY (0-3-1). Laboratory to be taken concurrently with PHYS 530. Experiments in optics, including optical systems, thick lenses, interference, diffraction, Fourier optics, image processing, and holography. COREQ: PHYS 530.

Master of Science in Mathematics Education

Department of Mathematics
Math/Geosciences Building, Room 235
Telephone 208 426-1172
FAX 208 426-1356
http://math.boisestate.edu
e-mail: office@math.boisestate.edu

Graduate Program Coordinator: Sharon Walen
Department Chair: Alan Hausrath
Full Graduate Faculty: Tomek Bartoszynski, Phillip Eastman, Alex Feldman, Alan Hausrath, Randall Holmes, Margaret Kinzel, Mary Jarratt Smith, Joanna Kania-Bartoszynska, Otis Kenny, Charles Kerr, Daniel Lamet, Kathleen Rohrig, Marion Scheepers, Sharon Walen
Associate Graduate Faculty: Stephen Brill, Douglas Bullock, Jodi Mead

General Information

The curriculum of the Master of Science in Mathematics Education is designed to enhance the preparation of middle school, junior high school, and high school mathematics teachers. Since high quality preparation of teachers requires the integration of mathematical content and pedagogy, courses within the program are designed to extend candidates' understanding of both mathematical content and issues related to the teaching and learning of that content. Because of the varied backgrounds of the candidates, a student's course of study will be individually designed in consultation with the graduate committee to expand his or her existing knowledge and to assist the candidate in situating his or her particular grade-level content within the larger body of mathematics.

Because of the differing goals of candidates for the degree, there are two options available to students. The "High School" option is available to all candidates who meet admission requirements and the "Junior High School" option, directed primarily at junior high school and middle school teachers, is available to all candidates meeting admission requirements except those holding Standard Certification in Mathematics.

This degree will not lead to certification in Mathematics. People seeking secondary certification should consult with the Associate Chair of the Department of Mathematics to design a program leading to certification.

Admission Requirements

Application for admission may be made by graduates of accredited institutions holding a bachelor's degree in mathematics secondary education, mathematics, elementary education, or a related degree. Regular admission may be awarded to applicants based on having earned a minimum grade point average, mathematics classes taken, and letters of

recommendation. Continued enrollment in the program requires a minimum of 3.0 grade point average (B) and satisfactory progress toward a degree.

Degree Requirements

Master of Science in Mathematics Education

Course Number and Title	Credits
Required Mathematics Education Courses: MATHED 510 Mathematics Curriculum 7-12 .....2 MATHED 511 Survey of Research in Mathematics Education I .....2 MATHED 570 Advanced Mathematics Through Technology 3	7
Required Education Courses: EDUC 503 Fundamentals of Educational Research .....3 One of: EDUC 506 Issues in Education .....3 EDUC 510 The Culturally Diverse Learner .....3 EDUC 512 Second Language Methods and Materials .....3 EDUC 539 Teaching Gifted and Talented Students .....3 EDUC 550 Teaching Secondary Students With Exceptional Needs 3	6
All other courses to be taken in the degree program will be planned by the student and the graduate committee. It is expected that this schedule of courses will extend the candidate's mathematical preparation; therefore, content for which the candidate has received prior credit toward a degree may generally not be repeated. All candidates who do not have content in their previous education equivalent to MATH 187 must take MATH 501.	
Choose ONE of the following options: HIGH SCHOOL OPTION MATH Content Courses Courses with a MATH prefix less than 500 require the 'G' option All candidates who do not have content in their previous education equivalent to MATH 254, MATH 360, or MATH 361 must take a statistics course equivalent to one of these. (This requirement is in addition to the required 8 credits of MATH.) JUNIOR HIGH SCHOOL OPTION MATH OR MATHED Content Courses Must include at least one course with MATH prefix, 'G' option permitted. Must include one of: MATHED 523 The Teaching of Algebra .....2 or MATHED 524 The Teaching of Geometry.....2	8

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Master of Science in Mathematics Education (continued)

Free Electives: MATHED, Education, or another area (MATH 'G' option permitted)	6
Project or Thesis in MATH or MATHED	3-6
TOTAL	**30-33**
Note: The total number of G credits may be no more than one-third of the total credits.	

Course Offerings

MATH — MATHEMATICS

MATH 414G ADVANCED CALCULUS (4-0-4)(S)(Offered on demand odd-numbered years). Infinite series, sequences and series of functions, uniform convergence, theory of integration (Riemann and Stieltjes), further topics as time permits. PREREQ: MATH 275, MATH 301, MATH 314.

MATH 436G PARTIAL DIFFERENTIAL EQUATIONS (3-0-3)(F) (Offered on demand even-numbered years). Theory of partial differential equations and boundary value problems with applications to the physical sciences and engineering. Detailed analysis of the wave equation, the heat equation, and Laplace's equation using Fourier series and other tools. PREREQ: MATH 333.

MATH 456G LINEAR PROGRAMMING (4-0-4)(S)(Offered on demand even-numbered years). 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 465G NUMERICAL ANALYSIS (4-0-4)(S)(Offered on demand odd-numbered years). The application of numerical methods to the interpretation and analysis of data, solution of equations, general iterative methods, approximation of functions, and error analysis. PREREQ: MATH 301 or MATH 333 or PERM/INST.

MATH 490G MATHEMATICS IN SECONDARY SCHOOLS (3-0-3) (F). Objectives, content, and methods of secondary school mathematics programs. PREREQ: MATH 270 and six hours of mathematics completed at or above the 300-level or PERM/INST.

MATH 501 FOUNDATIONS OF MATHEMATICS (3-0-3)(SU). An introduction to the language and methods of reasoning used throughout mathematics, and to selected topics in discrete mathematics. Propositional and predicate logic; elementary set theory; introduction to proof techniques including mathematical induction; functions and relations; and basic principles of elementary number theory, combinatorial enumeration, and graph theory. PREREQ: MATH 143, MATH 147 or MATH 257.

MATH 505 ABSTRACT ALGEBRA (4-0-4)(F)(Offered on demand odd-numbered years). Sylow theorems, solvable groups, rings and ideals, rings of polynomials, factorization, fields and extensions, Galois Theory. PREREQ: MATH 301 and MATH 305.

MATH 511 INTRODUCTION TO TOPOLOGY (3-0-3)(S)(Offered on demand even-numbered years). Sets, metric spaces, topological spaces, continuous mappings, connectedness, compactness. PREREQ: MATH 314.

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 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 or PERM/INST.

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 EDUCATION

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.

MATHED 501 SURVEY OF PURE MATHEMATICS FOR TEACHERS (2-0-2)(SU). 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)(SU). 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 510 MATHEMATICS CURRICULUM 7-12 (2-0-2)(SU). 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 middle or secondary school mathematics.

MATHED 511 SURVEY OF RESEARCH IN MATHEMATICS EDUCATION I (2-0-2)(SU). Survey of current research in and discussion of issues relating to the teaching and learning of mathematics. PREREQ: Teaching certification or PERM/INST.

MATH 512 SURVEY OF RESEARCH IN MATHEMATICS EDUCATION II (2-0-2)(SU). Continuation of MATHED 511. PREREQ: MATHED 511.

MATHED 523 THE TEACHING OF ALGEBRA (2-0-2)(SU). Contemporary approaches to teaching secondary school algebra; treatment of selected topics in secondary school algebra; methods and materials; research relevant to the teaching of algebra. PREREQ: MATH 257 or MATH 147 or teaching certification in mathematics.

MATHED 524 THE TEACHING OF GEOMETRY (2-0-2)(SU). 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 257 or MATH 147 or teaching certification in mathematics.

MATHED 525 THE TEACHING OF CALCULUS (2-0-2)(SU). Contemporary approaches to teaching secondary school calculus; use of symbolic algebra and graphing software; treatment of selected topics in calculus including limit, derivative, and integral. PREREQ: MATH 175.

MATHED 557 ADVANCED PROBLEM SOLVING AND NUMBER THEORY FOR TEACHERS (3-0-3)(SU). Advanced study of number systems from whole numbers through the reals with an emphasis on problem solving and number theory. The course will make use of appropriate models to support the development of the content. This course is appropriate for teachers seeking to strengthen and extend their mathematical knowledge. PREREQ: MATH 257 or MATH 147 or teaching certification in mathematics.

MATHED 558 ADVANCED GEOMETRY AND PROBABILITY FOR TEACHERS (3-0-3)(SU). In-depth study of geometry and probability, including work with mathematical models. This course is appropriate for teachers seeking to strengthen and extend their mathematical knowledge. PREREQ: MATH 257 or MATH 147 or teaching certification in mathematics.

MATHED 564 MATHEMATICAL MODELING FOR TEACHERS (1-0-1)(SU). 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.

MATHED 570 ADVANCED MATHEMATICS THROUGH TECHNOLOGY (3-0-3)(SU). This course focuses on selecting and using appropriate technology in teaching P-12 mathematics and places an emphasis on instructional design and implementation of technology specific to the mathematical classroom. This course is appropriate for teachers seeking to strengthen and extend their mathematical knowledge. PREREQ: MATH 257 or MATH 147 or teaching certification in mathematics.

MATHED 591 PROJECT (May be taken for 3 to 6 credits). A project is a library research paper on some mathematics education topic new to the student. Weekly progress meetings are held with the instructor. PREREQ: Admission to candidacy.

MATHED 593 THESIS (May be taken for 3 to 6 credits). Original mathematics education research or a new interpretation or novel exposition of existing research results. Course is arranged with supervising faculty member. PREREQ: Admission to candidacy.

MATHED 598 SEMINAR IN MATHEMATICS EDUCATION (2-0-2)(SU). The content will vary within a format of student presentation and discussion of relatively advanced mathematics education topics selected from texts or journals. This will not be a seminar in mathematics.

Master of Science in Mechanical Engineering

Master of Engineering in Mechanical Engineering

Department of Mechanical Engineering
Engineering Technology Building, Room 240
Telephone 208 426-5702
FAX 208 426-5633
e-mail: roxford@boisestate.edu

Graduate Program Coordinator: Rudy Eggert
Graduate Program Information: Rex Oxford
Department Chair: John Gardner
Full Graduate Faculty: Paul Dawson, Rudy Eggert, James Ferguson, John Gardner, Joe Guarino, Donald Parks, Steven Tennyson
Associate Graduate Faculty: Michelle Sabick

General Information

The Department of Mechanical Engineering offers two distinct computer engineering graduate degree programs. The program leading to the Master of Science in Mechanical Engineering (M.S. ME) is a thesis-based program designed to prepare students for research and development and further study at the doctoral level The program leading to the Master of Engineering in Mechanical Engineering (M.Engr. ME) is a non-thesis program with a focus on professional development.

Admission Requirements and Application Procedures

Admission Requirements. An applicant must satisfy the minimum admission requirements of the Graduate College. In addition, the applicant must hold a baccalaureate degree in mechanical engineering from an ABET-accredited program or a baccalaureate degree in a closely related field, and must follow the application procedures specified below. Admission is competitive and the achievement of minimum requirements does not guarantee admission.

Application Procedures. A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Applying as a Degree-Seeking Student in this catalog). The applicant must also (1) submit a statement of purpose to the mechanical engineering graduate program coordinator, (2) have three letters of recommendation submitted directly by references to the graduate program coordinator, and (3) arrange to have GRE General Test scores submitted by the Educational Testing Service (www.ets.org) directly to Boise State University (code R4018). The statement of purpose should give the educational and professional background of the student and his or her motivation for graduate study including career goals. Applicants holding a baccalaureate degree from the College of Engineering of Boise State University are not required to submit GRE scores. Once the applicant's file is complete, it will be evaluated by the Mechanical Engineering Graduate Studies Committee and an admission recommendation (regular, provisional, or denial) will be forwarded to the Dean of the Graduate College. In order to ensure proper mentoring of all graduate students, a recommendation for regular or provisional admission will not be forwarded unless a faculty member of the Department of Mechanical Engineering is available to serve as the major advisor. The graduate dean will make the final admission decision and notify the applicant and the Mechanical Engineering Graduate Studies Committee.

Advisor and Supervisory Committee

For a student admitted to the M.S. ME program, the Mechanical Engineering Graduate Studies Committee will initiate the assignment of a supervisory committee including a major advisor who serves as chair. The role of the supervisory committee is to guide the student in all aspects of his or her graduate study. For a student admitted to the M.Engr. ME program, the Mechanical Engineering Graduate Studies Committee will appoint a major advisor; student mentoring will be provided by the major advisor and the chair of the department.

Degree Requirements

Master of Science in Mechanical Engineering. Students must complete at least 30 graduate credits distributed as shown in the degree requirements table. A written thesis proposal with oral presentation to the supervisory committee is required prior to the completion of 15 credits applicable to the degree requirements. Work on the thesis can only be undertaken after approval of the thesis proposal by the supervisory committee. The thesis must constitute an original contribution to knowledge in mechanical engineering and must be successfully defended at a final oral examination. All work directly related to the thesis must be represented by at least 6 credits of ME 593.

