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Mission

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Idaho State University is a public research institution which serves a diverse population through its broad educational programming and basic, translational, and clinical research. Idaho State University serves and engages its communities with health care clinics and services, professional technical training, early college opportunities, and economic development activities. The university provides leadership in the health professions and related biomedical and pharmaceutical sciences, as well as serving the region and the nation through its environmental science and energy programs.

Core Themes:

Core Theme One: Learning and Discovery

Idaho State University promotes an environment that supports learning and discovery through the many synergies that can exist among teaching, learning, and scholarly activity.

Core Theme Two: Access and Opportunity

Idaho State University provides opportunities for students with a broad range of educational preparation and backgrounds to enter the university and climb the curricular ladder so that they may reach their intellectual potential and achieve their goals and objectives.

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- American Psychological Association (APA)
- Council on Social Work Education (CSWE)
- National Association of Schools of Music (NASC)
- National Association of Schools of Theatre (NAST)

College of Business

- Association to Advance Collegiate Schools of Business (AACSB)
College of Education
- Commission on Accreditation of Athletic Training Education (CAATE)
- National Council for Accreditation of Teacher Education (NCATE)

Division of Health Sciences
- Accreditation Council for Education in Nutrition and Dietetics (ACEND)
- Accreditation Council for Occupational Therapy Education (ACOTE)
- Accreditation Council for Pharmacy Education (ACPE)
- Accreditation Review Commission on Education for the Physician Assistant (ARC-PA)
- American Speech-Language-Hearing Association (ASHA)
- Commission on Accreditation of Allied Health Education Programs (CAAHEP)
- Commission on Accreditation in Physical Therapy Education (CAPTE)
- Commission on Collegiate Nursing Education (CCNE)
- Commission on Dental Accreditation (CODA)
- Council for Accreditation of Counseling & Related Educational Programs (CACREP)
- Council on Education for Public Health (CEPH)
- Joint Review Committee on Education in Radiologic Technology (JRCERT)
- National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
- National Council for Accreditation of Teacher Education (NCATE)

College of Science and Engineering
- Accreditation Board for Engineering and Technology (ABET)

College of Technology
- Accreditation Board for Engineering and Technology (ABET)
- Association of Technology, Management, and Applied Engineering (ATMAE)
- Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)
- Commission on Accreditation of Allied Health Education Programs (CAAHEP)
- Commission on Massage Therapy Accreditation (COMTA)
- National League for Nursing Accrediting Commission (NLNAC)

Student Outcomes Assessment
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Comprehensive information that includes student performance and student opinion is vital to the success of the assessment program. To provide this information, undergraduate students in the academic division may be asked to participate in a variety of assessment activities which may include formal and informal examinations, interviews, surveys and follow-up studies after graduation.

Federal Family Education Rights and Privacy Act of 1974
Idaho State University, in compliance with the Family Educational Rights and Privacy Act (FERPA), is responsible for maintaining educational records and monitoring the release of information of those records. Staff and faculty with access to student educational records are legally responsible for protecting the privacy of the student by using information only for legitimate educational reasons to instruct, advise, or otherwise assist students.

Only those records defined as “directory information” may be released without the express written permission of the student. Directory information includes the student’s name, address listings, telephone listings, e-mail addresses, full-time/part-time status, class level, college, major field of study, degree types and dates, enrollment status, club and athletic participation records, and dates of attendance including whether or not currently enrolled. No other information contained in a student’s educational records may be released to any outside party without the written consent of the student.

A student may restrict release of directory information through the BengalWeb (https://bengalweb.isu.edu) by accessing the "Update Addresses and Phones" screen under the Academic Tools tab. This restriction will apply to the student’s address and telephone listings only. All other directory listings will continue to be available for release.

Additional FERPA information may be found on the web at: http://www.isu.edu/areg/ferpafacts.shtml

Alumni Association and Foundations

Alumni Association
http://www.isu.edu/alumni
mailto:alumni@isu.edu

The mission of the Idaho State University Alumni Association is to promote the welfare and to advance the objectives of Idaho State University through the sustained involvement of its alumni by providing philanthropic, intellectual and social opportunities.

The association is governed by a board of directors and administered through the office of Alumni Relations, 554 S. 7th Avenue, Pocatello, in the H. F. Magnuson House.

Specific goals are to identify alumni and friends to assist Idaho State University in strengthening support from its constituencies, to inform alumni and friends about Idaho State University, to provide for the efficient management of the Alumni Association, and to involve and motivate alumni and students to maintain their affiliation and support of Idaho State University.

The officers and directors meet three times a year with the director of alumni relations, who is appointed by the university administration.

Idaho State University Bengal Foundation
The Idaho State University Bengal Foundation is a nonprofit organization formed to raise money for athletic scholarships. The main fund raising activities include an annual auction, scholarship fund drive, athlete-to-athlete phone-a-thon, several golf tournaments, and other special events held throughout the year.

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Policy Statements

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Colleges and Departments

Idaho State University is comprised of the following academic units:

College of Arts and Letters (p. 9)
College of Business (p. 9)
College of Education (p. 10)
College of Science and Engineering (p. 10)
Division of Health Sciences (p. 10)
College of Technology (p. 10)

College of Arts and Letters
Fine Arts and Humanities
- Art (http://www.isu.edu/art)
- Communication, Media, and Persuasion (http://www.isu.edu/cmp)
- English and Philosophy (http://www.isu.edu/english)
- International Studies (http://www.isu.edu/intnlst)
- Languages and Literatures (http://www.isu.edu/foreign)

School of Performing Arts (http://www.isu.edu/sopa/index.shtml)
- Music (http://www.isu.edu/sopa/programs/music/index.shtml)
- Theatre (http://www.isu.edu/sopa/programs/theatre/index.shtml)

Social and Behavioral Sciences
- Anthropology (http://www.isu.edu/anthro)
- History (http://www.isu.edu/history)
- Military Science (ROTC) (http://military.isu.edu/rotc)
- Political Science (http://www.isu.edu/polsci)
- Psychology (http://www.isu.edu/psych)
- Sociology, Social Work, and Criminology (http://www.isu.edu/sociolog)

College of Business
- Accounting (http://www.isu.edu/cob/accountingindex.shtml)
- Economics (http://www.isu.edu/cob/economics.shtml)
- Finance (http://www.isu.edu/cob/finance.shtml)
- Informatics and Computer Science (http://www.isu.edu/cob/informaticscomputer.shtml)
- Management (http://www.isu.edu/cob/management.shtml)
- Marketing (http://www.isu.edu/cob/marketing.shtml)
- MBA (http://www.isu.edu/cob/mba.shtml)
- Information Assurance (http://niatec.info/ViewPage.aspx?id=0)
College of Education

- Teaching and Educational Studies (TES) (http://ed.isu.edu/tes/index.shtml)
- Organizational Learning and Performance (OLP) (http://ed.isu.edu/olp/index.shtml)
- School Psychology and Educational Leadership (SPEL) (http://ed.isu.edu/spel/index.shtml)
- Sport Science & Physical Education (SSPE) (http://ed.isu.edu/sspe/index.shtml)

College of Science and Engineering

- Biological Sciences (http://www.isu.edu/bios)
- Chemistry (http://www.isu.edu/chem)
- Geosciences (http://www.isu.edu/geology)
- Informatics and Computer Science (http://www.isu.edu/cob/informaticscourses.shtml)
- Mathematics (http://www.isu.edu/math)
- Physics (http://www.physics.isu.edu)
- Civil and Environmental Engineering (http://engr.isu.edu/CEEhome.shtml)
- Electrical Engineering (http://engr.isu.edu/EEhome.shtml)
- Mechanical Engineering (http://engr.isu.edu/MEhome.shtml)
- Nuclear Engineering and Health Physics (http://engr.isu.edu/NEhome.shtml)

Division of Health Sciences

College of Pharmacy (http://pharmacy.isu.edu)

- Doctor of Pharmacy (http://pharmacy.isu.edu/live/prospective/pharmd.html)
- Non-Traditional Doctor of Pharmacy (http://pharmacy.isu.edu/live/prospective/nont.html)
- Pharmaceutical and Social/Administrative Sciences (http://pharmacy.isu.edu/live/prospective/graduate.html)

Kasiska School of Health Professions (http://www.isu.edu/kasiska)

- Counseling (http://www.isu.edu/hp/counseling)
- Dietetics (http://www.isu.edu/hns/dietetics)
- Health Care Administration (http://isu.edu/hns/hca)
- Health Education (http://isu.edu/hns/health)
- Medical Laboratory Science (http://www.isu.edu/cls)
- Paramedic Science (http://www.isu.edu/kasiska/paramedic)
- Public Health (http://isu.edu/hns/mph)
- Radiographic Science (http://www.isu.edu/radsci)

School of Nursing (http://www.isu.edu/nursing)

- Bachelor of Science in Nursing (http://www.isu.edu/nursing/traditional.shtml)
- MSN in Education and Leadership (http://www.isu.edu/nursing/masters.shtml)
- Doctor of Nursing Practice (http://www.isu.edu/nursing/dnp.shtml)
- PhD in Nursing (http://www.isu.edu/nursing/phd.shtml)

Office of Medical and Oral Health (http://www.isu.edu/medicaloral/index.shtml)

- Dental Hygiene (http://www.isu.edu/dentalhy)
- Dental Sciences (http://www.isu.edu/dentsci)
- Family Medicine (http://www.fmmed.isu.edu)
- Physician Assistant (http://www.isu.edu/PAsci)

School of Rehabilitation and Communication Sciences (http://www.isu.edu/rehabsciences/index.shtml)

- Communication Sciences and Disorders (http://www.isu.edu/spchpath)
- Physical and Occupational Therapy (http://www.isu.edu/dpot)

Institute of Rural Health (http://www.isu.edu/irh)

College of Technology

- Aircraft Maintenance Technology (http://www.isu.edu/ctech/aircraftmaintenance)
- Automotive Collision Repair & Refinishing Technology (http://www.isu.edu/ctech/automotivecollision)
- Automotive Technology (http://www.isu.edu/ctech/automotive)
- Bachelor of Science Health Science (http://www.isu.edu/ctech/bs-health/index.shtml)
- Bachelor of Applied Science
- Business Technology (http://www.isu.edu/ctech/business_information)
- Civil Engineering Technology (http://www.isu.edu/ctech/civil-engineering)
- Computer Aided Design Drafting Technology (http://www.isu.edu/ctech/cadd)
- Computerized Machining Technology (http://www.isu.edu/ctech/computerized_machining)
- Cosmetology (http://www.isu.edu/ctech/cosmetology)
- Diesel/On-Site Power Generation Technology (http://www.isu.edu/ctech/diesel)
- Early Childhood Care and Education (http://www.isu.edu/ctech/childdevelopment)
- Energy Systems Electrical Engineering Technology (http://www.isu.edu/estec)
- Energy Systems Instrumentation Engineering Technology (http://www.isu.edu/estec)
- Energy Systems Mechanical Engineering Technology (http://www.isu.edu/estec)
- Geomatics Technology (http://www.isu.edu/ctech/geomatics)
- Health Information Technology (http://www.isu.edu/ctech/healthinfo)
- Information Technology Systems (http://www.isu.edu/ctech/its)
- Law Enforcement (http://www.isu.edu/ctech/lawenforcement)
- Massage Therapy (http://www.isu.edu/ctech/massagetherapy)
- Medical Assisting (http://www.isu.edu/ctech/medicalassisting)
- Paralegal Studies (http://www.isu.edu/ctech/paralegal)
- Physical Therapist Assistant (http://www.isu.edu/ctech/ptas)
- Practical Nursing (http://www.isu.edu/ctech/prnur)
- Registered Nurse (http://www.isu.edu/ctech/registerednurse/index.shtml)
- Respiratory Therapy (http://www.isu.edu/ctech/respiratory)
• Robotics and Communications Systems Engineering Technology (http://isu.edu/ctech/robotics)
• Technical General Education (http://www.isu.edu/cotgened)
• Welding (http://www.isu.edu/ctech/welding)

Expenses

Fees for the academic year are set by the Idaho State Board of Education after the publication of the catalog. Fee information can be found here:

http://www.isu.edu/finserv/studentfs.shtml

Refund Policy

The Refund Policy applies to all for-credit classes regardless of location of the class.

This policy does not include the advance deposits required by the College of Technology and by the Dental Hygiene, Physical Therapy, and Physician Assistant programs in the Division of Health Sciences.

When students enrolled in for-credit classes withdraw from Idaho State University or make schedule changes that reduce their total fee obligation, refunds are made on the following basis:

General University fees paid without use of a fee reduction program:
1. Refunds are calculated and authorized by the Office of Finance and Administration. The drop/withdrawal date is the actual date the drop or withdrawal form is received by an authorized University office or automated system.
2. Refunds of registration charges for full-time fees, part-time credit hour fees, non-resident tuition, professional program fees, and departmental fees are calculated on the total amount of fees paid, using the first official day of the University semester or session as the starting date.
3. Federal refund provisions may supersede Idaho State University Refund Policy under certain conditions for federal financial aid recipients. The greater of (1) Idaho State University calculations or (2) Federal guidelines is refunded according to Federal refund requirements, when applicable.

Refunds

Academic and College of Technology Semester Classes
Before and during the first two weeks of classes: 100%
During the third week of classes: 50%
After the third week of classes: NO REFUNDS

College of Technology Sessions
Before and during the first week of classes: 100%
During the second week of classes: 50%
After the second week of classes: NO REFUNDS

For classes, seminars and workshops with nonstandard starting and ending dates, refund requests are reviewed on an exception basis. The starting and ending dates are those designated by the University Registrar.