Master of Science in Mechanical Engineering

Course Number and Title	Credits
Graduate ME Courses Graduate courses in mechanical engineering; all courses to be selected with student input and approved by the supervisory committee.	15-24
Other Graduate Courses Graduate courses in mechanical engineering or a related field; all courses to be selected with student input and approved by the supervisory committee.	0-9
Thesis ME 593 Thesis (P/F)	6
TOTAL	**30**

Master of Engineering in Mechanical Engineering. Students must complete at least 31 graduate credits distributed as shown in the degree requirements table. A maximum of 3 credits of ME 696 Directed Research may be applied to meet the degree requirements. The comprehensive examination

cannot be attempted prior to the last semester of the program. If the comprehensive examination is failed on the first attempt, then the student will be permitted a second attempt. Failure on the second attempt will result in dismissal from the program.

Master of Engineering in Mechanical Engineering

Course Number and Title	Credits
Graduate ME Courses Graduate courses in mechanical engineering; all courses to be selected with student input and approved by the supervisory committee.	18-30
Other Graduate Courses Graduate courses in mechanical engineering or a related field; all courses to be selected with student input and approved by the supervisory committee.	0-12
Comprehensive Examination ME 600 Assessment (P/F)	1
TOTAL	**31**

Special Rule on Transfer Credit. The normal transfer credit policies of the Graduate College hold except that up to 15 transfer credits earned in combination at the University of Idaho and Idaho State University may be applied to either degree program (M.S. ME or M.Engr. ME) with the approval of the supervisory committee.

Course Offerings

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

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 578 DESIGN AND ANALYSIS OF MECHATRONIC SYSTEMS (3-0-3)(F/S). Design and analysis of engineering systems containing mechanical, electro-mechanical and embedded computer elements. The course provides an overview of basic electronics, digital logic, signal processing and electromechanical devices. Fundamentals of event-driven programming will also be covered. PREREQ: ENGR 240.

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 Music

Department of Music
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Graduate Program Coordinator: Jeanne Belfy
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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, Giselle Wyers
Associate Graduate Faculty: J. Wallis Bratt, Michael Fischer, James Jirak, Linda Kline-Lamar, Ritchard Maynard, David Saunders,
Adjunct Graduate Faculty: Francesca Arnone, John Bostron, Samuel Smith, Peggy Jo Wilhelm

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 250 music majors, and offers a full range of vocal and instrumental expertise, with the assistance of many professional adjunct instructors.

Master of Music

The Department offers four 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. Students seeking Music Education Emphasis must possess the B.M.Ed. or equivalent with certification, and submit a teaching portfolio to include a formal writing sample, lesson plan samples including assessment tools, program sample, teaching video, and three letters of reference from professionals who are familiar with the applicant's teaching. 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: 33-36 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 No more than four (4) workshop elective credits, of which one may be a music conference credit, may be applied towards the degree. B. 3 credits additional approved electives in music	6 3
4. Comprehensive Examination: A written comprehensive examination in music must be completed prior to completion of 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 6 credits of 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 **or** 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).....8	17-18

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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 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 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 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 501 UNIVERSITY SINGERS (0-2-1)(F/S). Open to all, a campus and community choir that focuses on improving vocal

technique and musicianship skills. No audition. Major choral works from all periods, public performances.

MUS-ENS 503 CHAMBER SINGERS (0-2-1)(F/S). Ten select singers specializing in vocal chamber music, emphasizing Medieval, Renaissance, and Baroque music. Active performance schedule both on campus and in the community. Membership by audition. PREREQ: Audition and/or PERM/INST.

MUS-ENS 505 MEISTERSINGERS (0-2-1)(F/S). Advanced 42-voice concert-touring chorus, highest standards, very active performing schedule. Membership by audition. PREREQ: Audition and/or PERM/INST.

MUS-ENS 511 VOCAL JAZZ CHOIR (0-2-1)(F/S). Designed to promote participation in and repertoire knowledge of literature for vocal jazz choirs. Public performances. PREREQ: Audition and/or PERM/INST.

MUS-ENS 512 WOMEN'S CHORALE (0-2-1)(F/S). Specializing in choral literature for treble voices from all time periods, teaching vocal technique, musicianship, and sight-reading. Public performances. Membership by minimal audition. Public performances. PREREQ: Audition and/or PERM/INST.

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 SYMPHONIC WINDS (0-V-1)(F/S). Rehearsal attendance and performance with the select concert band of the University. PREREQ: Audition and/or PERM/INST.

MUS-ENS 526 JAZZ ENSEMBLE (0-3-2)(F,S). Rehearsal attendance and performance with the University big band jazz ensemble. PREREQ: Audition and/or PERM/INST.

MUS-ENS 570 TROMBONE CHOIR (0-2-1)(F,S). Study and performance of the literature, including original and transcribed works for multiple tenor and bass trombones. Public performances each semester. PREREQ: PERM/INST.

MUS-ENS 540 PERCUSSION ENSEMBLE (0-2-1)(F,S). Rehearsal attendance and performance with the University percussion ensemble. PREREQ: PERM/INST.

MUS-ENS 560 CHAMBER ENSEMBLE (0-V-1)(F,S). Participation in a faculty coached, official departmental chamber ensemble, resulting in a minimum of one public performance per semester. PREREQ: PERM/INST.

MUS-ENS 585 DUO PIANO ENSEMBLE (0-2-1)(F,S). Survey of duo-piano literature, rehearsal and performance problems, resulting in public performance each semester. PREREQ: PERM/INST.

MUS-ENS 522 TREASURE VALLEY CONCERT BAND (0-3-1) (F,S). Rehearsal attendance and multiple performances with this full symphonic band comprising professionals and advanced adult musicians. PREREQ: PERM/INST.

MUS-ENS 550 ORCHESTRA (0-5-1)(F,S). Rehearsal attendance and performance with the University Orchestra. Graduate students are expected to assume leadership roles or will be assigned extra duties within the orchestra and/or its organization. Audition required for new students. PREREQ: PERM/INST.

MUS — MUSIC, GENERAL

MUS 355G ROCK MUSIC: ITS PERFORMANCE AND HISTORY (3-0-3)(F/S)(Odd-numbered years). Survey of history and theory of rock music from primitive beginnings in nineteenth century to the present with primary focus on music from 1950 through 1970. Includes a final performance component. Graduate students will be expected to engage in current research on the subject matter. PREREQ: MUS 220 and PERM/INST. History elective.

MUS 423G SIXTEENTH-CENTURY COUNTERPOINT (3-0-3)(F) (Odd-numbered years). Study of 16th-century compositional techniques. Compositions will be written in 2 to 4 voices, 5 species, C clefs and Latin texts. Analysis/listening of music of the period. Additional compositions and/or research for graduate credit. PREREQ: MUS 220 or equivalent. Theory elective.

MUS 424G COUNTERPOINT SINCE 1600 (3-0-3)(F)(Even-numbered years). 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. Theory elective.

MUS 454G SECONDARY GENERAL MUSIC METHODS (2-0-2) (S)(Offered alternate, odd-numbered years). Methods and materials emphasizing the development of discriminating listening skills, expressive singing, reading and notating music, creating music, and understanding music's role in contemporary society.

MUS 465G DICTION FOR SINGERS I (2-0-2)(F)(Even-numbered years). 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. PREREQ: 1 year of MUS-PRV voice performance studies.

MUS 466G DICTION FOR SINGERS II (2-0-2)(S)(Even-numbered years). 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. PREREQ: MUS 465G or PERM/INST.

MUS 472G ADVANCED METHODS FOR ELEMENTARY MUSIC TEACHING (3-0-3)(F)(Offered alternate even-numbered years). Primarily for music majors. Emphasis on methods and materials for individualized instruction, special education, related arts, and listening lessons, as well as a study of the major contributions made to music education from the fields of educational philosophy and psychology. PREREQ: MUS 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. History elective.

MUS 502 SURVEY OF JAZZ (3-0-3)(S). Explores interpretation of America's original musical art form through listening and through discussion of socio-cultural contexts of jazz. Survey covers stylistic influences of nineteenth-century Africa and western Europe through current living exponents of jazz. In-depth book reviews and research

papers on the subject are required. PREREQ: MUS 100 or MUS 101. History elective.

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 504 SURVEY OF ETHNOMUSICOLOGY AND WORLD MUSIC (3-0-3)(S)(Even-numbered years). This course considers the role of music in society and culture, and examines several musical traditions beyond the scope of Western art music. PREREQ: Admission to Master of Music program or PERM/INST. History elective.

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 510 ADVANCED FORM AND ANALYSIS (3-0-3)(S). Analysis of harmonic and formal structures of the larger binary and ternary forms; the sonata, the symphony, the concerto, Baroque forms. Theory elective.

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. Theory elective.

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. Theory elective.

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. History elective.

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. History elective.

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. Repeatable for credit for different instruments.

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. Repeatable for credit for different instruments.

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. Repeatable for credit for different instruments.

MUS 567 CHORAL LITERATURE (2-0-2)(F). Survey course exploring choral works from all time periods. Though secular works will be discussed, special emphasis will be placed on tracing the development of the Mass, Motet and Requiem throughout history. Strategies for teaching and performing these works will be discussed. Special projects include programming for elementary, secondary and collegiate choirs.

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
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http://ppa.boisestate.edu
e-mail: mpa@boisestate.edu

Department Chair: James B. Weatherby
Director of Graduate Studies: Les Alm
Full Graduate Faculty: Les Alm, Patricia Fredericksen, John Freemuth, Richard Kinney, Janet Mills, Gary Moncrief, James Weatherby, Stephanie Witt
Adjunct Graduate Faculty: Daniel Chadwick, Kenneth McClure, Charles Moss, Stephen Wilson, 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, Boise State has been given the mandate to provide educational opportunities related to public affairs. 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 Public Policy Center** 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 annual Mountain West Municipal Clerks and Treasurers Institute.

The Center also produces handbooks that are widely used by officials throughout the state: the *Idaho Legislative Manual* for legislators, and the *Handbook for Elected County Officials*.

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 nine 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 environmental 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 Graduate Admission and Degree Services. If approved, the applicant receives a certificate of admission to enroll in courses at Boise State. 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. The GRE requirement can be waived for students who have earned a master's degree from an accredited program.
4. Submit official transcripts from all previous academic institutions to Graduate Admission and Degree Services.
5. Submit three letters of reference, in which the applicant's academic potential is evaluated, to the MPA Admissions Committee, 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. 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. Application files are due March 1 for Fall admission and October 1 for Spring admission.

8. Students may not take more than 9 credits (3 of which can be a core class) prior to official acceptance into the MPA program.
9. During the semester following acceptance into the MPA program, students should 1) meet with their advisor; 2) complete their Program Development Form; and 3) enroll in PUBADM 500.

Degree Requirements

Master of Public Administration

Course Number and Title	Credits
MPA students must successfully complete at least 39 semester credit hours of approved MPA course work. Twenty-one semester credit hours are core courses. The eighteen additional semester credit hours are in the student's area of emphasis and/or in the electives requirement. 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 PUBADM 600 Assessment.....3	21
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. Selected Topics courses will be offered to supplement area of emphasis requirements. 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	
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 Directed Research (PUBADM 696) which relates to their area of emphasis.	6
TOTAL	**39**
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.	
Public Service Internship: Those MPA students without at least one year of 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 39 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.	6

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Master of Public Administration (continued)

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.

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 emphasizes three major themes: American government, statistical methods, and the philosophy of public administration.

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. PREREQ: PUBADM 500.

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 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.

PUBADM 600 ASSESSMENT (3-0-3)(F/S). This course serves as the final comprehensive assessment of student knowledge of the major ideas that define public administration and must be taken during the final semester of a student's graduate program. PREREQ: PERM/CHAIR.

PUBADM 696 DIRECTED RESEARCH (3-6 credits). Students work with a single professor in completing a project that includes original research.

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: jbeltho@boisestate.edu

Graduate Program Coordinator: James Belthoff
Department Chair: James Munger
Full Graduate Faculty: Marc Bechard, James Belthoff, Alfred Dufty, Cheryl Jorcyk, Peter Koetsier, James Long, Richard McCloskey, James Munger, Stephen Novak, Julia Thom Oxford, Ian Robertson, Troy Rohn, Robert Rychert, Marcelo Serpe, James Smith, Marcia Wicklow-Howard

Associate Graduate Faculty: Denise Wingett

Adjunct Graduate Faculty: Jonathan Bart, Kenneth Brewer, William Burnham, Susan Earnst, David Eldridge, Mark Fuller, Nicholas Hadjokas, Stuart Hardegree, Charles Harris, Cynthia Keller-Peck, Lloyd Kiff, Steven Knick, Michael Kochert, Daniel Leavell, Yongsheng Ma, Carl Marti, Jr., Bill Mattox, Rosemary Mazaika, Richard Olson, Rebecca Pullen, Bruce Rieman, Gary Roloff, Roger Rosentreter, Randall Ryan, Victoria Saab, Rex Sallabanks, Nancy Shaw, Michael Spence, Karen Steenhof, Dennis Stevens, Robert Van Kirk, Richard Watson, David Whitacre, Rick Williams, Eric Yensen

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 Admission and Degree Services, Boise State University, 1910 University Drive, Boise, ID 83725-1110.
   - A graduate application along with the 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 Graduate Admission and Degree Services.
   - Have Graduate Record Exam scores forwarded to Graduate Admission and Degree Services.
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 3.0 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 may be 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 Boise State University catalog.