This policy does not include the advance deposit required by the College of Technology or academic departments.

Nonrefundable Charges

1. State Board of Education-authorized reduced fee charges. (Examples include but are not limited to faculty/staff reduced fees, senior citizen reduced fees, education contract classes, etc.)
2. Late processing charges.
3. Any amounts paid to satisfy fees/charges due from previous terms.
4. Amounts paid for student malpractice insurance.
5. Student Health Insurance premiums are not refunded under this policy. Please contact the Student Insurance Coordinator at (208) 282-2972 for Student Health Insurance refund provisions.

Refunds for Exceptional Circumstances

In specific cases, as listed below, a full refund of the registration fee, credit hour fee, non-resident tuition and professional fees will be granted following official withdrawal from school, provided the withdrawal process is completed during the first half of the semester or session (i.e., first eight weeks of a semester, first four weeks of a session). Proper documentation must be presented and approval granted by the Office of Finance and Administration before the refund will be processed.

1. Military transfer of students who at the start of a semester are serving in the United States military in the Reserves, National Guard, or on active duty.
2. Incapacitating illness or injury which prevents the student from returning to school for the remainder of the term. A medical withdrawal must be processed through the University Student Health Center.
3. Death of a student.
4. Death of spouse, child, parent, or legal guardian of student.

Deductions from Refunds

The University reserves the right to deduct from refunds any amounts due the University. Refunds of actual fees for the term, less any remaining fee loan balances for the term, are used to offset financial aid awarded as prioritized below:

2. Agency authorizations for payment of actual fees.
3. University authorizations specifically for the payment of fees (i.e., graduate teaching assistant, athletics, etc.)
4. Miscellaneous outstanding balances due the University.
5. University loan programs.
6. University and donor scholarship programs.

Any balance is refunded to the student.

Payment of Refund

The student has the option of receiving a refund via check or e-refund. Refund checks or e-refunds are processed as soon as the student drops a class.

Registration Refund Appeals

Contact the Office of Finance and Administration for information on the University registration fee refund appeal process. A Tuition and Fees Refund...
Appeals form can be found at isu.edu/finserv/refundinfo.shtml under How to Appeal for Tuition Refund.

Delinquent Accounts

The Office of Finance and Administration may, without further notice, cancel current registration, withhold academic credit, place a hold on transcripts, or block future registration for any student with a delinquent account or unsatisfactory financial relationship with that office, provided the campus department in which the hold originated has attempted to notify the student. This regulation may be invoked at the discretion of the Vice President for Financial Services in cases of disregard in the settlement of returned checks, registration fees due, residence hall damage, library fines, telephone toll charges, overdue notes, traffic fines, room and/or board charges, apartment rental charges, etc.

Dishonored Check Policy

A charge of $20 is assessed each time a check is returned; this amount is charged to the student’s account and s/he is so notified. If the check is not cleared within ten days, a second notice is sent and a hold placed on his/her records.

Any check tendered in payment of registration fees and subsequently returned by the bank will result in automatic postponement of the student’s registration.

In the case of a check tendered in payment for room and board and subsequently returned by the bank, the student is notified immediately and allowed not more than five days for the check to clear. If not cleared within that time, the student’s meal ticket and/or room reservation is canceled.

Financial Aid and Scholarships

A significant number of students receive financial assistance at Idaho State University. Students frequently receive assistance from a variety of funding sources; e.g., a Pell Grant, plus an Idaho State University Freshman Scholarship, plus College Work Study.

Financial assistance programs are administered by various departments at Idaho State University. The following list identifies the types of financial funding available and the university office to contact for further information. If writing to any of the departments listed below, use the address format here:

Office Name
921 S 8th Ave Stop 8xxx
Pocatello ID 83209-8xxx

On-Campus Sources of Financial Assistance

Employment

Federal College Work Study

Off-campus (part-time or temporary)

On-campus (part-time)
Career Center, Stop 8108
Room 429, Museum Building
(208) 282-2380
Also see University departments

International Students (off-campus)
Director, International Programs, Stop 8038
Room 426, Museum Building
(208) 282-4320

International Students (on-campus)
Various University offices

Graduate Assistantships, Fellowships
Academic Department chairpersons
Graduate School, Stop 8075
Room 401, Museum Building
(208) 282-2150

Grants

Athletic Grants-in-Aid
Director of Athletics, Stop 8173
Holt Arena

(208) 282-2771

Federal Pell Grants

Federal Supplemental Educational Opportunity Grants (SEOG)

TEACH Grants
Financial Aid Office, Stop 8077
Room 337, Museum Building
(208) 282-2756

Loans

Federal Ford Direct Student Loans (subsidized and unsubsidized)

Federal Perkins Loans

Federal Parent Loans for Undergraduate Students

Federal Graduate PLUS Loans
Financial Aid Office, Stop 8077
Room 337, Museum Building
(208) 282-2756

Non-Resident Tuition Waivers*

Athletics
Director of Athletics, Stop 8173
Holt Arena
(208) 282-2771

Academic Merit

International Students

Western Undergraduate Exchange (WUE)
Scholarship Office, Stop 8391
Room 327, Museum Building
(208) 282-3315

Graduate Students
Graduate School, Stop 8075
Room 401, Museum
(208) 282-2150

Need-Based
Financial Aid Office, Stop 8077
Room 337, Museum Building
(208) 282-2756
*NOTE: Time accrued while receiving any Non-Resident Tuition Waivers may not contribute towards the length of time required for establishing Idaho residency.

Scholarships

Academic Students
Scholarship Office, Stop 8391
Room 327, Museum Building
(208) 282-3315
Academic Department chairpersons

Athletics
Director of Athletics, Stop 8173
Holt Arena
(208) 282-2771

Graduate Students
Graduate School, Stop 8075
Room 401, Museum
(208) 282-2150

Related to Major Course of Study
• College/School Scholarship Committee
• Department Chair
• Scholarship Office, Stop 8391
  Room 327, Museum Building
  (208) 282-3315

Service Awards
ASISU (Senate, Student Activities Board, Bengal)
ASISU Office, Stop 8125
Room 399, Hypostyle
(208) 282-3435

Related to Talent (e.g., music, drama)
Academic Department chairpersons

Veterans’ Educational Benefits
Veterans Coordinator, Stop 8196
Room 319, Museum Building
(208) 282-2676

Federal and State Financial Aid

Financial aid is help for meeting college costs – both direct educational costs (such as tuition, fees, books, etc.) and personal living expenses (such as food, housing, and transportation). Each year thousands of Idaho State University students rely upon student assistance funds to meet some of their college costs. The majority of these students rely upon federal and state government student assistance programs which are managed by the Financial Aid and Scholarship Office.

Major financial aid programs available through the Financial Aid and Scholarship Office include the following:

• Federal Pell Grants
• Federal Student Loans
• Federal Parent Loans for Undergraduate Students
• Federal Graduate PLUS Loans

The application form used for financial aid programs through the Financial Aid Office is the Free Application for Federal Student Aid (FAFSA). The FAFSA will cover one full academic year – fall, spring and summer semesters. Students are encouraged to submit their FAFSA as early as possible, preferably after filing tax forms for the applicable year.

Financial Aid counselors are available to discuss students’ concerns related to financial aid. The Financial Aid staff will describe the types of financial assistance available and will assist students with the application process. Financial Aid counselors can also assist students in determining the cost of attendance, how to manage money while in school, and how to identify alternative sources of funding.

Students must meet certain conditions in order to receive federal financial assistance through Idaho State University. The general conditions include the following: completion of a FAFSA to determine eligibility; admission and enrollment as a degree seeking student in an aid-eligible major; meet Financial Aid satisfactory academic progress policy; be a U.S. citizen or an eligible non-citizen; and not owe a refund or repayment on Title IV loans. Loans and work study require at least half-time enrollment. In some cases, students enrolled in fewer than six credits may qualify for Pell and TEACH grants.

To obtain more specific information, contact the Financial Aid Office, Room 337, Museum Building, 921 S 8th Ave, Stop 8077, Pocatello, ID 83209-8077, (208) 282-2756. Or use the Financial Aid and Scholarship Web page, http://www.isu.edu/finaid/.

Scholarships

The majority of scholarships at Idaho State University are administered by the Associate Director of Scholarships with the assistance of various University committees. Scholarship funds are made possible through student fees, the generosity of individuals, and contributions of business, labor, fraternal, and professional organizations.

Scholarship criteria vary (i.e., minimum grade point average, financial need, major, etc.). Scholarship announcements, including eligibility and application deadline information, are regularly distributed by the Scholarship Office through the Bengal Online Scholarship System (BOSS), to campus departments, and posted on the Scholarship Office bulletin boards located in the Hypostyle of the Pond Student Union Building. Please visit the Scholarship Office website (http://www.isu.edu/scholar) for a link to apply through the BOSS system as well as receive other valuable information. Individuals seeking information on scholarships should contact the Scholarship Office:

Scholarship Office
Museum Building, Room 327
921 South 8th Avenue, Stop 8391
Pocatello, ID 83209-8391
(208) 282-3315
http://www.isu.edu/scholar

Non-resident tuition waivers are available to qualified students who demonstrate financial need (inquiries should be addressed to the Idaho State University Financial Aid and Scholarship Office), and to students who have demonstrated strong academic ability. Contact the Scholarships Office for Non-Resident Tuition Waiver information and applications.
Student Services

Scholarships for New Incoming (First Time) Freshman or Transfer Students

The Application for Admission to ISU is the application for scholarships and Non-Resident Tuition Waivers for new incoming (first time) freshmen and/or transfer students. February 15th is the deadline for Fall entry and November 1st is the deadline for Spring entry for both new incoming freshman and transfer students. Scholarships are awarded based on academic merit and/or ACT/SAT scores.

College Learning Strategies' courses span the continuum of learning for students throughout their academic careers. For first year students, some of the classes provide a foundation for their academic experience such as orientation to the university environment and study skills. For upper level students, some of the classes assist in the learning process for a broad range of classes such as refining efficiency in reading. In all cases, the material offered in ACAD 1110 courses is available through individual conferences and workshops.

First Year Seminar (FYS)

The First Year Seminar course (ACAD 1102) assists first year students with their transition into the university. Students interact closely with instructors and participate in collaborative learning activities and exercises. Courses are co-instructed by a campus faculty or staff member and peer instructors. First Year Seminar is highly recommended for all first year students.

English for Speakers of Other Languages (ESOL)

The English for Speakers of Other Languages (ESOL) Program supports undergraduate and graduate students enrolled in academic and professional courses at Idaho State University. The program offers a wide variety of individual tutoring, as well as workshops and courses in idioms, special vocabularies, lecture comprehension, American culture, pronunciation, grammar, rhetorical styles and skills for conversation and discussion. There are also support services for international teaching assistants, an online tutorial for off-campus needs, and faculty workshops for responding to ESOL issues.

Affirmative Action/Equal Opportunity & Diversity

Rendezvous Building, Room 157
921 S. 8th Ave., Stop 8315
Pocatello ID 83209
(208) 282-3964
http://www.isu.edu/aaction/

Idaho State University strives to create an environment where all individuals feel welcome and safe. Each member of the university community shares the responsibility of creating such an environment.

The university is committed to creating and maintaining a learning environment that is free of discrimination and harassment and in which every student is treated with dignity and respect. Accordingly, the university prohibits, to the extent permitted by applicable law, discrimination and harassment against an individual on the basis of that person’s race, color, religion, gender, age, sexual orientation, national origin, ancestry, physical or mental disability, or veteran status. Harassment and discrimination will not be tolerated and should be reported to the Office of Affirmative Action/Equal Opportunity & Diversity located in the Rendezvous Building, Suite 157, (208) 282-3964.

Associated Students of Idaho State University (ASISU)

Pond Student Union, Room 215
921 S 8th Ave Stop 8125
Pocatello ID 83209-8125
(208) 282-3435
http://www.isu.edu/asisu/

The Associated Students of Idaho State University (ASISU) is the representative body for students, and functions through the leadership of the student body president, vice president,Student Senate, and numerous committees. These officers are responsible for all activities sponsored by the Associated Students. Applications for committee membership are available in the ASISU Administrative Offices. ASISU also contracts with a local law firm to offer free legal counseling to students. Detailed information on student government can be found in the Student Handbook.

Athletics Department

Holt Arena
http://www.isubengals.com/

The Athletic Department at Idaho State University is a Division I (FCS) member of the National Collegiate Athletic Association (NCAA) and the Big Sky Conference. Men’s sports offered are basketball, cross country, football, tennis, and indoor and outdoor track and field. Women’s sports offered are basketball, cross country, golf, soccer, softball, tennis, indoor and outdoor track and field, and volleyball. In addition, Idaho State University has extensive participation in a wide variety of club sports.

Athletic Eligibility

To participate in intercollegiate athletics, students must comply with the eligibility rules of the National Collegiate Athletic Association, the Big Sky Conference, and Idaho State University. Prospective students who have questions concerning eligibility should direct their questions to the Director of Athletic Compliance.

Bengal Pharmacy

Located at:
990 S 8th Avenue
(208)-282-3407

Mailing address:
921 S 8th Ave Stop 8311
Pocatello, ID 83209-8311
http://www.isu.edu/stuhlth/pharmacy.shtml

The Bengal Pharmacy provides low-cost prescription drugs as well as over-the-counter medications at reduced costs. Students may wish to transfer prescriptions from their hometown to the Bengal Pharmacy while they are attending Idaho State University. All Idaho State University students, both full and part-time, and their spouses may use the Bengal Pharmacy. A valid Bengal ID card is required to obtain services.