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 a 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 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)(Offered odd-numbered years). Medically important bacteria, rickettsia, and chlamydia are surveyed with emphasis on their pathogenicity, host-parasite relationships, and the clinical and diagnostic aspects of the diseases they produce in humans and animals. PREREQ: BIOL 205 or BIOL 303 or PERM/INST.

BIOL 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)(Offered even-numbered years). 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. 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. Graded Pass/Fail. 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 509 MOLECULAR ECOLOGY AND PHYLOGEOGRAPHY (3-0-3)(F)(Offered odd-numbered years). Theory and methodologies used in molecular ecology and phylogeography. Molecular genetic markers currently used to study ecological phenomena (e.g., mating systems, parentage and kinship, population structure, gene flow, dispersal, natural selection). Emphasis on an hypothesis-testing approach. Determination of which molecular techniques are most appropriate for specific research questions. PREREQ: BIOL 323 and BIOL 343.

BIOL 517 SPECIES AND SPECIATION (3-0-3)(F)(Offered odd-numbered years). 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. PREREQ: BIOL 401-401G (or equivalent) or PERM/INST.

BIOL 522 CONSERVATION BIOLOGY (3-0-3)(S)(Offered odd-numbered years). An introduction to the field of conservation biology, the applied science concerned with understanding the effects of human activities on natural biological systems and with developing practical approaches to prevent the loss of biodiversity. Topics covered will include conservation genetics, demographic analysis, habitat degradation, overexploitation, and restoration ecology. Discussion of the social, political, and economic aspects of conservation biology. 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)(Offered odd-numbered years). The biology and ecology of flowing waters is emphasized; their biota, management, and ecology at both the community and ecosystem level will be discussed. PREREQ: BIOL 323 or 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)(Offered odd-numbered years). 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. PREREQ: PERM/INST.

BIOL 531 PHARMACOLOGY (3-0-3)(F). Basic pharmacological principles including mechanisms of drug action in relation both to drug-receptor interactions and to the operation of physiological and biochemical systems. Pharmacokinetics, metabolism, receptor theory and an examination of major classes of therapeutic agents used in humans. PREREQ: BIOL 227-228 or BIOL 191-192 and BIOL 301.

BIOL 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 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 543 ADVANCED DEVELOPMENTAL BIOLOGY (1-6-2)(F)(Offered odd-numbered years). Application of molecular and cellular methods to current topics in developmental biology. Analysis of current literature in biology with emphasis on the coordinated regulation of gene expression, cellular differentiation and migration. Laboratory studies include model systems such as chick, zebrafish, sea urchin and mouse, utilizing cell/tissue culture, histology, immunohistochemistry, RT-PCR, protein purification, SDS-PAGE, western blot and others. Previous enrollment in BIOL 344 and ZOOL 351 recommended.

BIOL 546 BIOINFORMATICS (2-3-3)(F). Practical training in bioinformatics methods. accessing sequence data bases, BLAST tools,

analysis of nucleic acid and protein sequences, detection of motifs and domains of proteins, phylogenetic analysis, gene arrays, and gene mapping. PREREQ: BIOL 343 or PERM/INST.

BIOL 551 DEVELOPMENTAL BIOLOGY (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 with emphasis on molecular and cellular mechanisms. Laboratory studies of sea urchin, frog, chick, and pig development. PREREQ: BIOL 191-192 or PERM/INST.

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)(Offered odd-numbered years). A study of the structure and development of vascular plant tissues, regions, and organs. Emphasis will be placed on the Angiosperms. Laboratory work includes preparation of hand and paraffin sections, staining, and observation of plant tissues using various types of light microscopy. PREREQ: BIOL 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)(Offered odd-numbered years). A study of plant biophysical and biochemical processes. Includes coverage of cell, tissue, and organ function, photosynthesis, water relations, mineral nutrition, transport mechanisms, growth and development, secondary metabolites, and plant responses to the environment. PREREQ: BIOL 203 and CHEM 317 or PERM/INST.

BOT 524 PLANT COMMUNITY ECOLOGY (3-3-4)(F)(Offered even-numbered years). A study of the properties, structure, method of analysis, classification, and dynamic nature of plant communities. Topics for discussion will include the strengths and weaknesses of various sampling techniques, the role of disturbance events and succession on community structure, and the role of biological 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. PREREQ: BIOL 323 or BIOL 323G or PERM/INST.

BOT 541 PLANT DEVELOPMENTAL BIOLOGY (3-3-4)(S)(Offered even-numbered years). A description of plant development from a molecular and cellular perspective. Topics discussed include gene expression and cell 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. 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. Field trips to collect and identify local species. PREREQ: BIOL 191-192 or PERM/INST.

ZOOL 341G ORNITHOLOGY (2-3-3)(S)(Offered odd-numbered years). Birds as examples of biological principles: classification, identification, ecology, behavior, life histories, distribution, and adaptations of birds. Two weekend field trips. PREREQ: BIOL 191-192 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 403G HEAD AND NECK ANATOMY (1-3-2)(F). Use of human cadavers to study prosections of head and neck with emphasis on clinical relevance. Integument, osteology, myology, circulatory systems, lymphatics, oral and dental tissues, neuroanatomy, cranial nerves, general innervation, and salivary glands. PREREQ: BIOL 191-192 or BIOL 227-228 or PERM/INST.

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

ZOOL 501 HUMAN PHYSIOLOGY (3-3-4)(S). Functional aspects of human tissues and organ systems with emphasis on regulatory and homeostatic mechanisms. PREREQ: BIOL 301 or PERM/INST.

ZOOL 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)(Offered odd-numbered years). 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. 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. PREREQ: BIOL 323 or BIOL 323G or PERM/INST.

ZOOL 535 BEHAVIORAL ENDOCRINOLOGY (3-0-3)(F) (Offered even-numbered years). 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. PREREQ: Graduate standing 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 643
Telephone 208 426-1219 or 426-1821
e-mail: jjensen2@boisestate.edu

Department Chair: Kenneth Coll
School Counseling Program Coordinator: Bobbie Birdsall
Addiction Studies Coordinator: Ken Coll
Full Graduate Faculty: Bobbie Birdsall, Kenneth Coll, Sara LaRiviere, Margaret Miller, Jim Nicholson
Associate Graduate Faculty: Terrie House
Adjunct Graduate Faculty: Mary L. Ensley, Brenda Freeman, Susan Reuling Furness, Tim Furness, Phyllis Nodler, Anne Marie Nelson (Emerita)

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), and is an institution partner in The Education Trust "Initiative for Transforming School Counseling." 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, primarily during evenings and weekends of fall and spring semesters, with students enrolling in six to nine credits each semester and enrolling in six to seven 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 required of all students, and an Adjudication statement is required of each student upon acceptance and at several check points in the program.

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: Professional Identity, Social and Cultural Diversity, Human Growth and Development, Career Development, Helping Relationships, Group Work, Assessment, and Research and Program Evaluation. 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. Course sequence and content also prepare school counselors to meet the standards of Idaho MOST (Maximizing Outcomes of Students and Teachers).

Master of Arts in School Counseling

Course Number and Title	Credits
Professional Identity COUN 501 Foundations in Counseling.....3 COUN 568 Seminar .....1 COUN 519 Elementary School Counseling.....2 or COUN 520 Secondary School Counseling.....2 or COUN 529 Middle School Counseling 2	6
Social and Cultural Diversity COUN 508 Special Needs, Ethics and Legal Issues in Counseling .....3 COUN 509 Culturally Aware Counseling.....3 COUN 566 Seminar 1	7
Human Growth and Development COUN 511 Family Systems.....3 COUN 506 Lifespan Development.....2 COUN 530 Managing Developmental School Programs 2	7

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Master of Arts in School Counseling (continued)

Career Development COUN 507 Career Development and Vocational Counseling.....3	3
Helping Relationships COUN 502 Counseling Theories and Applications I.....3 COUN 505 Counseling Theories and Applications II 3	6
Group Work COUN 513 Group Counseling.....3	3
Assessment COUN 504 Measurement and Evaluation in School Counseling.....3 COUN 547 Chemical Addiction and Violence Prevention.....3	6
Research and Program Evaluation COUN 512 Statistics and Research Design.....3	3
Practica COUN 514 Counseling Practicum I .....2 COUN 516 Counseling Practicum II.....2	4
Internships COUN 526 Internship in Counseling I .....3 COUN 528 Internship in Counseling II 3	6
Electives	9
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 video taping, and supervised experience in the community, school, and student outreach sites. 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. 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. During one semester of the Program each student counselor is expected to participate in a group counseling experience with a licensed counselor not involved in Program instruction.

Addiction Studies Requirements

The 60-credit Master of Arts in School Counseling offers the core of counseling knowledge and skills that allows graduates to enter nearly any branch of the counseling profession. An additional elective track in Addictions Studies provides courses

leading to certification as an addictions counselor. Certifications identify to the public those counselors who have met professional addictions standards and promote the master level addictions counselors' professional identity, visibility, and accountability. This emphasis is designed to meet all curricular experiences required to become a nationally credentialed Master Addictions Counselor (MAC) and an Idaho Certified Alcohol and Drug Counselor (CADC).

Master of Arts in School Counseling, Addiction Studies

Course Number and Title	Credits
CORE REQUIREMENTS COUN 519..... COUN 520..... COUN 529 ..... COUN 547.....	51
EMPHASIS REQUIREMENTS COUN 545 Foundations of Chemical Dependency .....3 COUN 543 Assessing and Managing Adolescent Substance Abuse and Mental Health Risks.....3 COUN 550 Diagnoses, Assessment, and Treatment Planning 2	8
ADDITIONAL CREDENTIAL REQUIREMENTS For MAC add: COUN 544 Assessment of Alcohol and Drug Problems, Part I .....3 For CADC add: COUN 546 Assessment of Alcohol and Drug Problems, Part II 3	3-6
TOTAL	**62-65**

Graduate Certificate in Addiction Studies

General Information

The Graduate Certificate in Addiction Studies is an **interdisciplinary program** offered by the Department of Counselor Education (College of Education), and the Master of Health Science Program (College of Health Sciences). The **postgraduate certificate** is designed for professionals employed in substance abuse education, prevention or intervention settings. The goal of the certificate program is to prepare students for a variety of positions in the addiction field. The graduate certificate meets the didactic experiences required to become a nationally credentialed Master Addictions Counselor (MAC if holding a Master's in Counseling), and an Idaho Certified Alcohol and Drug Counselor (CADC) or Advanced Certificate Alcohol and Drug Counselor (ACADC, if holding a related graduate degree).

Admission and Application Requirements

Admission Requirements: Applicants are required to have a baccalaureate degree from an accredited institution, to have completed COUN 545/MHLTHSCI 545 Foundations in Chemical Dependency or its equivalent, and must have achieved a cumulative undergraduate GPA of at least 3.00 on a 4.00 scale. However, these minimum requirements do not guarantee admission to the program. **Admission recommendations will be based upon a review of the student's transcripts and resume, letters of reference, Statement of Purpose, and interview.**

Application Procedures: An applicant should follow the general application procedures for graduate degree-seeking students (see Applying as a Degree-Seeking Student in the Graduate Admission Policies and Procedures section of this catalog). In addition, an applicant must

1. submit a Statement of Purpose and resume to the **Graduate Certificate Program, Attention: Jamie Jensen, Boise State University, Department of Counselor Education (E-643), 1910 University Drive, Boise, ID 83725-1721**, and
2. submit three letters of reference, in which the applicant's academic potential is evaluated, to the appropriate Graduate Certificate Program Advisor. (For applicants who applied for a graduate program within 3 years, those references can be used.) The Statement of Purpose should explain the student's motivation for pursuing a Graduate Certificate in Addiction Studies and describe his/her career interests.

Once the applicant's file is complete, the Addiction Studies Graduate Certificate Committee will evaluate, interview, and an admission recommendation (regular, provisional, or denial) will be forwarded to the Program Directors (Chairs) of the Counselor Education and Health Sciences Departments. In the case of a recommendation for provisional admission, the Committee will also establish the stipulations that must be satisfied by the student to advance to regular status. Admission to the Certificate in Addiction Studies does not guarantee subsequent admission to any other certificate or graduate degree programs.

APPLICATION DEADLINES:
August 15 for Fall Semester, 2004.
(Send completed application to Jamie Jensen, Boise State University, Department of Counselor Education (E-643), 1910 University Drive, Boise, ID 83725-1721.