Campus Recreation Department

Campus Recreation Office
Recreation Center, Room 360
921 S 8th Ave Stop 8105
(208) 282-3516
http://www.isu.edu/camprec

The Campus Recreation Department is located in the Student Recreation Center south of Reed Gymnasium. The Recreation Center offers 100,000 sq. ft. of recreation space and houses indoor courts for tennis, racquetball, and basketball; weights, fitness machines, cardio areas and an indoor track. It also houses one of the northwest’s largest indoor climbing walls. An addition completed in the summer of 2010 offers an airy and open environment for a daily workout. Intramural programs are also available through Campus Recreation with as many as 30 activities to choose from. Please contact Campus Recreation at 282-4854 or on the web at http://www.isu.edu/camprec.

Career Center

418 Museum Building
921 S 8th Ave Stop 8108
(208) 282-2380
http://www.isu.edu/career

Stretching from your entry into the university on through graduation, the Career Center’s continuum of services will meet your career needs.

The Career Center offers a career and life planning course (COUN 1150), online career information and guidance systems, career counseling, and career testing to learn more about majors and occupations that fit with your personality and interests. We can assist you with internship opportunities, resumes and cover letters, interviewing, on-campus recruiting, graduate school preparation, and other job search strategies. We also offer job listings which include full-time opportunities to part-time and temporary positions. Throughout the year, several different career-related fairs are offered to help students find a broad range of positions and career information.

The Career Center primarily serves Idaho State University students and alumni, but also extends services to community members. Call us to see how we can help you meet your career needs.

Central Academic Advising

JoAnn Hertz, Director

Museum Building, Room 307
921 S 8th Ave Stop 8054
Pocatello ID 83209-8054
(208) 282-3277
http://www.isu.edu/advising/
advinfo@isu.edu

Central Academic Advising is a service designed to assist first-year and undecided students in making academic decisions. Central Academic Advising provides information about campus resources, guidance in developing courses schedules and degree plans, clarification of campus policies and procedures, and support in developing effective strategies for academic success.

Advisors also serve as a general resource for all Idaho State University students and faculty. Any student is welcome to contact Central Academic Advising for advising or referral. If students are unsure about whether an advisor has been assigned to them, they may contact Central Academic Advising for information.

Mandatory Advising

The Mandatory Advising program is required for academic degree seeking freshman students for the first two semesters of attendance at Idaho State University and for transfer students for the first semester of attendance. Students subject to mandatory advising must complete the Fundamentals of Advising and Registration (FAR) sessions that are coordinated by Central Academic Advising. Freshmen may contact any CAA office (http://www.isu.edu/advising/contact.shtml) to schedule a FAR session. The two freshman FAR sessions are available online at http://isu.edu/advising/nosearch/first_mad/; http://isu.edu/advising/nosearch/second_mad/. The transfer FAR session is only available online at http://isu.edu/advising/nosearch/transfer_mad/.
Mandatory Advising at Idaho State University is not intended to replace college or faculty advising.

C. W. HOG

Pond Student Union, First Floor  
(entrance below east end of Hypostyle)  
921 S 8th Ave Stop 8128  
(208) 282-3912

http://www.isu.edu/outdoor/cwhog.shtml

The Cooperative Wilderness Handicapped Outdoor Group, C. W. HOG, is located on the lower level of the Pond Student Union. The mission of Cooperative Wilderness Handicapped Outdoor Group, located on the Pocatello campus of Idaho State University, is to provide challenging outdoor adventures for individuals with disabilities, focusing on enhancing attitudes, increasing positive self-image, and supporting people of all ages and abilities. C. W. HOG also runs the new Universal Challenge Course, which is an amazing tool for team-building and fun. Academic credit may be granted for participation in activities which include weight training, seated aerobics, swimming, snow skiing, challenge course facilitation, water skiing and whitewater rafting.

Craft Shop

Pond Student Union, First Floor  
921 S 8th Ave Stop 8119  
(208) 282-3281

http://www.isu.edu/student/craftshop

The Craft Shop was established for students and the community to learn the necessary skills to create their own crafts and projects. Work centers include a wood shop, clay studio, and a darkroom. Other areas are set up for sewing, mat cutting for photos, dry mounting, paper cutting, and bicycle repair. There are experienced staff and student employees available to familiarize you with the facilities in the Craft Shop, and assist you in the design and creation of your next craft project. Non-credit classes are offered each semester in a variety of arts and crafts.

Disability Services

Karina Hensley, Acting Director

Rendezvous Building, Room 125  
921 S 8th Avenue Stop 8121  
Pocatello ID 83209-8121  
(208)282-3599

http://www.isu.edu/ada4isu/disabilityservices@isu.edu

The Disability Services office is located on the first floor of the Rendezvous building. Students with documented disabilities who qualify for accommodations provided by the university must self-identify to the Center in order to have accommodations provided. Information about accommodations is available in the Center and may be picked up in person or requested by telephone by calling (208) 282-3599.

Americans with Disabilities Compliance Statement

The Americans with Disabilities Act (ADA) provides protection from discrimination for individuals on the basis of disability. The ADA extends civil rights protection to people with disabilities who utilize the services provided by Idaho State University.

Idaho State University makes significant efforts to comply with requests for “reasonable accommodations,” to a course, policy, or physical barrier and will not discriminate in the recruitment, admission, or treatment of students or employees with disabilities.

In order for Disabilities Services to arrange accommodations, we request notification as early as possible so that your needs may be met. In addition to complying with the civil rights protections of the ADA, we provide access to assistive technology, a social community and workshops in how to be a more successful student.

Diversity Resource Center

Rendezvous Building, Room 129  
921 S 8th Ave Stop 8036  
Pocatello ID 83209-8036  
(208) 282-3142

http://www.isu.edu/drc/

The Center’s primary focus is to assist ethnic and international students and organizations. We seek both to enhance their experience at Idaho State University and to assist them in contributing to campus diversity and cultural competency. In addition, the Center develops, promotes, and delivers campus-wide activities directed toward enhancing multicultural understanding. The Center provides orientation sessions to American minority students to inform them about the University culture and expectations. The Center also houses, audio, video, and printed materials, both historical and current, related to diversity and multicultural issues.

Early Learning Center (ELC)

Kerry Williamson, Director

Early Learning Center, near the Pond Student Union Building, Pocatello  
921 S 8th Ave Stop 8316  
Pocatello, ID 83209-8316  
(208) 282-2769

Sam Bennion Student Union Building  
1784 Science Center Drive  
Idaho Falls, 83402  
(208) 282-7868

http://www.isu.edu/earlylc/

The Early Learning Center (ELC) has child care centers in Pocatello and Idaho Falls; both sites are IdahoSTARS STAR-rated facilities. The Pocatello Center cares for children six weeks through eleven years of age, while the Idaho Falls Center accepts children ages two through six. Services are provided to Idaho State University students, staff, faculty and alumni. In Idaho Falls, the privilege is extended to the same members of the University of Idaho community. Each center offers a developmentally appropriate curriculum, and USDA-approved breakfast, lunch and afternoon snack are provided.

The Pocatello program is housed in the Early Learning Center, located near the Pond Student Union Building. In Idaho Falls, the center is in the Sam Bennion Student Union Building.

Entertainment

Every week during the school year and the summer semester, the Student Activities Board (http://www.isu.edu/sab), Union Program Council (http://www.isu.edu/union/upc), and other student organizations (http://www.isu.edu/stdorg) host a wide variety of activities—movies, concerts, lectures, homecoming
events, holiday parties, theatrical plays, celebrations and more! In addition, the Pond Student Union (http://www.isu.edu/stunion) houses a Games Center with video games, billiards, and bowling. For the more relaxed crowd, television sets are located in the Bengal Café and the lower level of the Pond Student Union.

**International Programs and Services**

Museum Building, Room 319  
921 S 8th Ave Stop 8270  
(208) 282-2941  
http://www.isu.edu/ipo/

The office of International Programs and Services provides assistance to the international students, faculty, and scholars on campus as well as providing assistance to those interested in an international educational experience abroad. International student services include student orientation to the Idaho State University campus and Pocatello community, ongoing cross-cultural activities, and additional programs to help international students make the most of their time at Idaho State University.

Education-abroad services include assisting students in choosing a program, facilitating the credit transfer, and conducting a pre-departure orientation for those about to embark on an international experience. Services continue for those who have returned from an experience abroad.

This office supports all academic departments in bringing foreign faculty and visiting scholars to campus by assisting with the necessary paperwork for immigration and by offering support services to departments hosting visiting scholars.

Finally, this office coordinates communication among relevant offices on campus and works with faculty, administrators and the student organizations to provide ongoing support and guidance for international students, scholars, and faculty and those who have completed an international educational experience.

**Janet C. Anderson Gender Resource Center (GRC)**

Graveley Hall, North  
921 S 8th Ave Stop 8141  
Pocatello, ID 83209-8141  
(208) 282-2805  
http://www.isu.edu/andersoncenter/

The Janet C. Anderson Gender Resource Center (GRC) provides gender related education and programming at Idaho State University. We host film screenings, panels, art shows, lunchtime talks, focus groups, and the annual Gender and Sexuality in Everyday Life Conference. We also provide training for the ISU Green Dot bystander intervention program. See the schedule of events on our website for further details.

**Programs:** The ISU Green Dot Bystander Intervention Program is a nationally recognized leadership program that promotes the intolerance of violence on campus and in communities. Green Dot is based on training campus leaders to change the culture, “Every Day Everyone, No one has to do everything… Everyone has to do something!” The GRC has certified Green Dot trainers that provide education and training in Green Dot practices for ISU faculty, staff and students. Contact the GRC for information, training dates or to schedule a group training.

**Conferences:** The GRC and the ISU College of Arts & Letters hold the annual Gender & Sexuality in Everyday Life Conference each spring. The Gender and Sexuality in Everyday Life Conference focuses on how ideas and stereotypes concerning gender and sexuality roles shape and influence various aspects of our daily lives. By acknowledging these roles, we can begin to break down some of the barriers they constitute and move towards awareness and open dialogue. This year the conference will be presenting a great combination of local ISU faculty and student presenters, as well as guests from all over the country and internationally. The Gender and Sexuality in Everyday Life Conference offers a unique opportunity for ISU students of all levels, as well as interested community members, to experience a professional conference without having to travel or pay expensive registration fees.

**Resources:** The GRC library holds books, magazines, and pamphlets on a variety of gender-related topics. Materials may be borrowed for up to a month.

Additionally, we offer internship, practicum, and volunteer opportunities for Idaho State University students, faculty, and staff, as well as educational presentations on a variety of gender related topics.

The GRC is open to all members of the Idaho State University community regardless of gender identification, sexual orientation, ethnic or cultural background, religion, abilities, or age – everyone is welcome! Everyone who is a part of the GRC, whether staff, intern, or volunteer, strives to ensure that all GRC services and activities will be accessible and available, provided in safe and comfortable surroundings, of high quality, and of interest to the Idaho State University community. The opportunities at the GRC are limited only by the imaginations of those who choose to participate.

**Native American Student Services**

Idaho State University  
Native American Student Services  
921 S. 8th Avenue, Stop 8010  
Pocatello, Idaho 83209-8010  
http://www.isu.edu/drc/naas/index.shtml  
nass@isu.edu

Native American Student Services assists, advises, and supports Indigenous peoples in the attainment of their educational goals through academic advising, tutoring, cultural activities, utilization of internal and external resources and advocacy. It is our goal, through these services and others provided by Idaho State University, to promote retention and increase the graduation rates of our Native students.

**Outdoor Adventure Center**

Pond Student Union, First Floor  
(Lower northwest entrance off the Quad)  
921 S 8th Ave Stop 8128  
(208) 282-3912

Here is your ticket to adventure, fun and smiles! Students, faculty and staff are invited to participate in any or all of the Outdoor Adventure Center’s activities. The Center offers common adventure based outings and classes such as canoeing, climbing, cross-country skiing, kayaking, rafting, backpacking, caving, mountain biking, horseback riding, mountaineering, orienteering, and camping. Rental equipment is available for a variety of outdoor activities. The Center also teaches special topic workshops on topics such as avalanche awareness, backcountry survival and the Leave No Trace ethics.

The Outdoor Adventure Center hosts speakers and other special events like the Pocatello Pump (a climbing competition). The Center has an extensive resource center with books, magazines and maps. The Center manages the Portneuf Yurt Range Yurt System, consisting of five yurts available for use by winter enthusiasts.
Visit our website at http://www.isu.edu/outdoor

Religion

Religious activities among students are promoted by Pocatello churches. There are three religious centers on campus; the LDS Institute (https://studentview.lds.org/home.aspx/60320), St. John’s Community (http://bengalcatholics.com) (Roman Catholic), and the University Bible Church (http://www.universitybible.org).

Some of the religious organizations on campus include the Baptist Campus Ministries, Campus Crusade for Christ, Catholic Campus Ministry, Idaho State University Ecumenical Ministry (American Baptist, Christian-Disciples of Christ, Episcopal, United Methodist, United Presbyterian, and United Church of Christ-Congregational), Latter-Days Student Association, Lutheran Campus Ministry, Muslim Student Association, and Wesley Foundation.

Scheduling and Event Services

Pond Student Union, Hypostyle Room 299
921 S. 8th Ave., Stop 8354
(208) 282-2297

http://www.isu.edu/union/scheduling/

The Scheduling and Event Services Office assists students, the campus community, and university guests in planning and coordinating meetings, conferences, programs, and other special events to serve the educational development needs of Idaho State University. The office coordinates facility reservations and room set-up, including sound and audiovisual equipment needs.