Contacts: Dr. Ken Coll, Department of Counselor Education, (208) 426-1821, kcoll@boisestate.edu

Dr. Sara Toevs, Master of Health Science Program, (208) 426-2452, stoevs@boisestate.edu

Requirements

A minimum of 18 credits is required for completion of the Graduate Certificate in Addiction Studies.

Prerequisite for the certificate program is COUN 545/ MHLTHSCI 545 Foundations in Chemical Dependency (Offered every Fall semester, evening class once per week).

Graduate Certificate in Addiction Studies	
Course Number and Title	**Credits**
COUN 541/MHLTHSCI 544 Alcohol/Drug Abuse and the Family (Offered every Fall and Spring semester. Evening class once per week.)	3
COUN 547/MHLTHSCI 547 Chemical Addictions and Violence Prevention (Offered every other Spring semester, even years. Evening class once per week.)	3
COUN 543/MHLTHSCI 543 Assessing and Managing Adolescent Substance Abuse and Mental Health Risks (Offered every other Spring semester, odd years. Evening class once per week.)	3
COUN 544/MHLTHSCI 564 Assessment of Alcohol and Drug Problems, Part I (Offered every Fall semester on internet. Afternoon class once per week.)	3
COUN 546/MHLTHSCI 565 Assessment of Alcohol and Drug Problems, Part II (Offered every Spring semester. Afternoon class, once per week.)	3
COUN 550/MHLTHSCI 567 DSM IV: Diagnoses, Assessment, and Treatment Planning (Offered every other Fall semester, odd years. Weekend class, three weekends.)	2
COUN 567/MHLTHSCI 568 Clinical Supervision Principles and Practice (Offered every other Fall semester, even years. Weekend class, one weekend.)	1
Course prerequisites or permission of the instructor must also be met. Students who wish to enroll in courses other than those specified may do so by permission of the Addiction Studies Graduate Certificate Committee. Students must maintain a minimum 3.0 GPA in all certification course work.	

Course Offerings

COUN — COUNSELING

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 AND APPLICATIONS I (2-2-3)(F). Examine historical and contemporary theories of counseling, overview of counseling processes in a pluralistic society, and acquire counseling skills through videotaped and role-played practice related to major approaches. Specified structure and activities within this course meet the CACREP accreditation requirement of 10 hours of Group Counseling Experience. 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 THEORIES AND APPLICATIONS II (2-2-3)(S). Examine historical and contemporary theories of counseling including an overview of counseling process and practice. Acquire effective and ethical counseling skills through videotaped and role-played practice related to major approaches. As a culminating activity each student will develop and articulate an individualized perspective toward counseling in a pluralistic society. PREREQ: COUN 501 and COUN 502.

COUN 506 LIFESPAN DEVELOPMENT (2-0-2)(F/SU). Examine theoretical constructs related to developmental processes, both typical and atypical, and analyze developmentally based behavior patterns across the age spectrum (birth to death) through a variety of contemporary cultures and beliefs.

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 SPECIAL NEEDS, ETHICS, AND LEGAL ISSUES IN COUNSELING (3-0-3)(F/SU). Information on laws, regulations, techniques and interventions needed by professional counselors when working with individuals with disabilities or other challenges. Examination of ethical, legal, and professional issues involved in counseling in all settings and populations. Analysis of questionable situations and practitioner decision-making based on the ethical standards of the American Counseling Association and laws governing professional counselors. PREREQ: COUN 505 or PERM/INST.

COUN 509 CULTURALLY AWARE COUNSELING (3-0-3)(S/SU). Examine 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 differing lifestyles with special attention to the influence of cultural and social change on family relationships, gender equity, and individual adjustment. Examine one's own attitudes, behaviors, perceptions, and biases to develop a culturally aware approach to teaching, counseling, and/or administration. PREREQ: COUN 502 or PERM/INST.

COUN 511 FAMILY SYSTEMS (2-2-3)(F/SU). Examine theoretical constructs related to the family structure, climate, and interactions and develop skills for working with families from diverse backgrounds, including families with special needs children. Opportunities are presented for student participation in parenting skills classes and family systems work. PREREQ: COUN 505 and COUN 509.

COUN 512 STATISTICS AND RESEARCH DESIGN (2-2-3)(SU). 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 (2-1-2)(F). Review theory and culturally competent skills integration prior to participating in closely supervised counseling experiences through modeling, peer counseling, ethical review, and audio and/or video taping. PREREQ: COUN 506 with a grade of at least "B".

COUN 516 COUNSELING PRACTICUM II (1-2-2)(S). Participation in closely supervised counseling experiences (audio and/or video-taping required) with emphasis in student's area of specialization or interests focusing on ethical decision-making and culturally competent strategies. PREREQ: COUN 514 with a grade of at least "B".

COUN 519 ELEMENTARY SCHOOL COUNSELING (2-0-2)(F) (Odd years). Explore evolving roles and responsibilities of elementary school counselors including curriculum development, parent and teacher consultation, developmentally appropriate interventions, emergency procedures, ethical and legal considerations, documentation, referral, and counseling skills with children from diverse backgrounds. Analyze the organization and implementation of the "Idaho Comprehensive School Counseling Program Model" while observing in an elementary school setting. PREREQ: COUN 505 and COUN 530 or Masters in Counseling.

COUN 520 SECONDARY SCHOOL COUNSELING (2-0-2)(S) (Even years). Explore the evolving roles and responsibilities of high school counselors including curriculum development, parent and teacher consultation, developmentally appropriate interventions for diverse populations, emergency procedures, ethical and legal considerations, documentation, referral, job/school partnerships, and lifespan planning. Analyze the organization and implementation of the "Idaho Comprehensive School Counseling Program Model" while observing in a secondary school setting. PREREQ: COUN 505 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 523 REFERRAL AND NETWORKING (1-0-1)(F/S/SU). Investigate the crisis/short-term intervention approach to counseling. Analyze the resources within the school, agency, and community that support this approach and practice effective referral strategies. Develop a professional support network. PREREQ: PERM/INST.

COUN 525 CONSULTATION (1-2-2)(F/S/SU). 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 505 and 509 or PERM/INST.

COUN 526 COUNSELING INTERNSHIP I (1-4-3)(F/S). 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: COUN 516 with grade of at least "B". COREQ: COUN 566.

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 COUNSELING INTERNSHIP II (1-4-3)(F/S). In this culminating component of internship, student assumes all functions of a counselor in his/her site while under site-based (primary) and university supervision, providing the range of counseling sources from crisis intervention to promotion of personal development and environmental enhancement. Pass/fail credit. PREREQ: Recommendation of COUN 526 Supervisors. COREQ: COUN 568.

COUN 529 MIDDLE SCHOOL COUNSELING (2-0-2)(F)(Even years). Explore evolving roles and responsibilities of middle school/junior high school counselors including curriculum development, parent and teacher consultation, developmentally appropriate interventions for diverse populations, emergency procedures, ethical and legal considerations, documentation, and referral. The unique needs, stresses, and developmental concerns of this age group are included with emphasis on the organization and implementation of the "Idaho Comprehensive School Counseling Program Model" while observing in a middle/junior high school setting. PREREQ: COUN 505 and COUN 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 541 ALCOHOL/DRUG ABUSE AND THE FAMILY (MHLTHSCI 544)(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. This course may be taken for MHLTHSCI or COUN credit, but not both.

COUN 543 ASSESSING AND MANAGING ADOLESCENT SUBSTANCE ABUSE AND MENTAL HEALTH RISKS (MHLTHSCI 543)(3-0-3)(S)(Odd years). Introduction to comprehensive adolescent risk assessment and treatment planning. Examination of current and available comprehensive adolescent assessments, current and available specialized assessments, report writing approaches and effective treatment processes. PREREQ: PERM/INST.

COUN 544 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART I (MHLTHSCI 564)(3-0-3)(F). Emphasis on screening and assessment tool-procedures for substance abuse. Application of current interventions and screening processes. Legal, social, ethical, and health implications will be investigated. This course may be taken for MHLTHSCI or COUN credit, but not both.

COUN 545 FOUNDATIONS OF CHEMICAL DEPENDENCY (MHLTHSCI 545)(3-0-3)(F,S). 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 be taken for MHLTHSCI or COUN credit, but not both. PREREQ: PERM/INST.

COUN 546 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART II (MHLTHSCI 565)(3-0-3)(S). 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 be taken for MHLTHSCI or COUN credit, but not both. PREREQ: MHLTHSCI 564 or COUN 544 or PERM/INST.

COUN 547 CHEMICAL ADDICTIONS AND VIOLENCE PREVENTION (3-0-3)(S)(Even years). Introduction to professional, ethical, legal, and practical aspects of chemical addictions and violence prevention (primary and secondary) in the schools and other settings (e.g., adolescent treatment). Examination of current research and available curriculum models, current identification and intervention approaches, and effective prevention programming. Historical and social contexts (e.g., Safe and Drug Free Schools and Communities Initiative) also included. PREREQ: Graduate or Senior standing.

COUN 549 COUNSELING TECHNIQUES FOR CHEMICAL DEPENDENCY (ED-CIFS 549)(MHLTHSCI 549)(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 only be taken once. PREREQ: PERM/INST.

COUN 550 DIAGNOSES, ASSESSMENT, AND TREATMENT PLANNING (2-0-2)(F)(Odd years). Examination of concepts of "mental disorders," DSM classification systems, and the diagnostic benefits & diagnostic problems inherent in such systems. An introduction and overview of the major psychopathological syndromes of adolescents and adults (especially in the area of Co-morbidity of Substance Abuse/Dependence and other DSM IV diagnoses) to facilitate appropriate use of assessment-diagnostic-treatment links (including treatment planning). PREREQ: PERM/INST.

COUN 566 SEMINAR: COUNSELING WITH SPECIAL POPULATIONS (0-1-1)(F/S). Discussion of and research into the role of ethical and culturally competent counseling with special populations in schools and agency settings, including Individual Developmental Education Act (IDEA), American Disabilities Act (ADA), and Section 504 Regulations. COREQ: COUN 526.

COUN 567 CLINICAL SUPERVISION PRINCIPLES AND PRACTICE (MHLTHSCI 567)(1-0-1)(F)(Even years). Theory and skill development for practitioners who are or will be supervising interns and/or professionals in school, agency, and other settings. Topics include ethical issues in clinical supervision, models and best practices, documentation, and troubleshooting problematic dynamics. PREREQ: PERM/INST.

COUN 568 SEMINAR: PROFESSIONAL COUNSELING (0-1-1) (F/S). Discussions and research into the evolving culturally competent role of professional counselors in all settings, emphasizing ethical decision-making and licensure and certification considerations. COREQ: COUN 528.

Master of Social Work

School of Social Work
Education Building, Room 716
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e-mail: wwhitak@boisestate.edu

Interim School of Social Work Director: Shelton Woods
Graduate Program Coordinator: William Whitaker
Full Graduate Faculty: Gretchen Cotrell, Daniel Harkness, Juanita Hepler, Daniel Huff, William Whitaker
Associate Graduate Faculty: Robin Allen, Denice Goodrich Liley
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 (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 Boise State University 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 or for life experience.

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 credits in 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 Foundation Research 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 Individuals and Families: Policy and Legislation	3
SOCWRK 532 Research II: Evaluation	3
SOCWRK 550 Advanced Interventions-Comparative Theories	3

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Master of Social Work (continued)

SOCWRK 575 Advanced Practicum	6
Total Credits	15
Spring Semester	
SOCWRK 525 Advanced Clinical Practice with Individuals and Families	3
SOCWRK 526 Mental 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	Political Social Work
International 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 that 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.	

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Master of Social Work Advanced Standing (continued)	
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 INDIVIDUALS AND FAMILIES: 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 INDIVIDUALS AND FAMILIES (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 MENTAL DISORDERS (3-0-3)(F/S). This course prepares students to conduct systematic biopsychosocial assessments, formulate differential diagnoses in accordance with the Diagnostic and Statistical Manual of Mental Disorders, and recommend treatment plans informed by the state-of-the-art. Championing the development of robust helping relationships that empower consumers by building on strengths, students are taught to monitor their practice for bias related to affectional orientation, disability, ethnicity, gender and race.

SOCWRK 530 FOUNDATION RESEARCH I (3-0-3)(F,SU). This course will distinguish science from other forms of knowledge and

introduce students to ethical standards of scientific inquiry with human subjects. Addresses the scientific literature; research questions and hypotheses; measurement and error; qualitative and quantitative research methodologies; descriptive and inferential statistics; and the interpretation of findings. PREREQ: Undergraduate course with content on descriptive and inferential 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: Bruce Ballenger
Full Graduate Faculty: Bruce Ballenger, John Battalio, Jon Dayley, Mike Markel, Roger Munger, 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 another discipline; however, you may apply to the degree no more than 3 credits in subjects other than technical communication. (Note: You may not count ENGL 405G or ENGL 415G toward your degree requirements.)