Student Activities Board

Student Leadership and Involvement
Pond Student Union, First Floor
921 S 8th Ave Stop 8118
(208) 282-3451

http://www.isu.edu/sab/

The Student Activities Board is responsible for many of the entertainment and social programs on campus. This student committee has the responsibility of programming movies, dances, homecoming, musical entertainment, speakers, family programming, and many other activities. The Student Activities Board provides valuable leadership experience for its members, who learn to maintain and work within a budget, negotiate and fulfill contractual details, arrange publicity, work with committee members, and coordinate all details associated with event production.

Student Employment

For student employment possibilities, see the Career Center (p. 201). (208) 282-2380

Student Organizations & Greek Life

Involvement Center
Pond Student Union, First Floor
921 S 8th Ave Stop 8170
(208) 282-3451
http://www.isu.edu/stdorg

Organizations play an important role in the education of students at Idaho State University. We encourage a rich climate of diverse and active organizations.

At Idaho State University there are over one hundred fifty active clubs and organizations including academic, professional, cultural, religious, service, and special interest organizations, honor societies, sports clubs and fraternities and sororities.

Minimum requirements for membership in an organization are determined by the university. To be eligible to join a recognized university club or organization, a student must be a regularly enrolled, fee-paying student in good standing.

Other regulations and/or standards are set by the individual clubs or organizations.

All organizations are required to file a list of their officers, members and advisor with the Office of Student Organizations every year to remain current and eligible to receive the privileges of a recognized club or organization.

Regulations for fraternity and sorority recruitments are determined by the National Panhellenic Conference and the fraternity organizations.

Greek-letter fraternities and sororities at Idaho State University are coordinated by the Greek Council and Panhellenic Council. Currently, these are Alpha Xi Delta, Delta Sigma Phi, Kappa Sigma, and Sigma Sigma Sigma.

For further information, refer to the Student Organizations Directory or the Student Handbook, or contact the Student Organizations Office.

Student Success Center

Executive Director: Cynthia D. Hill, Ph.D.
Associate Director: James Yizar, Jr., Ed.D.

Pocatello:
Rendezvous Building, Room 323
(208) 282-3933
http://www.isu.edu/success/
ssc@isu.edu

Idaho Falls:
Center for Higher Education, Room 220
(208) 282-7925

Mailing address for both locations:
921 S 8th Ave Stop 8010
Pocatello ID 83209-8010

The Student Success Center coordinates a variety of resources for students. Academic Programs provides a foundation for learning and academic success, Central Academic Advising assists students in making academic decisions, and Disability Services assists students with documented disabilities. Native American Student Services advocates for and guides Native American students, TRiO Student Services prepares eligible students to enroll in and successfully complete university programs, and University Tutoring supports students enrolled in academic classes. The University Honors Program offers an enriched learning experience in an academic learning community.

Students’ Community Service Center (SCSC)

Student Leadership and Involvement Center
3rd Floor, Pond Student Union
921 S 8th Ave Stop 8170
(208) 282-4201

The Students’ Community Service Center (SCSC) organizes students, faculty, and staff to participate in meaningful community service on campus and in Southeast Idaho. The Center operates six core programs: Into the Streets, Bonner Leaders Program, Idaho State University Recycling, Alternative Spring Break,
Student Action Volunteers for the Environment (S.A.V.E.), and the Youth Mentoring Program. SCSC also serves as a campus contact for community agencies seeking volunteers for short- or long-term positions.

TRiO Student Services
Sari Byerly, Director

Museum Building, Room 434
921 S 8th Ave Stop 8345
Pocatello, ID 83209-8345
(208) 282-3242
http://www.isu.edu/trio/
trio@isu.edu

TRiO Student Services is a multifaceted, federally funded student assistance program geared to preparing eligible students to enroll in and graduate from post-secondary institutions. In order to participate in any of the TRiO programs, potential participants must meet the following criteria:

- Two-thirds of participants must meet federal low-income guidelines AND be first-generation college students.
- Remaining one-third of participants may be low-income OR first-generation college students OR have a documented physical, psychological, or learning disability.
- Students must have a need for program services.

Note: TRiO eligibility criteria will vary with individual programs.

Once students have been determined eligible, they may be provided a diversity of academic support services through one of the three TRiO programs including Educational Talent Search, Upward Bound, and Student Support Services.

PRE-COLLEGE PROGRAMS

Educational Talent Search (ETS) works with eligible program participants who are in the 9th through 12th grades and have potential to be successful in college. Students receive tutoring, assistance with study skills, organizational skills, test-taking strategies, and career exploration. They also attend field trips and cultural activities, and participate in community service projects and technology workshops. During their senior year they are also provided help with admission/financial aid forms and obtaining other information that will prepare them to enter the college of their choice. Participating target high schools are: Aberdeen, American Falls, Blackfoot, Bonneville, Burley, Century, Highland, Idaho Falls, Jerome, Minico, Pocatello, Shoshone-Bannock, Snake River, and Twin Falls High School.

Upward Bound (UB) assists eligible 9th through 12th grade students in preparing for the challenges of a post-secondary education. The program consists of an intense academic summer component and a follow-up component during the school year. The summer program is held on the Idaho State University campus. For eight weeks students are taught by certified high school teachers and receive credit toward high school graduation in most of the traditional academic disciplines including math, English, science, and foreign languages. Study skills, test-taking strategies, and career exploration are incorporated into the summer curriculum and additional academic support services such as tutoring are provided by tutors/mentors. The academic year follow-up program is geared to supporting the curricular and academic support activities students experience during the summer. Regular tutoring and other academic enhancement services are provided to students throughout the school year. Participating target high schools are: Aberdeen, American Falls, Blackfoot, Century, Highland, Pocatello, Shoshone-Bannock, and Snake River High School.

POST-SECONDARY PROGRAM

Student Support Services (SSS) is a post-secondary retention-oriented program that offers academic support services to eligible students. Advisors provide students assistance with course selection and scheduling along with personal and financial counseling. Other important services available to students include tutoring and supplemental instruction. Tutors and Supplemental Instruction Leaders are model students who have excelled in their academic disciplines. The SSS program’s goal is to help students be successful, both academically and socially, while attending Idaho State University, by providing strong support to help students achieve their educational and career objectives leading to their completion of a baccalaureate degree and pursuit of graduate school educational opportunities.

University Counseling and Testing Services
Pocatello:
Graveley Hall, Top Floor, South Wing
921 S 8th Ave Stop 8027
(208) 282-2130

Idaho Falls:
1784 Science Center Drive
Room 223 Bennion SUB Stop 8150
(208) 282-7750
http://www.isu.edu/ctc/

Counseling Service
The staff of the University Counseling and Testing Service are available to assist students who are encountering personal, social, and emotional difficulties while enrolled at Idaho State University. During an initial assessment process, the student and counselor discuss the student’s needs and concerns and decide upon an appropriate counseling plan. Individual, couples, and group counseling are available. When appropriate, the counselor will assist the student with a referral. We can usually counsel students with concerns such as anxiety, depression, low self esteem, lack of motivation, eating problems, stress, grief, and interpersonal relations including couple and family problems.

Personal counseling is free and confidentiality is maintained within the ethical and legal guidelines of the American Counseling Association, the American Psychological Association and the State of Idaho. Staff are licensed by the State of Idaho as professional counselors or psychologists. Masters’ and Doctoral trainees (interns) are under the direct supervision of licensed staff.

Consultation and Crisis Intervention Services
Whenever any member of the university community has an immediate mental health concern for their self or another person, they may contact our office. One staff member is available each day during normal working hours for emergencies and consultations. After normal working hours, emergency response is initiated by contacting Campus Security and/or 911. Counseling staff may coordinate and assist with follow-up to such emergencies.

In addition to crisis intervention and follow-up services, counseling service staff are available for a variety of other consultations. The most common consultations include debriefing with individuals and departments who have had a critical incident, assisting individuals and departments in working with students with difficulties, and providing support and follow-up to individuals and departments undergoing significant change.
Outreach Services

University Counseling and Testing Service staff provide a wide variety of outreach services including: teaching academic courses; leadership development programs; workshops on communication skills, mindfulness, anxiety, anger, and stress management; guest lectures on a variety of topics; and information on such concerns as depression, anxiety, eating disorders and sexual assault. Workshops, lectures, and courses can be designed to fit the needs of specific individuals, groups, or departments.

Testing Service

The University Counseling and Testing Service actively pursues the opportunity to serve the university and the community as a full service testing center. In addition to serving the university’s needs for course placement testing, proctoring on-line course exams, and special requests for proctored exams, we currently serve the larger community as a contract test site for: PROMETRIC, ACT, Miller Analogies Test (MAT), GED, Pearson Vue, Kryterion, and CLEP. For current information on the cost and registration process for any of the over 500 examinations available through our center, please check out our website: http://www.isu.edu/ctc/.

University Health Center

University Health Center
921 S. 8th Ave. Stop 8311
(208) 282-2330
http://www.isu.edu/stuhlthh/

All students are eligible to see a care provided at the University Health Center at no charge for the basic office visit. Almost all insurances are accepted for other charges.

The University Health Center provides the entire range of medical office care as is provided at a hometown doctor’s office. This includes everything from colds and flu to treatment of high blood pressure and diabetes. We care for broken bones, lacerations, abscesses, and other urgent care problems. Preventative health services such as immunizations, healthy lifestyle counseling, and birth control are areas of particular interest.

The University Health Center bills private insurance when billable services such as laboratory tests, X-ray studies, special procedures, etc., are performed. The University Health Center does its best to see people on the same day they are ill. Same day appointments are available daily. A valid Bengal ID card is required to obtain services.

The University Health Center is located at 990 Cesar Chavez Avenue—across from Graveley Hall.

University Honors Program

Sherri Dienstfrey-Swanson, Ph.D., Director
Rendezvous Building, Room 323
921 S 8th Ave Stop 8010
Pocatello ID 83209-8010
Office: (208) 282-3662
honors@isu.edu

The University Honors Program is an academic learning community that offers a broad range of enriched educational experiences, typically found at a small private college, for bright, talented, and ambitious undergraduate students. The main goals of the program are:

1. To provide a challenging and imaginative curriculum;
2. To prepare students for a post-graduate education through seminars, individual research, and one-on-one interaction with faculty; and
3. To enrich the life of all honors students by fostering a spirit of ongoing inquiry and a love of learning.

The University Honors Program offers interdisciplinary, theme-driven course sequences in the humanities, social sciences, and natural sciences. They are designed for students who are motivated to develop their critical and creative thinking in a more personalized atmosphere than may be expected in normal lower division courses. These courses are offered in small classes (25 maximum enrollment) by interested faculty, deal with broad and/or interdisciplinary issues, and confront some aspect of the human condition. Innovative teaching and assignments are encouraged, and interaction with faculty and class members is lively. Please check www.isu.edu/honors for this year’s core curriculum themes and additional information. Questions about the University Honors Program and courses may be directed to the address above.

The University Honors Program Curriculum fulfills many of the General Education Requirements.

University Tutoring

Haydie LeCorbeiller, D.A., Director
Rendezvous Building, Room 323
921 S 8th Ave Stop 8010
Pocatello ID 83209-8010
(208) 282-4823
http://www.isu.edu/success/ssc@isu.edu

Content Area Tutoring

The Content Area Tutoring (CAT) Program provides small-group tutoring in all academic areas except writing and math, which are handled through the Writing and Math Centers. Students may request tutoring in courses from anthropology to zoology at the CAT offices in Pocatello’s Rendezvous Center (REND 323, 282-3662) or Idaho Falls (CHE 220, 282-7925).

A separate tutoring system, based in the Roy F. Christensen Building, focuses on the tutoring needs of College of Technology students.

Math Center

The Math Center provides drop-in tutoring services to help students on the Pocatello and Idaho Falls campuses understand concepts in undergraduate math and math-related courses. Tutors ask questions to clarify what students know and how the concept has been taught to them. They help students see what they have been doing incorrectly, and they work other examples with students to suggest approaches to the problems that students are doing.

Writing Center

The Writing Center provides individualized tutoring in Pocatello, Idaho Falls, and online to help students improve the quality of their writing for undergraduate and graduate courses in all subjects. Tutors are available by appointment to work with students at any stage of the writing process, from generating ideas to revising full drafts. They assist with organization and development of ideas for particular audiences and purposes, as well as with issues of punctuation and usage.
Veteran Student Services Center

“Your Veteran and Military Connection at Idaho State University”

Todd D. Johnson, M.A., Director

Student Union Building
3rd Floor (near the Salmon River Suites)
921 S. 8th Ave., Stop 8095
Pocatello, ID 83209-8095
(208) 282-4245
http://www.isu.edu/veterans/

Veterans’ Crisis Line (http://www.veteranscrisisline.net/ForVeterans.aspx)

The Veteran Student Services Center aims to make ISU one of the most “veteran-friendly” campuses in the United States by simplifying access to existing services, addressing the needs of the individual veteran, and supporting our growing community of student veterans and service members. As a veteran-centered transition and support program, our mission is to provide first-class service, guidance, and advocacy for ISU student veterans, benefit-eligible dependent students, and their family members through strong campus and community partnerships.

Professional staff and trained student advocates attend to student’s needs; services include veteran/military-friendly study and computing areas, assistance with admissions, G.I. Bill benefits, academic advising, disability and learning resources, financial assistance and scholarships, career preparation, and a variety of other veteran-specific support and academic resources. The Center also works closely with the Student Veterans of America - Armed Forces Club, a student-run organization serving the veteran community, which has chapters on both the Pocatello and Idaho Falls campuses. For more information, contact the Veteran Student Services Center at (208) 282-4245.

Veterans’ Benefits

For any information concerning veterans’ educational benefits, rights, and opportunities, contact:

ISU Veteran Certifying Official
Office of the Registrar
921 S 8th Ave Stop 8196
Pocatello, ID 83209-8196
(208) 282-2676
vco@isu.edu
http://www.isu.edu/areg/veterans/

Wellness Center

(208) 282-2117
http://www.isu.edu/wellness/

Students at Idaho State University have the unique opportunity of having a Wellness Center on campus. The mission of the Wellness Center is to promote a holistic approach to health through quality health promotion and education programs and public service to all students at Idaho State University. We are committed to providing opportunities that facilitate and support personal growth in the multiple dimensions of health: physical, mental, emotional, spiritual, social, and environmental. A wide variety of aerobic classes is offered: aerobics, aquacize, step aerobics, yoga, cardiotone, and toning. All classes are held at Idaho State University Reed Gym.

The Wellness Center also offers fitness assessments to Idaho State University students. This includes cardiovascular endurance, body composition, blood pressure, flexibility, abdominal strength and health risk appraisal. Other services provided by the Wellness Center for students include personal training, nutrition counseling, smoking cessation, and CPR/First Aid Training. These are by appointment.

For further information on Wellness Center activities, please call the Wellness Center at (208) 282-2117 or send email to: wellness@isu.edu. Office hours during the Fall and Spring academic semesters are 8 a.m. - 5 p.m., Monday through Friday. Office hours during the Summer term are 7:30 a.m. through 4 p.m., Monday through Friday.

Athletics

Holt Arena
http://www.isubengals.com/

The Athletic Department at Idaho State University is a Division I (FCS) member of the National Collegiate Athletic Association (NCAA) and the Big Sky Conference. Men’s sports offered are basketball, cross country, football, tennis, and indoor and outdoor track and field. Women’s sports offered are basketball, cross country, golf, soccer, softball, tennis, indoor and outdoor track and field, and volleyball. In addition, Idaho State University has extensive participation in a wide variety of club sports.

Athletic Eligibility

To participate in intercollegiate athletics, students must comply with the eligibility rules of the National Collegiate Athletic Association, the Big Sky Conference, and Idaho State University. Prospective students who have questions concerning eligibility should direct their questions to the Director of Athletic Compliance.

Intercollegiate Athletics-Directors and Coaches

Tingey, Jeffrey, Athletic Director

Alexander, Geoff, Assistant Coach, Men's Basketball

Beall, Stephanie, Assistant Coach, Soccer

Campbell, Robert M., Head Coach for Strength & Conditioning

Collins, Jay, Assistant Coach/Recruiting Coordinator, Men’s Basketball

Cooper, Roger, Assistant Coach/Co-Defensive Coordinator, Football

Cross, Sheldon, Assistant Coach, Football

Evans, William, Head Coach, Men’s Basketball
Fifita, Steven, Assistant Coach, Football
Finch, Daryl, Assistant Athletic Trainer
Fisher, Keisha, Assistant Coach, Volleyball
Franks, Stanley, Assistant Coach, Football
Geohegan, Rachel, Assistant Athletic Trainer
Gibson, Allison, R., Head Coach, Women’s Soccer
Goeltz, Robert, Head Coach, Tennis
Graziano, Nancy, Associate Athletic Director for Student Support Services and Senior Woman Administrator
Henriksen, Cecilie, Assistant Coach, Soccer
Hooper, Kellie, Head Coach, Golf
Janssen, Brian, Head Coach, Cross Country
Johnson, Ryan, Assistant Coach, Women's Basketball
Kramer, James, Assistant Athletic Director for Financial Services
Kramer, Michael, Head Coach, Football
Lacey, Michael, Athletic Academic Advisor
Miller, Drew, Assistant Coach, Football
Moore, Jessica, Assistant Coach, Softball
Nielsen, Dave, Head Coach, Track and Field
Obray, Gregory R, Assistant Athletic Trainer
Payne, Brandon, Athletic Sports Trainer
Pleasant, Phillip, Academic Advisor
Robertson, Holly, Assistant Coach, Women's Basketball
Schaack, Steve, Assistant Athletic Director for Media Relations
Sobolewski, Seton, Head Coach, Women’s Basketball
Steiner, Tom, Assistant Athletic Director for Development and Major Gifts
Steurt, Matthew C., Assistant Athletic Director for Academics
Sticki, Misty D., Head Coach, Cheerleading
Stutzman, Craig, Head Coach, Football
Teichert, Chad, Assistant Coach, Football
Toone, Spencer, Co-Defensive Coordinator, Football
Troxell, Matthew, Assistant Coach/Recruiting Coordinator, Football
Trujillo, Michael, Assistant Coach, Women’s Basketball
Videbeck, Andrea, Assistant Coach, Women's Basketball
Walker, Zachary, Athletic Compliance
Walsh, Timothy, Assistant Coach, Men’s Basketball
Ward, Andy, Assistant Coach, Men’s Basketball
Wotowey, Jodi, Head Athletic Trainer
Wright, Julia, Head Coach, Softball
Yizar, James ‘Bird’, Assistant Athletic Director for Student Success

Academic Calendar

Fall Semester 2015

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 7-10</td>
<td>Fall 2015 Early Registration - Freshmen</td>
</tr>
<tr>
<td>April 13</td>
<td>Class level registration begins for Fall 2015</td>
</tr>
<tr>
<td>August 24</td>
<td>Fall classes begin</td>
</tr>
<tr>
<td>August 28</td>
<td>Last day to add/drop early 8-week courses</td>
</tr>
<tr>
<td>September 4</td>
<td>Last day to register, add/drop, change section, or audit full semester courses</td>
</tr>
<tr>
<td>September 4</td>
<td>Last day to submit Idaho Residency Determination Worksheet with documentation to Office of the Registrar to declare Idaho residency</td>
</tr>
<tr>
<td>September 7</td>
<td>Labor Day holiday (no classes)</td>
</tr>
<tr>
<td>September 25</td>
<td>Last day to WITHDRAW from early 8-week courses</td>
</tr>
<tr>
<td>October 5</td>
<td>Early 8-week final grading/Full term midterm grading opens</td>
</tr>
<tr>
<td>October 12-16</td>
<td>Mid-term week</td>
</tr>
<tr>
<td>October 16</td>
<td>Seniors: Last day to file application for December graduation</td>
</tr>
<tr>
<td>October 19</td>
<td>Late 8-week courses begin</td>
</tr>
<tr>
<td>October 20</td>
<td>Early 8-week final grading/Full term midterm grading closes at 5:00 pm</td>
</tr>
</tbody>
</table>

October 23 Last day to add/drop late 8-week courses
October 26 Spring 2016 Class Schedule viewable online (subject to change)
October 30 Last day to WITHDRAW from full semester courses
November 9 Class level registration begins for Spring 2016
November 20 Last day to WITHDRAW from late 8-week courses
November 23-27 Fall recess (no classes -- Thanksgiving Break)
December 7 Late 8-week and full semester final grading opens
December 7-11 Closed week
December 14 Summer 2016 Class Schedule viewable online (subject to change)
December 14-18 FINAL Examinations
December 22 Late 8-week and full semester final grading closes at 5:00 pm

Spring Semester 2016

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 9</td>
<td>Spring 2016 Class Level Registration Begins</td>
</tr>
<tr>
<td>January 11</td>
<td>Spring classes begin</td>
</tr>
<tr>
<td>January 15</td>
<td>Last day to add/drop early 8-week courses</td>
</tr>
</tbody>
</table>
located on 16.8 acres, high on a hill on the perimeter of the campus, adjacent to

The L. E. and Thelma E. Stephens Performing Arts Center, completed in 2004, is

studying, social and academic heart for the campus.

study and relaxation spaces. This expansive facility creates a new living, learning,

customers, as well as a 120 seat drop-in computer lab and numerous styles of

planetarium, a core food service facility to serve housing students and retail

facility located in the center of campus. It contains 82 student suites which house

All seven colleges are housed in the various campus buildings ranging from

university commuter bus system brings students to the campus from over 70

spring semesters. Riding a bicycle is also a popular way to get around campus.

For convenience, a free on-campus shuttle bus is available during the fall and

programs already leasing space in Meridian and the Treasure Valley.

Opened in August 2009, the 101,000 square foot ISU-Meridian Health Sciences

Opened in October 2008, the Center for Advanced Energy Studies or “CAES”

Building is a world-class research facility with offices and laboratories for

collaborative projects between Idaho State University, Boise State University, the

University of Idaho, and Idaho National Laboratory scientists and engineers. It

is certified as a LEED Gold building and located on our Idaho Falls campus. It

is a 55,000 square foot, $18 million facility and includes a fluids lab, advanced

materials lab, imaging suite, radio chemistry and chemistry labs, systems

modeling, power wall, and visualization cave.

Opened in August 2009, the 101,000 square foot ISU-Meridian Health Sciences Center includes programs with an emphasis on health sciences, consolidating

programs already leasing space in Meridian and the Treasure Valley.

Physical Facilities and University Services

The Idaho State University campus encompasses over 1,100 acres of property. Its

105 buildings are surrounded by 180 acres of attractively maintained landscape. There are over 5,600 parking spaces available throughout the campus.

For convenience, a free on-campus shuttle bus is available during the fall and spring semesters. Riding a bicycle is also a popular way to get around campus. The campus is located just off of the interstate, making access very easy. The university commuter bus system brings students to the campus from over 70 miles away from Idaho Falls, neighboring towns, and areas in between.

All seven colleges are housed in the various campus buildings ranging from the oldest, Frazier Hall (built in 1925), to the newest, the Rendezvous Building (completed in 2008). The Rendezvous is a new 256,000 square foot, multi-use facility located in the center of campus. It contains 82 student suites which house 300 students, a 40 classroom academic building with a 250 seat lecture hall/future planetarium, a core food service facility to serve housing students and retail customers, as well as a 120 seat drop-in computer lab and numerous styles of study and relaxation spaces. This expansive facility creates a new living, learning, studying, social and academic heart for the campus.

The L. E. and Thelma E. Stephens Performing Arts Center, completed in 2004, is located on 16.8 acres, high on a hill on the perimeter of the campus, adjacent to

Interstate 15. This 123,000 square foot facility includes a 1,200 seat concert hall, an elegant rotunda, a 446 seat thrust theatre, and a 200 seat black box theatre. The three-level concert hall, the Center’s largest venue, incorporates state-of-the-art design and technology to optimize sound. The Center also includes classroom space, offices for the Department of Theatre and Dance, and a conference room. The facility and the various, wonderful performances it presents are a must-see part of campus.

Summer Semester 2016

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 8</td>
<td>Summer 2016 Registration Begins</td>
</tr>
<tr>
<td>May 16</td>
<td>Early-4, Early-6, Early-8 and full term courses start</td>
</tr>
<tr>
<td>May 20</td>
<td>Last day to add/drop Early-4, Early-6, Early-8 classes</td>
</tr>
<tr>
<td>May 27</td>
<td>Last day to add/drop Full term classes</td>
</tr>
<tr>
<td>May 27</td>
<td>Last day to WITHDRAW from Early-4, Early-6 and Early-8 classes</td>
</tr>
<tr>
<td>May 27</td>
<td>Early-4 final grading open</td>
</tr>
<tr>
<td>May 30</td>
<td>Memorial Day (No classes)</td>
</tr>
<tr>
<td>June 13</td>
<td>Middle 4 and Late 8 courses start</td>
</tr>
<tr>
<td>June 13</td>
<td>Early-6 final grading open</td>
</tr>
<tr>
<td>June 14</td>
<td>Early-4 final grading closes at 4:30 pm</td>
</tr>
<tr>
<td>June 17</td>
<td>Last day to add/drop Middle 4 and Late 8 classes</td>
</tr>
<tr>
<td>June 24</td>
<td>Last day to WITHDRAW from Middle 4, Late 8 and Full term courses</td>
</tr>
<tr>
<td>June 27</td>
<td>Late 6 classes start</td>
</tr>
<tr>
<td>June 27</td>
<td>Early-8 and Middle-4 final grading opens</td>
</tr>
<tr>
<td>July 1</td>
<td>Last day to add/drop Late 6 classes</td>
</tr>
<tr>
<td>July 4</td>
<td>Independence Day (No classes)</td>
</tr>
<tr>
<td>July 8</td>
<td>Last day to WITHDRAW from Late 6 classes</td>
</tr>
<tr>
<td>July 11</td>
<td>Late 4 classes begin</td>
</tr>
<tr>
<td>July 12</td>
<td>Early-8 and Middle-4 final grading closes at 4:30 pm</td>
</tr>
<tr>
<td>July 15</td>
<td>Last day to add/drop Late 4 classes</td>
</tr>
<tr>
<td>July 22</td>
<td>Last day to WITHDRAW from Late 4 classes</td>
</tr>
<tr>
<td>July 25</td>
<td>Full term, Late-8, Late-6 and Late-4 final grading opens</td>
</tr>
<tr>
<td>August 9</td>
<td>Full term, Late-8, Late-6 and Late-4 final grading closes at 4:30 pm</td>
</tr>
</tbody>
</table>
Remodeling and updates of the campus are an ongoing process. All of the campus buildings are accessible to the disabled.