Master of Arts in Technical Communication Alternative Program 1

An introductory seminar (Introductory Seminar in Technical Communication), 21 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	3
ENGL 517 Oral Communication for Technical Communicators	3
ENGL 521Topics in On-screen Document Production	3
ENGL 590 Internship	3
ENGL 591 Project or ENGL 593 Thesis	3
Electives (no more than 3 credits from outside technical communication)	3
TOTAL	**33**

Master of Arts in Technical Communication Alternative Program 2

An introductory seminar (Introductory Seminar in Technical Communication), 21 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
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	3
ENGL 517 Oral Communication for Technical Communicators	3
ENGL 521 Topics in On-screen Document Production	3
ENGL 590 Internship	3
Electives (no more than 3 credits from outside technical communication)	6
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. (Note that you will still be permitted to apply to your degree no more than 3 credits from outside technical communication.)

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 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 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 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 the fields of cognitive science, software psychology, and human factors. This course may be taken twice for credit. 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 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 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.

Graduate Certificate in Technical Communication

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Director of Technical Communication: Mike Markel
Department Chair: Bruce Ballenger
Full Graduate Faculty: Bruce Ballenger, John Battalio, Jon Dayley, Mike Markel, Roger Munger, Michelle Payne, Bruce Robbins, Mary Ellen Ryder, Karen Uehling
Adjunct Graduate Faculty: James Frost, Kevin Wilson

General Information

The Graduate Certificate in Technical Communication is intended for students enrolled in any graduate degree program and for local professionals. A graduate student in geophysics, for instance, might wish to earn the certificate because he knows that he will be making presentations at professional conferences and writing journal articles. An accountant might wish to improve her technical communication skills to enhance her work performance. The 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

The minimum requirement for admission to the certificate program is a baccalaureate degree from a regionally accredited college or university and admission to the Graduate College. In addition, applicants must submit to the Director of Technical Communication a 500-word statement explaining how the Graduate Certificate relates to their broader educational goals.

Application Procedures

An applicant to the certificate program should follow the general application procedures for admission to a graduate program (see Application for Admission to a Graduate Program). Once the applicant's file is complete, it will be reviewed by the Director of Technical Communication, who will provide an admission recommendation to the Dean of the Graduate College. The Dean will make the final admission decision and notify the applicant.

Graduate Certificate in Technical Communication

Certificate Requirements

Graduate Certificate in Technical Communication	
Course Number and Title	**Credits**
Required Courses ENGL 512 Technical Rhetoric and Applications 3 ENGL 513 Technical Editing 3 ENGL 514 Technical Communication Ethics 3	9
Elective Courses Select two of the following: EDTECH 574 Instructional Software Development and Courseware Design....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 Students who wish to substitute an alternative course for one of the two listed electives may petition the Director of Technical Communication	6
TOTAL	**15**

Course Offerings

REQUIRED COURSES

ENGL — ENGLISH

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.

ELECTIVE COURSES

EDTECH — EDUCATIONAL TECHNOLOGY

EDTECH 574 INSTRUCTIONAL SOFTWARE DEVELOPMENT AND COURSEWARE DESIGN (3-0-3)(S). Students will practice the elements of courseware design for computer delivery as they learn a programming language. Students will learn programming basics and interface design.

ENGL — ENGLISH

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 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 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 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 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 the fields of cognitive science, software psychology, and human factors. This course may be taken twice for credit. PREREQ: ENGL 515 or PERM/INST.

IPT — INSTRUCTIONAL & PERFORMANCE TECHNOLOGY

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.

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 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 ANALYTICAL CHEMISTRY (3-0-3)(F). Advanced analytical methodology with a focus on modern chemical instrumentation, signal processing, and error analysis. PREREQ: CHEM 212 and CHEM 322.

CHEM 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 (3-0-3)(S). Identification of compounds using modern spectrometric techniques. PREREQ: CHEM 318 and CHEM 321.

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.

DISPUT — DISPUTE RESOLUTION

DISPUT 500 BASIC MEDIATION SKILLS (3-0-3)(F/S). Students learn the theoretical foundations of negotiation and mediation, types of mediation, mediation models, mediation case work skills, building the mediation plan, interpersonal communication skills for mediation, and various resolution techniques. Students will mediate several simulated and/or actual practice cases.

DISPUT 501 HUMAN FACTORS IN CONFLICT MANAGEMENT (1-0-1)(F/S). This course presents communication theories to assist managers in understanding, analyzing, and managing conflict. The course focuses on the causes of conflict, and includes the influence of gender and culture. This course is pragmatic as well as theoretical.

DISPUT 502 NEGOTIATION THEORY AND PRACTICE (1-0-1) (F/S). The successful manager in professional settings is involved in a variety of negotiation activities. The tactics, strategies, and operations of effective and ineffective bargaining/negotiating behaviors will be presented. The course develops negotiator skills and knowledge leading to collaborative based actions and solutions.

DISPUT 503 CONFLICT INTERVENTION METHODS (1-0-1) (F/S). This course overviews the various contexts of third party intervention into conflicts: facilitation, public involvement processes, mediation, and arbitration and develops skills at first level supervisor/manager intervention into employee conflicts.

DISPUT 546 MEDIATION COMPETENCY BOARDS (0-0-1)(F/S). Competency-based testing is required by several mediation professional organizations. Students conduct case work and mediate a case from within their emphasis area before a panel of expert mediators. Students discuss issues related to mediation within their specialty area. (Pass/Fail). PREREQ: PERM/PROGRAM DIRECTOR.

GENDER — GENDER STUDIES

GENDER 580 SELECTED TOPICS IN GENDER STUDIES (3-0-3) (F/S). Graduate-level studies of a particular topic relating to the field of gender studies.

PHYS — PHYSICS

PHYS 512 INTRODUCTORY QUANTUM MECHANICS (3-0-3) (F/S). Introduction to fundamentals of quantum mechanics, including Schroedinger equation, energy levels, angular momentum, electron spin, perturbations, and scattering. Applications, such as tunneling, orbitals, magnetic resonance, and nanoscale effects. PREREQ: PHYS 309.

PHYS 515 SOLID STATE PHYSICS (3-0-3)(F/S). Quantum physics applied to understanding the properties of materials, including semiconductors, diffraction, lasers, and holography. PREREQ: PHYS 309.

PHYS 523 PHYSICAL METHODS OF MATERIALS CHARACTERIZATION (3-0-3)(S). Physical principles and practical methods used in determining the structural, electronic optical, and magnetic properties of materials. Course topics will include optical, electron, and scanning microscopies, diffraction, surface analysis, optical spectroscopy, electrical transport, and magnetometry. Individual projects will focus on the application of an analytical technique to solve a specific problem. PREREQ: PHYS 309 or PERM/INST.

PHYS 530 OPTICS (3-0-3). Geometrical and physical optics, including lenses, fiber optics, Fourier optics, polarization, interference, diffraction, lasers, and holography. PREREQ: PHYS 212, MATH 333. COREQ: PHYS 534.

PHYS 532 THERMAL PHYSICS (3-0-3)(S). Discussion of temperature, work, specific heat, and entropy. The laws of thermodynamics are discussed and applied to physical problems. Ideal gases, statistics, Gibbs free energy, and cryogenics. Work on heat transfer of lattice vibrations and phonons will be required. PREREQ: Graduate standing in Engineering or PERM/INST.

PHYS 534 OPTICS LABORATORY (0-3-1). Laboratory to be taken concurrently with PHYS 530. Experiments in optics, including optical systems, thick lenses, interference, diffraction, Fourier optics, image processing, and holography. COREQ: PHYS 530.

PHYS 572 ELECTROMAGNETISM (3-0-3)(S). Electromagnetic theory derived from Maxwell's equations. Applications to electromagnetic fields in materials, including dielectrics, magnetization, wave propagation through materials, stress tensors, and radiation. PREREQ: PHYS 381 or EE 390.

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). Advanced topics in univariate statistics (for example, repeated measures designs) and multivariate techniques such as discriminant analysis, factor analysis, and principal component analysis. PREREQ: PSYC 321 or equivalent or PERM/INST.

PSYC 421G PSYCHOLOGICAL MEASUREMENT (3-0-3)(F). Theory and nature of psychological measurement together with a survey of types of psychological tests currently used. PREREQ: PSYC 321.

PSYC 438G COMMUNITY PSYCHOLOGY (3-0-3)(F,S). Focuses on human and social problems in a systemic context. Primary prevention and community empowerment strategies employed for individual, community, and social benefit are emphasized.

SOC — SOCIOLOGY COURSES

SOC 500 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 502 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 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 535 DRUGS IN SOCIETAL CONTEXT (3-0-3)(F/S). This class applies the sociological perspective on social problems to drug use. It examines how different social groups use drugs, attempt to control and prohibit the use of drugs, and the societal effects of using and controlling the use of drugs.

SOC 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 May 2004

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)
Associate Professor, Social Work; Ph.D., University of Illinois-Urbana-Champaign

Alm, Leslie ....(1991)
Director of Graduate Studies, and 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

Andersen, Timothy....(2001)
Assistant Professor, Computer Science; Ph.D., Brigham Young University

Anderson, Holly L.... (1989)
Professor, Curriculum, Instruction and Foundational Studies; Ph.D., Utah State University

Anooshian, Linda James....(1988)
Professor, Psychology; Ph.D., University of California, Riverside

Anson, Robert....(1990)
Professor, Networking, Operations, and Information Systems; Ph.D., Indiana University

Armstrong, James....(1992)
Professor, Curriculum, Instruction and Foundational Studies; Ph.D., University of Illinois

Atlakson, Philip....(1985)
Professor, Theatre Arts; M.A., State University of New York, Binghamton

B

Bacon, Stephanie....(1998)
Associate Professor, Art; M.F.A., Brooklyn College

Bahnson, Paul R. ....(1999)
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)
Chair and 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

Barbour, Barton....(2001)
Assistant Professor, History; Ph.D., University of New Mexico

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, Curriculum, Instruction and Foundational Studies; Ph.D., Purdue University

Bartoszynski, Tomek ....(1996)
Professor, Mathematics; Ph.D., Warsaw University, Poland

Battalio, John T ....(1995)
Associate Professor, English; Ph.D., Texas A & M University

Baughn, C. Christopher ....(1998)
Professor, Management; Ph.D., Wayne State University

Beach, John ....(2003)
Associate Professor, Elementary Education and Specialized Studies; Ph.D., State University of New York-Albany

Bechard, Marc Joseph....(1983)
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)
Professor, Kinesiology; Ph.D., Virginia Polytechnic Institute and State College

Belthoff, James....(1993)
Graduate Program Coordinator and 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 and School Counseling Program Coordinator, Counselor Education, Ph.D., Oregon State University

Bixby, Michael B ....(1981)
Professor, Management; J.D., University of Michigan

Blackwell, Elise ....(2004)
Assistant Professor, English; M.F.A., University of California at Irvine

Blain, Michael ....(1982)
Chair and Professor, Sociology; Ph.D., University of Colorado

Blakeslee, Laurie....(2001)
Assistant Professor, Art; M.F.A., University of Arizona

Blankenship, Jim ....(1977)
Professor, Art; M.F.A., Otis Art Institute

Blankenship, Michael....(2003)
Dean, College of Social Sciences and Public Affairs and Professor, Criminal Justice Administration; Ph.D., Sam Houston State University

Bostaph, Lisa Growette....(2004)
Assistant Professor, Criminal Justice Administration; Ph.D., University of Cincinnati

Boucher, Teresa....(1997)
Chair and Associate Professor, Modern Languages and Literatures, Ph.D., Princeton University

Brady, Lisa Marie ....(2004)
Assistant Professor, History; M.Ed., Montana State University, Billings

Bratt, J. Wallis....(1970)
Associate Professor, Music; M.M., University of Utah

Brendefur, Jonathan....(2000)
Assistant Professor, Elementary Education and Specialized Studies; Ph.D., University of Wisconsin, Madison

Brill, Stephen H....(1998)
Associate Professor, Mathematics; Ph.D., University of Vermont

Brown, Marcellus....(1989)
Associate Professor, Music; M.M., University of Michigan

Browning, William B....(1996)
Associate Professor, Modern Languages and Literatures, D.M.L., Middlebury College

Buchanan, Mark A....(1996)
Director of International Business Program and Associate Professor, Management; LL.M., University of Illinois at Urbana-Champaign

Budde, James....(1997)
Associate Professor, Art; M.F.A., California State University, Fullerton

Buffenbarger, James....(1991)
Associate Professor, 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)
Associate Professor, Mathematics and Computer Science; Ph.D., University of Iowa

Bunnell, David....(1996)
Assistant Professor, Mechanical Engineering; Ph.D., University of Texas at Austin

Burkhart, Ross....(2004)
Associate Professor, Political Science; Ph.D., University of Iowa