Occupied in 1971, Holt Arena was the first enclosed football stadium on any university campus. The arena is used for football and basketball games, indoor track meets, and various trade and garden shows, as well as championship rodeos.

Remodeled in 2002, Reed Gymnasium provides a unique and exciting venue for basketball games, volleyball, and other sporting events. A world-class climbing wall is located in the Recreation Center along with racquetball courts, a running track, weight rooms and other sports equipment as well as an Olympic-size swimming pool. The Recreation Center was expanded in 1996. A new $7.7 million expansion, completed in April 2010, includes weight, cardio-training and fitness areas, dance/multipurpose rooms, offices, and lobby.

A new NCAA Women’s Softball Field is under construction and will provide a competition-level practice and performance field for the ISU women’s softball team.

Historic Davis Field provides a well-maintained, multi-use field and outdoor running track where Idaho State University hosts a variety of events including soccer and track tournaments and Special Olympics. Bartz Field is a 30 acre, dog-friendly field used for events such as softball, archery, sledding, cross country, golf, and rugby. The Pocatello Greenway passes through the campus above Davis Field, connecting with 13 miles of trail through the Portneuf Valley.

Outdoor recreation opportunities abound on the many acres of developed and undeveloped campus grounds. A disc golf course, challenging cross-country track, vertical challenge tower, bike trails, jogging trails, hiking areas, and walking paths are part of the Idaho State University campus. Softball, track, ultimate frisbee, soccer, and rugby are all options for the active student. Summer and winter sports, including rock climbing, skiing and snowboarding, are also available only minutes away in the beautiful mountains surrounding the city. Just 35 miles away, located in the mountainous valley of the Portneuf River on the old route of the Oregon Trail and California Trail, the city of Lava Hot Springs is a popular resort location, noted for its numerous hot springs amenable to bathing, an Olympic-size swimming pool, and unique shops and restaurants.

The ISU-Idaho Falls campus provides modern classroom facilities and a student union. The university also has many outreach centers available to assist students in Southeast Idaho, Twin Falls, and Meridian.

**Bookstore**

The Idaho State University Bookstore, located in the lower level of the Pond Student Union Building, carries a large selection of new and used textbooks, software, office supplies, Idaho State University clothing, and general interest books.

Regular Bookstore hours are 8 a.m. - 5 p.m. Monday through Friday, and 10 a.m. - 2 p.m. Saturdays, with extended hours during registration. Call the Bookstore at (208) 282-3237 (in Pocatello) or 1-800-688-4781 (outside Pocatello) for more information.

Textbooks may be purchased online at http://www.bkstr.com/idahostatepocatellostore/home for classes out of the Pocatello campus, and http://www.bkstr.com/idahostatetore/home for classes out of the Idaho Falls campus.

The Bookstore maintains a branch office in Idaho Falls (Idaho State University-Idaho Falls, (208) 282-7940).

Students should purchase textbooks as early as possible to ensure good selection. A full refund will be paid for unmarked books, accompanied by the original sales slip, that are returned by the 7th day from the start of Fall or Spring semester. Books that are marked or damaged will be refunded at the used book price.

**Idaho Museum of Natural History**

http://imnh.isu.edu/home/

The Idaho Museum of Natural History was founded by legislative proclamation in 1977. At that time, the museum received its state-mandated mission to enhance in the citizens of Idaho and visitors an understanding of and delight in Idaho’s natural and cultural heritage. The museum has four divisions: Anthropology, Earth Science, Life Science, and Public Programs. Each of the first three divisions is headed by a Research Curator, with other affiliate curators and collections managers. Significant collections include the Anthropology ethnographic collections, the Earl R. Swanson Archaeological Repository, extensive collections in vertebrate and invertebrate paleontology, and the Ray J. Davis Herbarium. The museum houses the Idaho Virtualization Laboratory and the Center for Archaeology, Materials, and Applied Spectroscopy (CAMAS). Affiliated research institutes include the Anthropology ethnographic collections, the Earl R. Swanson Archaeological Repository, extensive collections in vertebrate and invertebrate paleontology, and the Ray J. Davis Herbarium. The museum houses the Idaho Virtualization Laboratory and the Center for Archaeology, Materials, and Applied Spectroscopy (CAMAS).

Curators in Anthropology, Earth Science and Life Science lead national and international research. Our active research profile supports acquisition and use of collections for all areas of natural history research and education. ISU faculty and students have access to museum collections for instruction, training, and graduate theses and dissertations.

Our Public Programs Division develops and implements programs and exhibitions on a wide range of science topics, emphasizing current museum research and environmental and ecological themes. These programs are both university level and for K-12 education.

The museum offers undergraduate and graduate students educational credits under the museum subject code (MUSE) and through courses in Anthropology, Biology, Education, Geo-sciences, History, and other affiliated Idaho State University departments. See Idaho Museum of Natural History course descriptions (http://coursecat.isu.edu/undergraduate/allcourses/muse) in the All Courses section of the catalog.

**Information Technology Services**

Idaho State University’s Information Technology Services (ITS) is dedicated to meeting the computing needs of ISU’s students. ITS maintains eight full service student computer labs in Pocatello, three in Idaho Falls, two in Meridian, and one in Twin Falls. They also provide kiosk computers in numerous locations throughout campus to provide fast and convenient stand-up email and internet access. And, finally, ITS provides wireless access for students on campus who have their own mobile devices.

Many individual departments operate additional computer labs (partially supported by ITS) which often feature specialized discipline-specific software. Use of the general ITS computer labs, kiosks, wireless network and most departmental labs require the purchase of an ISU Computer Account (currently $35 per semester and $30 for summer). Up to $25 worth of black and white printing is included with a computer account. Some courses require computer accounts.

New computer accounts may be purchased at the IT Service Desk in Pocatello (BA-B9 and Rendezvous Computer Lab), and in the ISU Idaho Falls, Twin Falls, and Meridian computer labs. Students who currently have a computer account can renew their account online or in person.
The IT Service Desk, 208-282-HELP (4357) or help@isu.edu, provides technology support to students accessing IT services, such as Moodle, BengalWeb, or e-mail. Students may also visit our IT Service Desk locations wherever computer accounts are sold (locations listed above).

BengalWeb (ISU’s electronic portal) provides one-stop, personalized access to all of ISU’s electronic resources. Students can use it to register for classes, print out class schedules, find book lists, check on financial aid, pay for classes and fees, and check their grades. It also provides links to campus news, advising, housing, the library, movie schedules, and much more. All admitted students have access to BengalWeb at http://BengalWeb.isu.edu.

All ISU students are automatically given a free ISU email account for life. ISU uses this account for all official communication, from waitlist notifications to pending deadlines. Students should check their ISU email often or have it forwarded to their preferred email address. Students who need help accessing BengalWeb or their ISU email should contact the ISU Service Desk at (208) 282-HELP (4357).

Student Unions

Idaho State University offers student union services in three locations: the Earl R. Pond Student Union and Hypostyle (Pocatello lower campus), the Samuel H. Bennion Student Union (Idaho Falls), and Union facilities in the new Rendezvous Center (Pocatello mid campus). These locations serve the campus as focal points for experiential education and provide student opportunities for campus employment.

The Earl R. Pond Student Union provides students with: lounges, check cashing service, automatic teller machine, food service, bowling, billiards, movie theater, computer lab, copy service, ballroom, barber shop, bookstore, meeting rooms, guest rooms, and much more. This facility is in constant use by students, organizations, university departments, and community groups.

The Pond Student Union and the Union Hypostyle house offices for the Associated Students of Idaho State University (ASISU); Student Affairs, including the Vice President for Student Affairs, Associate Dean of Students (University Judicial Officer), The Bengal student newspaper, the Outdoor Adventure Center (comprised of C.W. HOG, Outdoor Program, and Outdoor Adventure Rentals), Craft Shop, Idaho State University Mail Center, KJSU-FM Public Radio, New Student Orientation, Scheduling and Event Services, Student Activities Board (SAB), Student Organizations and Greek Life, Union Program Council (UPC), University Food Services, an ISU Credit Union branch, and the Bengal Card Services office.

The Samuel H. Bennion Student Union provides students with: lounges, automatic teller machine, food service areas, computer lab, multi-purpose room, bookstore, meeting rooms, the Student Health Center, TRIO Student Services, Parking and Bengal Card Services, Counseling, Testing, Career Services, Early Learning Center, and the offices of Student Services.

The Rendezvous Center brings additional student lounging areas, automatic teller machine, food service areas, computer lab, meetings rooms, and convenience store.

University Housing

http://www.isu.edu/housing
mailto:reslife@isu.edu
208-282-2120
745 S. 5th Avenue, Stop 8083
Pocatello, ID 83209-8083

According to the American Council on Education, students who live on campus are more likely to succeed academically than students who live off campus. This includes earning higher grades and being more likely to complete a college degree. University Housing is here to contribute to your success at Idaho State University.

Housing Options

University Housing offers traditional residence halls and suites, as well as apartments. Traditional age first-year students are eligible to live in either the residence halls or the suites; however, returning students have priority and availability in the suites can be limited. On-campus apartments are available for sophomores and above, married students, and students with children. Floor plans and photos, as well as pricing, can be found at http://www.isu.edu/housing. The housing fee covers all utilities and basic cable television. On-campus housing is within the university’s wireless internet network, but beware that use of internet service requires an ISU computer account, for which a fee is charged per semester.

Food Service

University food service is required for first-year students living in the residence halls, and is an option for other students, regardless of whether they live on campus.

To Apply

Applying for University Housing is separate from application to Idaho State University. Housing applications are completed and submitted online. To apply, simply go to the Housing website (http://www.isu.edu/housing) and then click the “Apply Now” link. Then select either the residence hall or apartment application. If you have questions please email reslife@isu.edu.

University Library

The University Library, named for its past director, Eli M. Oboler, contains major collections of books, periodicals, electronic resources, maps, microforms, and government publications and provides a full range of services to students, faculty, and staff. The library collection of 700,377 book and serial volumes and its 4,576 active journal subscriptions in all formats are accessible through its automated catalog and circulation system, or it’s A-Z Journal List, both available through the library web page at http://www.isu.edu/library/. In addition, the library provides access to numerous databases, many of them with full-text content providing access to an additional 63,711 journals. The University Library has been a depository for federal publications since 1908 and for state of Idaho publications since 1972. The government publications collection contains over 445,024 printed items and approximately 1,964,868 items published in microform.

General reference service is provided on the first floor, where librarians are available to assist patrons in the use of over 89 databases and other reference resources. Library instruction is available to classes and student groups and is tailored to address students’ specific needs, from general library orientation to subject-specific bibliographic research. In addition to supplying informational materials from its own collections, the library provides an inter-library loan service, equipped to locate and deliver books and periodical articles from other libraries’ holdings. Using online electronic ordering and transmission, as well as postal services, the inter-library loan service fills most requests within a week, but students should allow a two-week turnaround time.

The Idaho Health Sciences Library, a department of the Eli M. Oboler Library, supports the health sciences information needs of the university and the Idaho health care community. It also provides specialized health science reference, research and instruction services. The Arthur P. Oliver Law Library, located on the first floor of the Eli M. Oboler Library, houses more than 13,000 law books.
An excellent reference resource for students, faculty, and staff, it is supplemented with legal databases.

**Idaho Falls**

The University Library Center at Idaho State University-Idaho Falls provides reference services, a limited reference collection, and a study area for Idaho State University students. Also available are public access workstations on which students and faculty are able to access most of the information databases available to students at the main campus. With the assistance of trained staff, students are able to request the delivery of books and journal articles from the University Library.

**Twin Falls and Lewiston**

The Oboler Library has agreements with the College of Southern Idaho and at Lewis-Clark State College. These agreements ensure strong library support for Idaho State University students in the Twin Falls and the Lewiston areas. Under these agreements, students are able to access the two libraries and check out materials. They also receive full reference, instruction, inter-library loan, and database searching services. On-line access is available to Idaho State University Library databases and the catalog.

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**Idaho Museum of Natural History**

The Idaho Museum of Natural History was founded by legislative proclamation in 1977. At that time, the Museum received its state-mandated mission to enhance in the citizens of Idaho and visitors an understanding of and delight in Idaho’s natural and cultural heritage. The Museum has four divisions: Anthropology, Earth Science, Life Science, and Public Programs. Each of the first three divisions is headed by a Research Curator, with other affiliate curators and collections managers. Significant collections include the Anthropology ethnographic collections, the Earl R. Swanson Archaeological Repository, extensive collections in vertebrate and invertebrate paleontology, and the Ray J. Davis Herbarium. The Museum houses the Idaho Virtualization Laboratory and the Center for Archaeology, Materials, and Applied Spectroscopy (CAMAS). Affiliated research institutes include the GIS Training and Research Center, the Informatics Research Institute, and the Don Crabtree Experimental Archaeology Lab.

Curators in Anthropology, Earth Science and Life Science lead national and international research. Our active research profile supports acquisition and use of collections for all areas of natural history research and education. ISU faculty and students have access to Museum collections for instruction, training, and graduate theses and dissertations.

Our Public Programs Division develops and implements programs and exhibitions on a wide range of science topics, emphasizing current Museum research and environmental and ecological themes. These programs are both university level and for K-12 education.

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For more information, please visit the Idaho Museum of Natural History's website at: http://imnh.isu.edu/.

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**Institutes**

**Biomedical Research Institute (IBRI)**

Director: Dr. Shawn Bearden

Established in 2005 to increase the collaboration, efficiency and focus of the University’s biomedical research activities, the Biomedical Research Institute is a network of investigators and resources focused on research as a means to improve human health.