C

Campbell, Ann ....(2004)
Assistant Professor, English; Ph.D., Emory University

Centanni, Russell....(1973)
Professor, Biology; Ph.D., University of Montana

Charlier, Henry A....(2000)
Assistant Professor, Chemistry; Ph.D., Medical College of Wisconsin

Chavez, Carolyn....(2000)
Assistant Professor, Management; Ph.D., State University of New York

Christensen, Steve ....(1987)
Associate Professor, Curriculum, Instruction and Foundational Studies; Ph.D., University of Idaho

Chyung, Seung Youn (Yonnie) ....(1997)
Assistant Professor, Instructional and Performance Technology; Ed.D., Texas Tech University
Coll, Kenneth M ....(1998)
Chair, Professor and Addictions Studies Coordinator, Counselor Education; Ph.D., Oregon State University
Constant, Isabelle ....(1998)
Associate Professor, Modern Languages and Literatures; Ph.D., University of Arizona
Cook, Devan....(1997)
Director, Writing Program and Associate 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)
Chair, Graduate Program Coordinator and 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
Craner, G. Dawn ....(1973)
Associate Professor, Communication; M.A., Purdue University

D

Darling, Sharon....(2003)
Assistant Professor, Elementary Education and Specialized Studies; Ph.D., Georgia State University
Dawson, Paul ....(2000)
Professor, Mechanical Engineering; Ph.D., Washington State University
Dayley, Jon Philip ....(1982)
Professor, English; Ph.D., University of California, Berkeley
DeBeliso, Mark....(2000)
Assistant Professor, Kinesiology; Ph.D., Oregon State University
Donaldson, Paul R....(1975)
Director of CGISS and Professor, Geosciences; Ph.D., Colorado School of Mines
Dubert, LeeAnn....(1992)
Associate Professor, Curriculum, Instruction and Foundational Studies; Ph.D., University of Wisconsin, Madison
Dufty, Alfred M ....(1988)
Associate Chair and Professor, Biology; Ph.D., State University of New York, Binghamton
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)
Professor, Mechanical Engineering; Ph.D., State University of New York, Buffalo
Eisley, Mark....(1990)
Associate Professor, Instructional & Performance Technology; Ph.D. Brigham Young University
Elison, Pat....(1986)
Administrative Director, Legal Assistant Program: Associate Professor, Health Studies; Ph.D., University of Idaho
Ellis, Robert W ....(1971)
Professor, Chemistry; Ph.D., Oregon State University
English, Thomas J ....(1996)
Chair and Professor, Accountancy; Ph.D., Arizona State University
Erickson, Gary....(1996)
Professor, Electrical and Computer Engineering; Ph.D., University of Wyoming

F

Feldman, Alex....(1988)
Graduate Program Coordinator and Associate Professor, Computer Science and Associate Professor, Mathematics; Ph.D., University of Wisconsin Madison
Ferguson, James R ....(2000)
Associate Professor, Mechanical Engineering; Ph.D., Washington State University
Fischer, Michael A.....(2002)
Assistant Professor, Music; DMA, University of North Texas
Foster, Thomas....(1997)
Professor, Networking, Operations, and Information Systems; Ph.D., University of Missouri-Columbia
Fox, Francis ....(1999)
Assistant Professor, Art; M.F.A., University of Wyoming
Francis, John....(2002)
Assistant Professor, Art; M.F.A., University of Wyoming
Frankle, Alan....(1984)
Professor, Marketing and Finance; Ph.D., University of Arizona
Franklin, Cheryl A....(2004)
Assistant Professor, Curriculum, Instruction, and Foundational Studies; Ph.D., University of Virginia
Fredericksen, Patricia J ....(1999)
Chair, Political Science and 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
Fry, Phillip C....(1987)
Director of Graduate Studies and Associate Professor, Networking, Operations, and Information Systems; 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, Networking, Operations, and Information Systems; Ph.D., University of Oregon
Gardner, John F....(2000)
Chair and Professor, Mechanical Engineering; Ph.D., Ohio State University
Garza, Maria Alicia....(1997)
Associate Professor, Modern Languages and Literatures, Ph.D., University of Arizona
Gehrke, Pamela ....(1998)
Associate Professor, Health Science; M.S., University of Portland
Giacomazzi, Andrew ....(1998)
Graduate Program Coordinator and Associate Professor, Criminal Justice Administration; Ph.D., Washington State University
Gibson, Terry-Ann Spitzer ....(2003)
Associate Professor, Kinesiology; Ph.D., University of Idaho
Gill, Jill K....(2000)
Assistant Professor, History; Ph.D., University of Pennsylvania, Philadelphia
Girvan, James....(2000)
Dean, and Professor, College of Health Sciences; Ph.D., University of Oregon
Glen, Roy....(1982)
Associate Professor, Management; Ph.D., Case Western Reserve University
Gough, Newell “Sandy” ....(1989)
Chair and Professor, Management; Ph.D., University of Utah
Gould, Elizabeth....(1999)
Associate Professor, Music; D.M.A., University of Oregon
Grantham, Stephen B ....(1982)
Associate Professor, Mathematics; Manager, Enrollment Information Systems; Ph.D., University of Colorado
Gregory, Anne E ....(2002)
Assistant Professor, Elementary Education and Specialized Studies; Ph.D., Purdue University
Green, Gary I....(1988)
Professor, Networking, Operations, and Information Systems; Ph.D., University of Washington
Gribb, Molly M....(2000)
Associate Professor, Civil Engineering; Ph.D., University of Wisconsin, Milwaukee
Griffin, John....(1983)
Chair and Associate Professor, Computer Science; Ph.D., Washington State University
Groebner, David F ....(1973)
Professor, Networking, Operations, and Information Systems; Ph.D., University of Utah
Guarino, Joseph C ....(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)
Professor, Art; Ed.D., University of Oregon

Hanna, Charles B.....(1996)
Associate Professor, Physics; Ph.D., Stanford University
Hansen, Marla.....(1991)
Associate Professor, Theatre Arts; M.F.A., University of Utah
Harbison, Warren.....(1977)
Professor, Philosophy; Ph.D., Syracuse University
Harkness, Daniel.....(1993)
Professor, Social Work; Ph.D., University of Kansas
Harris, Chad.....(1995)
Associate Professor, Kinesiology; Ph.D., Oregon State University
Harrison, Teresa Delgadillo.....(1997)
Graduate Program Coordinator and Assistant Professor, Curriculum, Instruction and Foundational Studies; 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
Heikkinen, Michael.....(2003)
Chair and Professor, Curriculum, Instruction and Foundational Studies; Ph.D., Utah State University
Hemmens, Craig.....(1996)
Chair and Associate Professor, Criminal Justice Administration and Academic Director, Legal Assistant Program; J.D., North Carolina Central University; Ph.D., Sam Houston State University
Henderson, Heike.....(1998)
Associate Professor, Modern Languages and Literatures; Ph.D., University of California-Davis
Hepler, Juanita.....(1991)
Professor, Social Work; Ph.D., University of Wisconsin, Madison
Hoeger, Werner W K.....(1986)
Director, Human Performance Laboratory; Professor, Kinesiology; Ed.D., Brigham Young University
Holmes, Janet.....(1999)
Director of Creative Writing and Associate Professor, English; M.F.A., Warren Wilson College
Holmes, M. Randall.....(1996)
Associate Professor, Mathematics; Ph.D., State University of New York at Binghamton
Honts, Charles R.....(1995)
Professor, Psychology; Ph.D., University of Utah
Hoste, Ann.....(1990)
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
House, Terrie.....(2004)
Assistant Professor, Counselor Education; Ph.D., Oregon State University
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, Computer Science; Ph.D., University of Central Florida
Jessing, Jeff.....(2003)
Assistant Professor, Electrical and Computer Engineering; Ph.D., Texas A&M University
Jirak, James.....(1994)
Associate Professor, Music; D.A., University of Colorado
Johnson, Richard.....(2001)
Associate Professor, Educational Technology; Ph.D., Kansas State University
Jones, Daryl E.....(1986)
Executive Assistant to the President; Director of Interdisciplinary Studies, College of Arts and Sciences; Professor, English; Ph.D., Michigan State University
Jones, Errol D.....(1982)
Professor, History; Ph.D., Texas Christian University
Jorcyk, Cheryl.....(1998)
Associate Professor, Biology; Ph.D., Johns Hopkins University

K

Kania-Bartoszynska, Joanna.....(1996)
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Kelley, Lorrie Lynn.....(1991)
CT/MRI Program Director and Associate Professor, Radiologic Sciences; M.S., Boise State University
Kelly, Philip P.....(2001)
Associate Professor; Curriculum, Instruction and Foundational Studies; Ph.D., Michigan State University
Kenny, G Otis.....(1976)
Associate Professor, Mathematics; Ph.D., University of Kansas
Kerr, Charles R.....(1969)
Professor, Mathematics; Ph.D., University of British Columbia
Khanal, Mandar.....(2000)
Associate 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
Klein, Joanne.....(2001)
Assistant Professor, History; Ph.D., Rice University
Kline-Lamar, Linda.....(2002)
Assistant Professor, Music; D.A., University of Memphis
Knoll, Michael.....(1997)
Research Professor, Geosciences, Ph.D., University of British Columbia
Knowlton, William B.....(2000)
Assistant Professor, Materials Science and 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, Kinesiology; Ph.D., University of Iowa

L

La Cava, Gerald.....(1982)
Professor, Networking, Operations, and Information Systems; Ph.D., University of Kansas
Lamar, Linda Kline.....(2002)
Assistant Professor, Music; D.A., University of Memphis
Lamelas, Francisco J.....(2000)
Associate 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
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)
Associate Professor, Social Work; Ph.D., University of Utah
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
Loo, Sin Ming.....(2004)
Assistant Professor, Electrical and Computer Engineering; Ph.D., University of Alabama in Huntsville
Loucks, Christine.....(1989)
Professor, Economics; Ph.D., Washington State University

Lubamersky, Lynn ....(2001)
Assistant Professor, History; Ph.D., Indiana University
Lucas, Shelley Marie....(2001)
Assistant Professor, Kinesiology; Ph.D., University of Iowa
Lutze, Peter C ....(1990)
Associate Professor, Communication; Ph.D., University of Wisconsin
Lyle, Mitchell ....(1995)
Research Professor, Geosciences; Ph.D., Oregon State University
Lyons, Lamont S ....(1977)
Professor, Curriculum, Instruction and Foundational Studies; 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)
Director of Graduate Studies and Professor, English; Ph.D., Catholic University of America
Martin, Susan D.....(2004)
Assistant Professor, Literacy; Ph.D., University of Washington
Mathie, David ....(1992)
Professor, Music; D.M.A., University of Georgia
Mattison, Michael....(2004)
Assistant Professor, English; Ph.D., University of Massachusetts Amherst
Maxson, Emerson....(1997)
Associate Professor, Networking, Operations, and Information Systems, 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, Kinesiology, Ph.D., University of Oregon
McClain, Lisa....(2001)
Assistant Professor, History; Ph.D., University of Texas
McCloskey, Richard....(1976)
Professor, Biology; Ph.D., Iowa State University
McCorkle, Suzanne....(1978)
Director, Conflict Management Services and Professor, Communication; Ph.D., University of Colorado
McDonald, Theodore W. ....(2004)
Assistant Professor, Psychology and Health Science; Ph.D., University of Wisconsin-Milwaukee
McLuskie, C Ed Jr ....(1981)
Professor, Communication; Ph.D., University of Iowa
McNamara, James P....(1997)
Associate Professor, Geosciences; M.S., Syracuse University
McNeil, Larry....(1999)
Associate Professor, Art; M.F.A., University of New Mexico
Mead, Jodi L....(2000)
Assistant Professor, Mathematics; Ph.D., Arizona State University
Mercer, Gary D....(1975)
Professor, Chemistry; Ph.D., Cornell University
Michaels, Paul....(1994)
Graduate Program Coordinator Geophysics; Associate Professor, Geosciences, Ph.D., University of Utah
Miller, Margaret....(1994)
Professor, Counselor Education; Ph.D., University of Idaho
Miller, Nicholas....(1993)
Director of Graduate Studies and Associate Professor, History; Ph.D., University of Indiana
Miller, Rickie ....(1992)
Associate Chair and Associate Professor, Elementary Education and Specialized Studies; Ph.D., New Mexico State University
Mills, Janet Lee....(1989)
Professor, Public Policy and Administration; Communication; Ph.D., University of Kansas
Minch, Robert P ....(1986)
Professor, Networking, Operations and Information Systems; Ph.D., Texas Tech University
Mitroi, Tudor ....(2004)
Assistant Professor, Art; M.F.A., University of North Texas
Miyoshi, Kimiko ....(2003)
Assistant Professor, Art; M.F.A., University of New Mexico
Moll, Amy J....(2000)
Assistant Professor, Materials Science and 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 and Literatures; Ph.D., University of California, Davis
Mori, Carrie L ....(2003)
Assistant Professor, Elementary Education and Specialized Studies; Ph.D., University of Idaho
Morris, Daniel N....(1986)
Assistant Professor, Communication; Ph.D., University of Missouri
Most, Marshall....(1995)
Assistant Professor, Communication; M.A., Boise State University
Mueller, David G ....(2001)
Assistant Professor, Criminal Justice Administration; Ph.D., Washington State University
Munger, James C ....(1988)
Chair and Professor, Biology; Ph.D., University of Arizona
Munger, Roger....(2001)
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Murgel, George A....(2000)
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N

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Associate Professor, Networking, Operations, and Information Systems; Ph.D., University of Georgia
Napier, Nancy K....(1986)
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Neupert, Kent ....(2004)
Associate Professor, International Business; Ph.D., University of Western Ontario
Newman, Marcy J. Knopf....(2001)
Assistant Professor, English, Ph.D., Miami University
Nicholson, James A....(1986)
Director, Counseling and Testing Center; Counseling Psychologist; Professor, Counseling; Ph.D., University of Missouri, Columbia
Northrup, Clyde J....(1998)
Chair and Associate 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

O'Connor, Jacqueline ....(2001)
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Odahl, Charles M....(1975)
Professor, History; Ph.D., University of California, San Diego
Olsen-Smith, Steven....(2000)
Assistant Professor, English; Ph.D., University of Delaware
Orr, Martin....(2000)
Associate Professor, Sociology; Ph.D., University of Oregon
Owens, John ....(2004)
Vice President for Research and Professor, Electrical and Computer Engineering; Ph.D., Stanford University
Oxford, Julia Thom ....(2000)
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P

Palmer, Rosemary ....(1998)
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Parke, Stephen A....(1996)
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Parker, Ben L....(1977)
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Parkinson, Del R.....(1985)
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Parks, Donald J.....(1973)
Professor, Mechanical Engineering; Ph.D., University of Minnesota
Parrett, William H.....(1996)
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Patrick, Steven.....(1991)
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Pavesic, Max G.....(1973)
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Payne, Michelle M.....(1997)
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Payne, Richard D.....(1970)
Professor, Economics; Ph.D., University of Southern California
Peele, Thomas.....(2004)
Assistant Professor, English; Ph.D., University of South Florida
Pelton, John R.....(1981)
Dean, Graduate College and Professor, Geosciences; Ph.D., University of Utah
Penry, Tara.....(2000)
Assistant Professor, English; Ph.D., Fordham University
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Interim Chair, Graduate Program Coordinator, and Associate Professor, Bilingual Education; Ph.D., University of Colorado, Boulder
Petlichkoff, Linda M.....(1987)
Graduate Program Coordinator and Professor, Kinesiology; Ph.D., University of Illinois
Pfeiffer, Ronald.....(1979)
Professor, Kinesiology; Ed.D., Brigham Young University
Plew, Mark G.....(1984)
Chair and Professor, Anthropology; Ph.D., Indiana University, Bloomington
Pollard, Constance.....(1993)
Professor, Educational Technology; Ph.D., University of Nebraska, Lincoln
Punnoose, Alex.....(2003)
Assistant Professor, Physics; Ph.D., Aligarah Muslim University of India
Purdy, Craig A.....(1987)
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R

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Ray, Nina Marie.....(1986)
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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
Reimann, Richard J.....(2004)
Professor, Physics; Ph.D., University of Washington
Reischl, Uwe.....(2002)
Director, Center for Health Policy and Professor of Health Studies; Ph.D., University of California, Berkeley
Reynolds, R Larry.....(1979)
Professor, Economics; Ph.D., Washington State University
Robbins, Bruce.....(1990)
Associate Professor, English; Ph.D., Indiana University
Robertson, Ian C.....(2000)
Assistant Professor, Biology; Ph.D., Simon Fraser University, Burnaby B.C., Canada
Rogien, Lawrence.....(1993)
Assistant Professor, Curriculum, Instruction and Foundational Studies; 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
Rohrig, Kathleen L Ayers.....(1983)
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Rosine, Gary.....(1995)
Professor, Art; Ph.D., School of Visual Arts, Pennsylvania State University
Routh, Partha.....(2003)
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Rudd, Robert A.....(1985)
Associate Professor, Communication; Ph.D., University of Oregon
Rushing-Raynes, Laura.....(1999)
Associate Professor, Music; D.M.A., University of Arizona
Russell, Dale D.....(1995)
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)
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S

Sabick, Michelle.....(2003)
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Samball, Michael.....(1976)
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Sanderson, Irene (Rena).....(1994)
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Sanderson, Richard Ken.....(1971)
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Sarin, Shikhar.....(2002)
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Saunders, David.....(1997)
Associate 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)
Associate Dean, College of Arts and Sciences and Professor, Chemistry; Ph.D., University of Utah
Schooley-Pettis, Diane.....(1989)
Associate Dean, College of Business and Economics and Professor, Marketing and Finance; Ph.D., University of Colorado, Boulder
Schrader, Cheryl.....(2004)
Dean and Professor, College of Engineering; Ph.D., University of Notre Dame
Schmitz, Mark.....(2004)
Assistant Professor, Geosciences; Ph.D., Massachusetts Institute of Technology
Sego, Trina.....(2002)
Associate Professor, Marketing and Finance; Ph.D., University of Texas at Austin
Seibert, Pennie S.....(1990)
Chair and Professor, Psychology; Ph.D., University of New Mexico
Sener, Joseph.....(1996)
Associate Professor, Civil Engineering; Ph.D., Northwestern University
Serpe, Marcelo.....(1998)
Associate Professor, Biology; Ph.D., University of California, Davis
Shadle, Susan.....(1997)
Associate Professor, Chemistry, Ph.D., Stanford University
Shallat, Todd A.....(1985)
Professor, History; Ph.D., Carnegie-Mellon University
Shannon, Patrick.....(1974)
Chair and Professor, Networking, Operations, and Information Systems; Ph.D., University of Oregon
Shimon, Jane.....(2001)
Assistant Professor, Kinesiology; Ed.D., University of Northern Colorado
Shuck, Gail.....(2001)
Assistant Professor, English; Ph.D., University of Arizona
Shurtleff-Young, Cheryl.....(1978)
Graduate Program Coordinator and 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
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)
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Smith, Kirk ..... (1993)
Graduate Programs Coordinator, College of Business; Associate Professor, Marketing and Finance; Ph.D., University of Houston

Smith, Mary Jarratt ..... (1987)
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Smith, William S. ..... (1973)
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Smulovitz, Anika ..... (2004)
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Snow-Gerono, Jennifer L. ..... (2004)
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Snyder, Walter S ..... (1984)
Professor, Geosciences; Ph.D., Stanford University

Spear, Caile E ..... (1996)
Associate Professor, Kinesiology; Ph.D., University of Arkansas

Springer, Pamela ..... (1989)
Chair and Associate Professor, Nursing; Ph.D., Idaho State University

Steiner, Stanley ..... (1992)
Professor, Elementary Education and Specialized Studies; Ph.D., University of Wyoming

Stephenson, Dale ..... (2003)
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Stepich, Donald A. ..... (1998)
Associate Professor, Instructional and Performance Technology; Ph.D., Purdue University

Stewart, Roger ..... (1995)
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Stoffels, Sharon ..... (2002)
Associate Professor, Nursing; M.S.N., California State University, Dominguez Hills

Stohr, Mary ..... (1993)
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T

Tabor, Sharon W ..... (1998)
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Taye, John A ..... (1975)
Professor, Art; M.F.A., Otis Art Institute

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)
Professor, Mechanical Engineering, Ph.D., Wayne State University

Thorsen, Carolyn ..... (1987)
Chair and Professor, Educational Technology; Ph.D., Utah State University

Toevs, Sarah E ..... (2000)
Director, Associate Professor and Graduate Program Director, Master of Health Science Program; Ph.D., University of Utah, Salt Lake City

Traynowicz, Laurel Hetherington ..... (2000)
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Trusky, Tom ..... (1970)
Professor, English; M.A., Northwestern University

Turner, Lee Ann ..... (1996)
Associate Professor, Art; Ph.D., University of Pennsylvania

Turrisi, Robert ..... (1995)
Professor, Psychology; Ph.D., State University of New York at Albany

Twight, Charlotte ..... (1986)
Professor, Economics; Ph.D., University of Washington

Tyson, Liana L. ..... (1998)
Associate Professor, Music; D.M.A., Eastman School of Music

U

Uehling, Karen S ..... (1981)
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Uh, Gang-Ryung ..... (2003)
Assistant Professor, Computer Science; Ph.D., Florida State University

V

Vaughn, Ross E. ..... (1973)
Chair and Professor, Kinesiology; Ph.D., Washington State University

W

Waite, Wenden W ..... (1976)
Director, Office of College and School Partnerships and Field Experience and Professor, Elementary Education and Specialized Studies; Ph.D., Utah State University

Walen, Sharon ..... (1996)
Graduate Program Coordinator and Professor, Mathematics; Ph.D., Washington State University

Walsh, Anthony ..... (1984)
Professor, Criminal Justice Administration; Ph.D., Bowling Green State University

Wanek, James E ..... (1997)
Professor, Management, Ph.D., University of Minnesota

Ward, Frederick R ..... (1969)
Professor, Mathematics and Computer Science; Ph.D., Virginia Polytechnic Institute State University

Ward, Keith ..... (1999)
Assistant Professor, Management; Ph.D., Ohio State University

Weatherby, James B ..... (1989)
Chair and Associate Professor, Public Policy and Administration; Political Science; Ph.D., University of Idaho

West, Elizabeth A. ..... (2004)
Assistant Professor, Education; Ph.D., University of Washington

White, Craig ..... (1980)
Professor, Geosciences; Ph.D., University of Oregon

White, Harry ..... (1988)
Chair and 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)
Associate Professor, English; M.F.A., University of Alabama

Wilkins, David E. ..... (2000)
Graduate Program Coordinator, Earth Science and Assistant Professor, Geosciences; Ph.D., University of Utah

Willison, Scott ..... (1997)
Director, Center for Multicultural & Educational Opportunities and Associate Professor, Curriculum, Instruction and Foundational Studies; Ph.D., Indiana University

Wilson, Martha K ..... (1994)
Interim Director, and Associate Professor, Social Work; Ph.D., University of Alabama

Wingett, Denise G. ..... (2004)
Assistant Professor, Biology; Ph.D., Washington State University

Winiecki, Donald J ..... (1996)
Associate 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, Networking, Operations, and Information Systems, Ph.D., Case Western Reserve University

Wojtkowski, Wita ..... (1997)
Professor, Networking, Operations, and Information Systems, Ph.D., Case Western Reserve University

Wollheim, Peter ..... (1989)
Associate Professor, Communication; Ph.D., McGill University

Wood, L. Shelton ..... (1994)
Associate Dean, College of Social Sciences and Public Affairs and Associate Professor, History; Ph.D., University of California, Los Angeles

Wyers, Giselle ..... (2000)
Assistant Professor, Music; D.M.A., University of Arizona

Y

Yeh, Jyh-haw ..... (2000)
Assistant Professor, Computer Science; Ph.D., University of Florida

Young, Richard A ..... (1994)
Gallery Director, Chair 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 May 2004

NOTE: The date in parentheses is the year of first graduate appointment.