The Institute is an interdisciplinary biomedical research environment where scientists, engineers, and health professionals can interact synergistically, without the restrictions of traditional discipline barriers. The IBRI seeks to help every member reach their potential in making significant contributions to improving human health through discovery and dissemination of new knowledge, methods, and technologies.

Our members include academic investigators, clinician scientists, and supporting personnel at ISU and partnering organizations.

**Informatics Research Institute (IRI)**

Director and Professor: Schou
Associate Director and Professor: Lohse
Associate Professors: Cady, Sammons, J. Strickland

http://www.iri.isu.edu/
The Informatics Research Institute (IRI) is an academic unit providing coordination for several interdisciplinary degrees and research centers across campus. Informatics is an integrative discipline that arises from the synergistic application of computational, informational, organizational, cognitive, and other disciplines whose primary focus is in the acquisition, storage and use of information in a broad spectrum of domains. It includes the study and application of information technology in the arts, sciences, commerce, medicine, and society in general. The IRI has a mission in teaching, research, and service. Activities include:

- Developing interdisciplinary programs in informatics
- Developing interdisciplinary degree programs
- Developing and offering outreach programs
- Coordinating activities of related centers on campus
- Providing leadership in critical infrastructure protection
- Developing educational programs
- Developing infrastructures to support research in diverse fields
- Coordinating interdisciplinary academic concentrations

The IRI coordinates activities among the National Information Assurance Training and Education Center (NIATEC), Simplot Decision Support Center (SDSC), Center for Innovative Technology in Archaeological Informatics (CITI-AI). The IRI charter includes development of interdisciplinary AA, AS, BA, BS, Masters and Doctoral programs as well as concentrations in Information Assurance.

Archaeological Informatics

CITI-AI – Center for Innovative Technology in Archaeological Informatics. The CITI-AI leads research in the organization and analysis of archaeological information. It creates and maintains active partnerships within the archaeological community and serves as an interdisciplinary center of activity uniting basic informatics research and modeling within the Informatics Research Institute, Idaho State University, and its affiliated faculty. The Center is directed by E.S. Lohse, Professor of Anthropology and Division Head for Anthropology, Idaho Museum of Natural History.

Simplot Decision Support Center

The Simplot Decision Support Center (SDSC) is a facility designed to increase group decision making effectiveness and efficiency. It is a research and development effort of Idaho State University resulting from the generosity of the Simplot Corporation. The Simplot Decision Support Center is one of a few dedicated facilities in the nation and is available as a resource to both local and national organizations. It has led the national effort in developing information assurance and computer security training and education standards for the federal government.

Information Assurance

NIATEC – The National Information Assurance Training and Education Center is a consortium of academic, industry, and government organizations to improve the literacy, awareness, training, and education standards in Information Assurance. As the federally designated cornerstone for essential education and training components of a strong Information Assurance initiative, the mission is to establish an effective Information Assurance infrastructure. NIATEC is associated with Idaho State University Center of Academic Excellence. It is a component in the national plan to establish a federal cyber-corps to defend against cyber-based disruption and attacks. Key to building such a cyber-corps is the implementation of robust graduate and undergraduate curricula in Information Assurance.

Information Assurance Degree Concentrations

The IRI coordinates the federally designated Center of Academic Excellence in Computer Security Education. The Center of Academic Excellence includes formal concentrations in Information Assurance at the undergraduate and graduate level in cooperation with NIATEC and CITI. In addition, the Informatics Research Institute offers formal concentrations in Information Assurance for Baccalaureate, Masters, and Doctoral Programs. These concentrations may be above the regular degree requirements documented by the DHS/CNSS approved Certificates offered by Idaho State University.

Certificates for Concentrations:

- CNSS 4011 - National Training Standard for Information Systems Security (INFOSEC) Professionals
- CNSS 4012 - Senior Systems Manager
- CNSS 4013 - Systems Security Administration
- CNSS 4014 - Information Systems Security Officer
- CNSS 4015 – Systems Certification

Program of Study:

Students with appropriate pre-requisites may take courses within the information assurance program as part of a formal information assurance concentration in their degree program. With approval of their advisor and the faculty they may pursue certificates in specialty areas. In addition to courses that support specialized certifications the program offers courses in Computer Forensics and Risk analysis. All courses require preparation of research papers in information assurance topic related to their major field.

- CNSS 4011 - Students in the Computer Information System major may take INFO 4411 Intermediate Information Assurance, a minimum of 6 hours of INFO 4419 Advanced Informatics Practicum or INFO 4493 Advanced Informatics Internship and two additional courses in Information Assurance. Students in the INFO minor may take the same series of courses. Students in other majors may have to take additional courses.

All students seeking additional certifications must complete the requirements for CNSS 4011 and the following:

- CNSS 4012 – Students certifying for 4012 must complete:
  - INFO 4411 Intermediate Information Assurance 3
  - INFO 4412 Systems Security for Senior Management 1-3
  - INFO 4413 Systems Security Administration 1-3
  - INFO 4414 Systems Security Management 1-3
  - INFO 4415 System Certification 1-3
- CNSS 4013 – Students certifying for 4013 must complete:
  - INFO 3380 Networking and Virtualization 3
  - INFO 4411 Intermediate Information Assurance 3
  - INFO 4413 Systems Security Administration 1-3
- CNSS 4014 – Students Certifying for 4014 must complete:
  - INFO 4411 Intermediate Information Assurance 3
  - INFO 4413 Systems Security Administration 1-3
  - INFO 4414 Systems Security Management 1-3
- CNSS 4015 – Students Certifying for 4015 must complete:
in 2003. The INSE objective is to expand research in nuclear engineering and science. The partners in this expanded research are the ISU College of Science and Engineering, the Office of Research, and the Center for Advanced Energy Studies. CAES is a research and education consortium comprised of the three Idaho public universities, the University of Wyoming, private industry, and the Idaho National Laboratory (INL). All of the faculty affiliated with INSE are also faculty of the Department of Nuclear Engineering and Health Physics in the College of Science and Engineering.

Idaho State University’s proximity to INL and the INL’s designation as the premier nuclear energy research laboratory in the U.S. create a great opportunity for nuclear engineering research at Idaho State University. A number of ISU’s nuclear engineering faculty hold joint appointments at INL. Also, several faculty were previously employed at what is today the INL, in research and engineering projects.

INSE coordinates a scholarship program for students interested in pursuing a Bachelor of Science degree in nuclear engineering. Students at Idaho State University, the University of Idaho, or Boise State University may apply as sophomores in engineering. Completion of the Nuclear Engineering degree takes place at Idaho State University, on either the Idaho Falls or the Pocatello campus. Agencies within the U.S. nuclear industry, especially AREVA, the Department of Energy, and more recently, the Nuclear Regulatory Commission, have supported scholarships in this program. Participants are encouraged and assisted to find summer positions at INL.

For further information, visit http://engr.isu.edu/nehp/ne/fac

### Faculty

**Asterisks denote members of the Graduate Faculty.**

**Abraszewski, Lee,** Clinical Assistant Professor, Pocatello Family Medicine Clinic. B.B.A. 1987, M.S. 1992, University of Texas; Nurse Practitioner 2003, St. Louis University. (2007)


**Agado, Brooke E.,** Assistant Professor, Dental Hygiene. RDH, B.S. 2002, Idaho State University. (2005)

**Aho, Ken A.,** Assistant Professor, Biological Sciences. B.S. 1996, Idaho State University; M.S. 2007, Ph.D. 2006, Montana State University. (2007)


**Altieri, Nicholas,** Assistant Professor, Communication Sciences and Disorders. B.A. 2005, The Ohio University; M.S. 2010, Ph.D. 2010, Indiana University. (2012)

**Ament, Robin,** Clinical Assistant Professor, Communication Sciences and Disorders. B.A. 1985, Brigham Young University; M.A. 1993, University of Colorado. (2010)

**Anderson, Curtis W.,** Professor, Biological Sciences; Adjunct Faculty, Physical and Occupational Therapy. B.S. 1989, Southwest Missouri State University; M.S. 1992, Ph.D. 1996, Northern Arizona University. (1998)


**Arvidson, Cathy Ruth,** Associate Professor, Nursing. B.S.N. 1978, Vanderbilt; M.S.N. 1981, University of Florida; Ph.D. 1990, Texas Women’s University; FNP 1995, University of Wisconsin Oshkosh. (1992)

Attebery, Jennifer E.,* Department Chair and Professor, English and Philosophy, Director, Folklore Program. B.A. 1973, College of Idaho; M.A. 1974, Ph.D. 1985, Indiana University. (1990)


Austin, Mark C.,* Department Chair and Professor, Biological Sciences. B.S. 1981, Pennsylvania State University; Ph.D. 1988, Washington State University. (2012)

Baergen, Ralph. Professor, Philosophy; Chair, Human Subjects Committee, Office of Research. B.A. 1983, University of Manitoba; M.A. 1989, Ph.D. 1990, - Syracuse University. (1994)


Barclay, Bryan, Senior Instructor, General Education. B.S. 1980, Brigham Young University; M.S. 1987, University of Washington; Ph.D. 2001, Utah State University. (1999)

Bargen, Gabriel, Assistant Professor, Communication Sciences and Disorders. B.S. 2000, Texas Christian University; M.S.E. 2002, University of Nebraska at Kearney; M.A. 2006, University of Kansas Medical Center; Ph.D. 2010, University of Kansas. (2010)

Bassett, Tamra A., Assistant Lecturer, Languages and Literatures.


Bearden, Shawn E.,* Director, Biomedical Research Institute; Associate Professor, Biological Sciences. B.S. 1994, University of Virginia; M.S. 1996, George Mason University; Ph.D. 2000, Florida State University. (2005)

Beaty, Lawrence H., Department Chair and Executive Director, Energy Systems Engineering Technology. (2006)


Benedetti, JoAnn, Instructor, Practical Nursing.

Bennett, Byron L.,* Assistant Professor, Chemistry. B.A. 1989, Cedarville College; Ph.D. 1997, University of Wyoming. (2007)


Benson Jr., Charles Scott,* Professor, Economics. B.A. 1972, University of California, Berkeley; M.A. 1979, Ph.D. 1988, University of California, Davis. (1986)

Beran, Mary Lou, Database Manager, Library (equivalent rank, Professor). B.S. 1963, Mankato State College; M.Libr. 1968, University of Washington. (1968)


Bezik, Mark, Assistant Professor, Accounting. B.B.A. 1974, Cleveland State University; M.B.A. 1978, Case Western Reserve University. (1999)


Bigelow, James,* Associate Professor, Biomedical and Pharmaceutical Sciences. B.S. 1979, University of Illinois at Urbana-Champaign; Ph.D. 1985, Indiana University at Bloomington. (2004)

Biorn, Camille, Clinical Assistant Professor, Dental Hygiene. B.S. 1997, Idaho State University. (2001)


Black, Catherine, Associate Lecturer, Biological Sciences. B.A. 1991, University of Utah; M.S. 1996, Idaho State University. (1998)


Blanton, Cynthia A.,* Assistant Professor, Health and Nutrition Sciences. B.S. 1990, California State University, Northridge; Ph.D. 2000, University of California, Davis. (2007)

Blume, Jim, Instructor, Information Technology Systems.

Bokelman, Jean, Clinical Associate Professor, Family Medicine Residency Program. A.B. 1975, Stanford University; M.D. 1980, Case Western Reserve University. (1992)


Borzadek, Eliza, Clinical Assistant Professor, Pharmacy Practice and Administrative Sciences; Clinical Assistant Professor, Clinical Research Center; Clinical Assistant Professor, Pocatello Family Medicine Clinic. PharmD 2004, Idaho State University (2006)


Bottenberg, Carrie, Assistant Lecturer, Geosciences.


Brey, Richard R.,* Department Chair and Professor, Nuclear Engineering and Health Physics. B.S. 1988, M.S. 1990, Ph.D. 1994, Purdue University. (1994)


Brown, Anna, Assistant Professor, Accounting. B.A. 2005, Wesleyan University; M.B.A. 2009, Baruch College; M. Phil. Accounting 2012, Baruch College; Ph.D. 2014 Baruch College. (2014)

Brumley, Michele R.,* Assistant Professor, Psychology. B.A. 1999, DePaul University; Ph.D. 2005, University of Iowa. (2007)


Burgett, Eric, Director of Research Innovation in Science and Engineering and Associate Professor, Nuclear Engineering and Health Physics.

Burton, Leonora D., Instructor, Adult Basic Education. B.S. 1993, Utah State University. (1999)


Calderon, Hector, Visiting Assistant Professor, Physics.


Calley, Kristin H.,* Chair and Associate Professor, Dental Hygiene. B.S. 1988, Idaho State University; M.S. 1993, Old Dominion University. (1992)

Callinan, Brigid, Acting Coordinator and Instructor, Culinary Arts. B.A., University of Idaho.