A

Aksamit, Pat, Ph.D., Health Science ....(2001)
Albright, Laura, M.H.S., Health Science....(1998)
Allaire, Bobbie M., M.S., Instructional Technology....(1994)
Andersen, Rudy, D.D.S., Health Sciences Emeritus ....(2003)
Arnone, Francesca, D.M.A., Music....(2004)

B

Baehr, Paul, M.D., Kinesiology ....(2002)
Baker, Edward, Ph.D., Health Sciences....(2002)
Bart, Jonathan, Ph.D., Biology ....(1997)
Basom, Marnie, M.P.H., Health Sciences ....(2002)
Beecham, John J., Ph.D., Biology....(1986)
Belcheir, Marcia J., Ph.D., Instructional Technology....(1996)
Bentley, Elton D., Ph.D.,Geosciences Emeritus ....(1981)
Blacklock, Karen, Ed.D., Education ....(2003)
Bond, Laura, M.S., Biology....(2001)
Bostron, John, M.M., Music....(2002)
Boyer, Dale, Ph.D., English (Emeritus)....(1968)
Bradford, John, Ph.D., Geosciences ....(2004)
Breithaupt, David L., Educational Technology ....(2000)
Brewer, Kenneth, ABD/Ph.D., Biology....(2002)
Brown, Karen, Ph.D., Art....(2004)
Bryant, Amy, Ph.D., Biology....(2004)
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)
Christensen, Fred, M.B.A., C.P.A., C.G.F.M., Accountancy ....(2003)
Clement, William P., Ph.D., Geosciences....(1998)
Clemo, Thomas M., Ph.D., Geosciences ....(1998)
Colby, Conrad, Ph.D., Health Sciences Emeritus....(1970)
Corbin, Robert, M.A., Sociology ....(1990)
Crookham, Larry K., M.S., Instructional Technology ....(1996)
Curry, Stacie L., Ed.D., Education....(2004)
Cusack, Barry Justin, M.D., Kinesiology....(2003)

D

Dare, Matthew, Ph.D., Biology....(2002)
Daughdrill, Gary W., Ph.D., Biology ....(2004)
Davydov, Vladimir I., Ph.D., Geosciences ....(1999)
DeMuelle, Lisa, Ph.D., Educational Technology ....(2002)
Dickelman, Gary J., M.A., Instructional Technology....(2004)
Donato, Mary M., Ph.D., Geosciences ....(1996)
Douglas, Dorothy, Ph.D., Biology Emeritus ....(1987)
Dunaway, Gerald F., Ph.D., Health Sciences....(2003)
Dunham, Jason, Ph.D., Biology....(2004)

E

Eldridge, David, Ph.D., Biology....(2001)
Emerson, Mark, M.Div., ABD/Ph.D. ....(2001)
Earnst, Susan, Ph.D., Biology....(1997)
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Fletcher, Andrea, M.P.H., Health Sciences ....(2002)
Freeman, Brenda, Ph.D., Counselor Education ....(1996)
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Henbest, Margaret, M.S., Health Science....(1998)
Hill, Lyla, M.S., Health Science....(1997)
Hoff, Kathleen Jody, M.B.A., Education....(2001)
Hoffman, Rebecca, Theatre Arts....(1997)
Hollenbaugh, Kenneth M., Ph.D., Geosciences (Emeritus)....(1968)
Holmes, Robina, M.Ed., Education ....(1992)
Huglin, Linda M., Ph.D., Instructional Technology ....(2004)

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Ilett, Frank Jr., M.B.A., Accountancy ....(1996)
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Keller-Peck, Cynthia, Ph.D., Biology....(2002)
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Kidder, Brenton A., Ed.D., Education ....(1999)
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Knick, Steven T. Ph.D., Biology ....(1990)
Knowles, Todd Allen, Ed.D., Education ....(2001)
Knox, Ellis (Skip) Ph.D., History ....(1990)
Kobe, Nancy, M.Ed., Counselor Education....(1998)
Kochert, Michael, M.S., Biology....(1987)

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Langenfeld, Mary, Ph.D., Education....(2000)
Lanzet, Steven, M.Ed., Counselor Education....(1998)
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Lohr, Linda, Ed.D., Instructional Technology....(2004)
Louis, Galen, M.S., Health Science....(1996)
Lovin, Hugh, Ph.D., History Emeritus....(1971)
Luke, Robert A., Ph.D., Physics, Emeritus....(1971)

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Ma, Yongsheng, Ph.D., Biology....(1998)
MacGregor, Carol, Ph.D., History....(1998)
Marti, Jr. Carl D., Ph.D., Biology....(1987)
Martini, MaryAnn, M.A., Education....(2000)
Marsh, Kevin R., Ph.D., History....(2002)
Marzluff, John M., Ph.D., Biology....(1991)
Mazaika, Rosemary, M.S., Biology....(1994)
McClure, Kenneth R., J.D., Public Policy and Administration....(1997)
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McNeel, Steven C., Ph.D., History....(2003)
Melquist, Wayne, Ph.D., Biology....(1988)
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Moore, Heber G., Ph.D., Instructional Technology....(1996)
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Newman, Nicholas, M.A., Art....(2004)
Nodler, Phyllis, M.S., Counselor Education....(1999)
Noonan, Elizabeth (Bonnie), M.S., Education....(1994)

O

Oberbeck, Verne, Ph.D., Geosciences....(1994)
Olsen, Thomas H., Ed.D., C & I Foundational Studies....(2001)
Olson, Richard D., Ph.D., Biology....(1997)
Olson, Richard, Ph.D., Health Science....(1997)
Othberg, Kurt L., Ph.D., Geosciences....(1996)
Ourada, Patricia K., Ph.D., History Emeritus....(1973)

P

Paris, Anthony, J., Ph.D., Mechanical Engineering....(2001)
Park, Susan, J.D., Management....(1999)
Pearson, Thel, Ph.D., Education Emeritus....(1981)
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Pullen, Rebecca, Ph.D., Biology....(1994)

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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., Education....(1998)
Rosentreter, Roger, Ph.D., Biology....(1987)
Roy, Baishali, Ph.D., Geosciences....(2003)
Rucker, Jack P., B.A., Economic Education....(2001)
Rush, Mike, Ed.D., Education....(1999)
Ryan, Randall, Ph.D., Biology....(1998)
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Sallabanks, Rex, Ph.D., Biology....(1994)
Salo, Lucinda F., Ph.D., Biology....(2003)
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Schlee, Conni, Ph.D., Elementary Education....(2002)
Schoch, Leslie J., Masters of Early Childhood Education, Health Sciences....(2004)
Schrader, Vincent E., Ph.D., Educational Technology....(2004)
Schweibert, Penelope, Ph.D....(1999)
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Shea, Kevin, M.D., Kinesiology....(2001)
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Smith, Scott, Ph.D., Economics....(1999)
Smith, Scott F., Ph.D., Electrical and Computer Engineering....(2004)
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Spinosa, Claude, Ph.D., Geosciences Emeritus....(1970)
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Steenhof, Karen, M.S., Biology....(1987)
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Stevenson, Kurt Brown, M.D., Health Science....(1999)
Stokes, Lee, Ph.D., Health Science Emeritus....(1988)
Stroebel, Helen, R.N., M.P.H., Health Sciences....(2001)
Sutton, Nancy Jo, D.V.M. Biology....(1999)

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Tengelsen, Leslie Ann, Ph.D., D.V.M., Health Sciences....(2002)
Thiagarajan, Sivasailam, Ph.D., Instructional Technology....(2003)
Thomas, Mary Norris, Ph.D., Instructional Technology....(2004)
Thompson, Randy, Ph.D. Health Sciences....(2001)
Toney, Patricia N. MA., Education....(1996)
Toweill, Dale, Ph.D., Biology....(2004)
Turk, Blossom M., Ed.D., Education....(2001)
Tydeman, William, Ph.D., History....(1994)

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Vakili, Donna, M.S., Educational Technology....(1996)
Van Maren, Nancy, M.A., M.S.W., Health Sciences....(1998)
Virta, Alan, M.L.S., History....(1989)
Viskupic, Karen, Ph.D., Geosciences....(2004)

W

Waag, Charles J., Ph.D., Geosciences Emeritus....(1981)
Watson, Richard T., Ph.D., Biology....(1990)
Watts, Barry, Ph.D., Counselor Education....(1996)
Weathers, Lynne Koch, M.A., Education....(1992)
Weinberg, Pamela, Ph.D., Health Sciences....(1998)
West, Stephen, M.H.S., Health Sciences....(2001)
Whitacre, David, Ph.D., Biology....(1990)
White, Courtney Reynolds, M.B.A., Business & Economics....(2003)
Wilhelm, Peggy Jo, M.S.M., Music....(2003)
Williams, Rick, Ph.D., Biology....(1989)
Wilson, Kevin, M.A., English....(1995)
Wilson, Monte, Ph.D., Geosciences Emeritus....(1971)
Wilson, Stephen K., M.P.A., Public Policy and Administration....(2003)
Wingett, Denise, Ph.D., Biology....(1999)
Wood, Spencer H., Ph.D., Geosciences Emeritus....(1977)
Worthington, Janet Evans, Ph.D., Educational Technology....(2004)

Y

Yarrington, Diane, M.H.S.A., Health Sciences....(2003)
Yense, A. Eric, Ph.D., Biology....(2002)
Youngerman, Stephanie, E.D., Education....(2002)
Yopp, Martha, Ed.D., Education....(2001)
Young, Katherine, Ed.D. Education (Emerita)....(1988)
Young, Virgil M., Ph.D., Education (Emeritus)....(1970)
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)
Chandler, David, Ph.D., Geosciences ..... (2003)
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)
Likins, Marilyn, Ph.D., Education ..... (2003)
Link, Paul Karl, Ph.D., Geosciences ..... (1987)
McCune, Mary Joan H., Ph.D., Biology ..... (1986)
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Minshall, Wayne G., Ph.D., Biology ..... (1986)
Osiensky, James, Ph.D., Geosciences ..... (1990)
Rodgers, David W., Ph.D., Geosciences ..... (1987)
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Spall, Richard D., Ph.D., Biology ..... (1986)
Stauber, Erik H., Ph.D., Biology ..... (1987)
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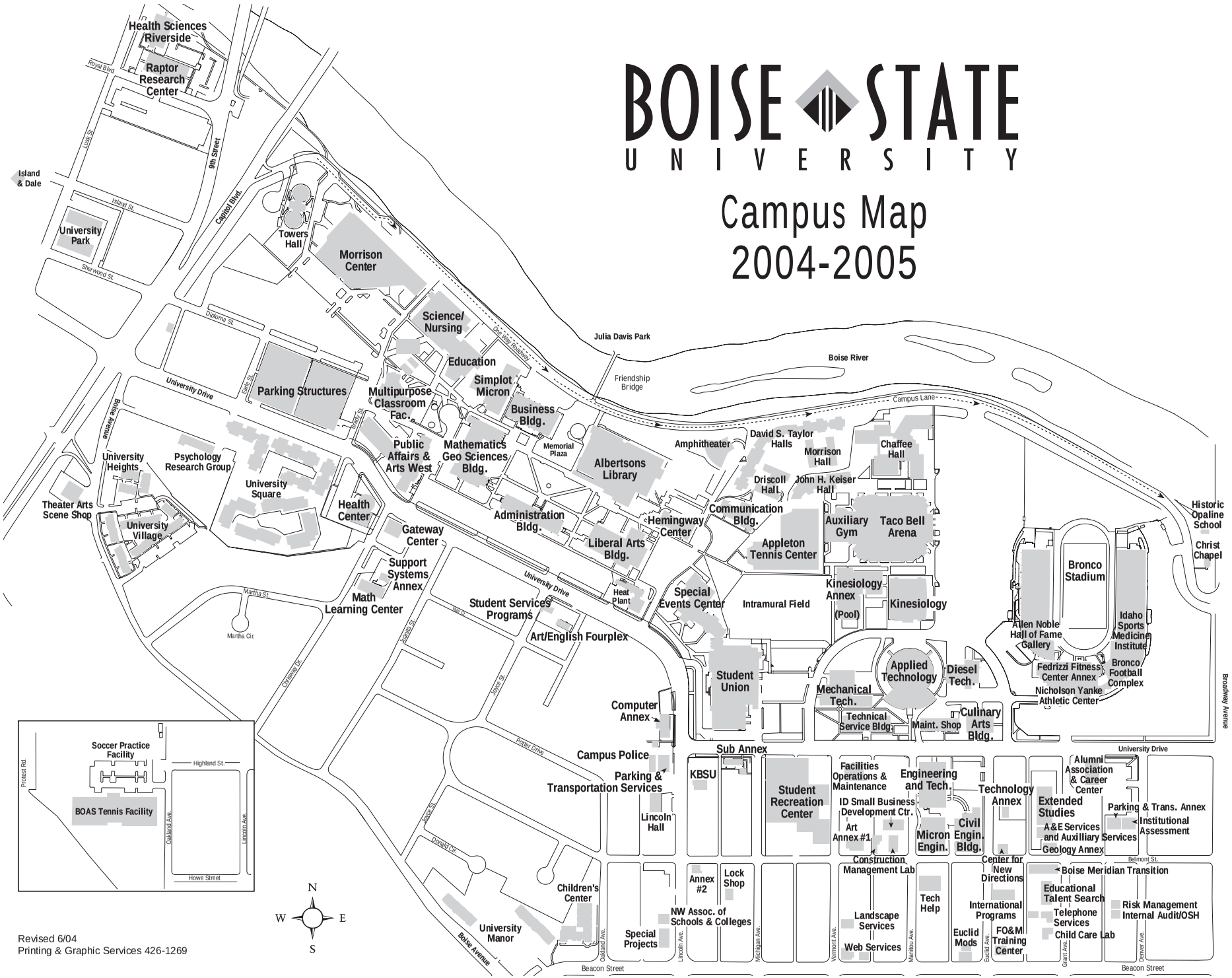

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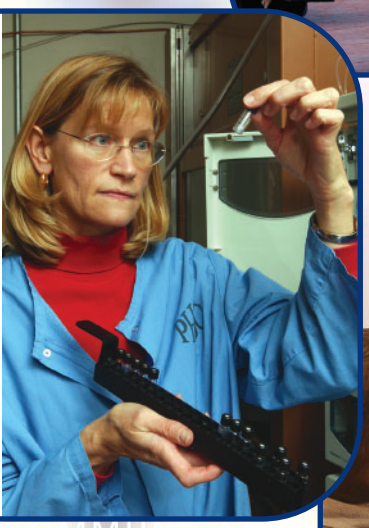

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