Cashmore, Catherine A.,* Associate Dean, College of Pharmacy; Associate Professor, Pharmacy Practice and Administrative Sciences; Assistant Director, Nontraditional PharmD Program; Assistant Director, Idaho Drug Information


Castle, Lyle W.,* Dean, Academic Programs, Idaho State University-Idaho Falls; Professor, Chemistry. B.S. 1985, Southern Utah State College; M.S. 1988, University of Nebraska; Ph.D. 1992, University of Florida. (1994)

Chen, Shu-Chuan, Associate Professor, Mathematics. B.S. 1984, National Chung-Hsing University, Taiwan; M.S. 1996, National DongHwa University, Taiwan; Ph.D. Pennsylvania State University. (2012)


Chouffani el Fassi, Khalid,* Research Associate Professor, Idaho Accelerator Center. B.S. 1987, École Nationale Supérieure de Physique de Marseille, France; M.S. 1988, Université de Saint Jérôme Marseille; M.S. 1992, Ph.D. 1995, Catholic University of America. (2001)


Christensen, Kay M., Associate Vice President, Academic Programs and Student Success. B.S. 1977, University of Utah; J.D. 1984, University of Idaho. (1997)


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Stone, Cally. Clinical Assistant Professor, Clinic Coordinator, Language and Hearing Clinic, Meridian Health Science Center, Idaho State University. B.S. 1994, M.S. 1996, Idaho State University. (2009)

Stover, Justin, Lecturer, History. B.S. 2003, Central Michigan University; M.A. 2005, National University of Ireland; Ph.D. 2011, Trinity College (Dublin). (2012)


Streagle, Karren D., Assistant Professor, School Psychology, Literacy and Special Education. B.S. 1985, Ferrum College; M.Ed. 1995, Ph.D. 2011, Virginia Commonwealth University. (2012)

Street, Jeff.* Associate Professor, College of Business. B.S. 1982, East Tennessee State University; M.B.A. 1990, University of Tennessee; Ph.D. 2007, University of Georgia. (2007)


Swetnam, Susan H.,* Director of Composition and Professor, English and Philosophy. B.A. 1972, University of Delaware; M.A. 1975, Ph.D. 1979, University of Michigan. (1979)

Tabatadze, George. Visiting Assistant Professor, Nuclear Engineering and Health Physics. B.S. 2003, Tbilisi State University; M.S. 2007, University of Nevada, Las Vegas; Ph.D. 2012, Idaho State University. (2012)

Talford, David B.,* Master’s Project Coordinator and Clinical Assistant Professor, Physician Assistant Studies. B.S. 1999, Des Moines University; M.S. 2007, University of Nebraska. (2007)


Tapanila, Leif,* Research Curator and Earth Sciences Division Head, Idaho Museum of Natural History; Associate Professor, Geosciences. Honors B.Sc. 1999, University of Waterloo, Waterloo, Canada; M.S. 2000, Laurentian University, Sudbury, Canada; Ph.D. 2005, University of Utah. (2005)


Tatar-Ivanov, Erdinč R. “Eddie,”* Associate Professor, Physics, Diploma, Sophia University, Bulgaria; M.S. 1997, M.S. 2000, Ph.D. 2000, University of Notre Dame. (2001)


Terrell, Robin K., Instructor, Medical Assisting. C.M.A. 2006, Idaho State University, American Association of Medical Assistants. (2011)

Thackray, Glenn D.,* Department Chair and Professor, Geosciences. B.S. 1985, Beloit College; M.S. 1989, University of Oregon; Ph.D. University of Washington. (1994)


Thompson, Kelly E., Clinical Assistant Professor, Physical and Occupational Therapy. B.S. 1990, University of New Hampshire; M.S. 2002, Belmont University. (2002)


Tolke, Joanne, Associate Dean and Professor, College of Business. B.S. 1981, University of Wisconsin; M.S. 1983, University of Minnesota; Ph.D. 1988, Iowa State University. (1988)


Trawick, Paul. Chair and Associate Professor, Anthropology. B.S. 1977, University of Oregon; M.A. 1982, University of Texas, Austin; Ph.D. 1994, Yale University. (2012)


Vailas, Arthur C., University President; Professor. B.S. 1973, University of New Hampshire; Ph.D. 1979, University of Iowa. (2006)

Vega, Jose, Assistant Professor, Accounting. B.S.B.A. 2006, University of Denver; M.B.A. 2009, Colorado State University at Pueblo; Ph.D. 2014, University of Texas at San Antonio. (2014)

Wabrek, Richard M.,* Associate Professor, Mechanical Engineering; Adjunct faculty, Sport Science and Physical Education. B.S. 1971, Valparaiso University; M.S. 1976, University of Vermont; Ph.D. 1985, New Mexico State University. (1989)


Weber, Carolyn,* Assistant Professor, Biological Sciences. B.A. 2004, Cornell College; Ph.D. 2009, Louisiana State University. (2012)


Weeden, Allisha M., Assistant Professor, Dietetics. B.S. 2002, Kansas State University; M.S. 2004, University of Kansas; Ph.D. 2008, Kansas State University. (2009)


Whitaker, Mary M., Clinical Professor, Communication Sciences & Disorders. B.S., 1984, University of Utah; M.S. 1986, University of Arizona; Ed.S. 1998, Idaho State University. (1986)


Williams, Brian G.,* Associate Chair and Associate Professor, Mechanical Engineering. B.S. 1990, Brigham Young University; M.S. 1991, Ph.D. 1997, Utah State University. (2002)

Williams, Charles F. (Rick),* Research Curator, Ray J. Davis Herbarium and Life Science Division Head, Idaho Museum of Natural History; Associate Professor, Biological Sciences. B.S. 1979, University of Oklahoma; M.S. 1985, University of Miami; Ph.D. 1991, University of Wisconsin, Madison. (1999)

Williams, D.J.,* Program Director and Assistant Professor, Social Work. B.S. 1992, Weber State University; M.S. 1998, University of Utah; M.S.W. 2000, University of Utah; Ph.D. 2004, University of Alberta, Canada. (2006)


Wolter, Brent,* Assistant Department Chair and Associate Professor, English and Philosophy. B.A. 1991, Wartburg College; M.A. 1999, University of Birmingham; Ph.D. 2005, University of Wales. (2005)


Woodhouse, William M., Associate Director and Clinical Professor, Family Medicine Residency Program. B.S. 1979, University of Iowa; M.D. 1983, University of Iowa College of Medicine. (1994)


Wright, Derek, Faculty Physician, Pocatello Family Medicine Clinic. B.A. 1992, Brigham Young University; M.D. 1996, University of Utah. (2007)

Yan, Guan,* Assistant Professor, Biomedical and Pharmaceutical Sciences. B.S. 1996, M.S. 1999, Shenyang Pharmaceutical University, Shenyang, PRC; Ph.D. 2004, University of Utah. (2009)

Yang, Luobin,* Research Assistant Professor, Biological Sciences. B.S. 1992, Peking University; M.S. 2001, Marquette University; M.S. 2003, Marquette University and Medical College of Wisconsin; Ph.D. 2001, Idaho State University. (2011)

Ybarguen, Jeffrey, Program Director, Idaho Dental Education Program; Adjunct Faculty, Dental Hygiene. B.S. 1997, Idaho State University; D.D.S. 2001, Creighton University. (2005)

York, Kevin, Assistant Professor, Music; Associate Director of Bands. B.M.E. 2001, Grand Valley State University; M.M.P 2005, Texas Tech University. (2009)

Yost, Luther, Senior Lecturer, Mathematics. B.S. 1981, Frostburg State - University; M.A. 1987, University of Maryland. (1994)

Young, Glenn, Program Coordinator and Master Instructor, Health Information Technology. A.S. 1986, Boise State University; Accredited Records Technician. (1995)


Zhu, Wenxiang, Assistant Professor, Mathematics. B.S. 1997, M.S. 1995, Fudan University, China; Ph.D. 2002, Iowa State University. (2006)


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Asterisks denote members of the Graduate Faculty.

Adamcik, Barbara A.,* Professor, Pharmacy Practice and Administrative Sciences. 1985-2013

Aho, James A.,* Professor, Sociology, Social Work and Criminal Justice. 1969-2010

Akersten, William A., Associate Professor, Biological Sciences and Geosciences; Curator, Vertebrate Paleontology, Idaho Museum of Natural History. 1985-2009

Allen, Virginia B.,* Professor, Counseling. 1981-2012

Anderson, Robert C., Professor, Zoology. 1969-2007

Ashton, Carol Ann,* Associate Professor, Nursing. 2001-2011

Bain, Barbara A., Director of Undergraduate Studies and Professor, Communication Sciences and Disorders, and Education of the Deaf. 1989-2004

Basley, Ronald D., Professor, Marketing. 1978-2005

Beebe, Thomas G., Instructor, Electronics Technology. 1957-1989

Bezhold, Wendland, Research Professor, Physics. 2000-2010

Benintendi, Wilma, Associate Professor, Education. 1967-1984

Bielby, Victor C., Instructor, Civil Engineering Technology. 1966-1993

Black, James M., Instructor, Electronics Technology. 1963-1993

Bliss, Traci, Professor, Educational Foundations. 1996-2008

Blount, Charles W., Professor, Geology. 1975-1990

Bobell, John LV, Professor, Human Resource Training and Development. 1990-2002

Boes, Richard F.,* Professor, Accounting. 1977-2011

Booher, Shirley (Deagle), Instructor, Office Technology. 1964-1996

Bowen, Denise M.,* Professor, Dental Hygiene. 1976-2010

Bowen, Richard L., University President. 1985-2005

Bowmer, Richard G., Professor, Botany. 1961-1997

Braun, Loren, Professor, Chemistry. 1957-1989

Brown, Donald D., Professor, Art. 1956-1994

Brown, Norris C., Instructor, Diesel Technology. 1972-1997

Browning, Jr., Wallace E., Professor, Physical Education. 1963-1990

Bryan, Clifford E., Professor, Sociology. 1971-2001


Burns, Mary Jane,* Co-Director, Women Studies Program; Associate Professor, Political Science. 1985-2006

Cantrill, Dante K.,* Professor, English. 1974-2005

Chambers, Darold, Registrar. 1961-1990

Christensen, Calvin D., Instructional Coordinator, Laser/Electro-Optics Technology. 1971-2000

Christie, Carole R., Professor, Dental Hygiene. 1979-2011

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Cowles, Lois Anne, Associate Professor, Sociology, Social Work, and Criminal Justice. 1993-2003

Cresswell, Donald J., Associate Professor, Mathematics. 1968-2000

Christelow, Allan,* Professor, History. 1983-2013

Christelow, Stephanie,* Professor, History. 1990-2015

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Daniels, Christopher K.,* Professor, Biomedical and Pharmaceutical Sciences. 1988-2012
Davis, Everett Eugene (Gene), Professor, Educational Leadership; Director, Intermountain Center for Education Effectiveness. 1992-2007

Dial, Theresa Gail, Professor, Art. 1974-2008

Dickey, John, Associate Professor, Family Medicine. 1997-2015

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Downing, Joan K., Public Services Director (equivalent rank, Professor), Library. 1969-1986

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Durschi, Ralph, Senior Instructor, Robotics and Communications. 1986-2013

Eastman, Philip, Vice President for Financial Services. 1956-1988

Edgar, Thomas E., Professor, Counselor Education. 1966-1987

Edwards, Marilyn, Instructional Program Coordinator, Culinary Arts Technology. 1966-1997

Eklander, Leann, Senior Instructor, General Education. 1981-2007

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Faler, Kenneth T., Professor, Chemistry and Physics. 1967-1991

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Feige, Gary, Coordinator and Senior Instructor, Machining Technology. 1977-2003

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Fontenelle, L. Judy, Professor, Biomedical and Pharmaceutical Sciences. 1969-1998

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Fortsch, David E., Senior Lecturer, Geosciences. 1974-2004

Foster, Richard H., Jr., Professor, Political Science. 1973-2008

Francis, Jr., Charles A., Associate Professor, Radiographic Science. 1987-2011

Frazier, Timothy H.,* Professor, Mass Communication. 1986-2013

Galizia, Virginia, Associate Dean, College of Pharmacy; Professor, Pharmacy Practice and Administrative Sciences. 1996-2002

Gantt, Gamewell D.,* Professor, History. 1972-2013


Herzog, Anita, Professor, Dental Hygiene. 1978-2008

Hewett, Beverly J.,* Clinical Assistant Professor, Nursing. 1992-2014

Hill, Linda Charlotte, Associate Professor, Mathematics. 1976-2006

Hill, Richard D.,* Professor, Mathematics. 1967-2012

Hitchcock, Leonard A., Associate University Librarian, Collection Development (equivalent rank, Professor), Library. 1984-2006

Hjelm, Victor S.,* Professor, Political Science. 1968-2001

Hobbs, Dan L., Associate Professor, Radiographic Science. 1999-2015

Hodges, Kathleen O.,* Professor, Dental Hygiene. 1979-2013

Hofman, Cornelius A., Professor, Economics. 1960-1997

Holmer, Richard N.,* Professor, Anthropology. 1983-2011

Holte, Karl E., Professor, Botany; Curator, Museum. 1965-1997

House, Edwin W., Chief Research Officer; Professor, Physiology. 1966-2004

House, Janet G., Associate Professor, Mass Communication. 1985-2002

Huck, Wilbur, Associate Professor, English. 1957-1990

Hughes, Scott S.,* Interim Dean, College of Arts and Sciences; Professor, Geosciences. 1991-2010


Hurley, Stephen C., Professor, Pharmacy Practice and Administrative Sciences. 1976-2006

Inouye, Richard S.,* Professor, Ecology. 1987-2010

Gibson, Philip J., Department Chair, Instructor, Business and Service. 1981-2000

Goff, Glen F., Instructor, Electronics Technology. 1960-1989

Goldbeck, H. Janne, Professor, English. 1976-2006

Gravatt, Darwin, Instructional Program Coordinator, Auto Collision, Repair and Refinishing. 1974-1997

Green, Joel N., Instructor, Diesel/Diesel Electric Technology. 1975-2001

Greenwood, Audrey, Professor, Foreign Languages. 1957-1978

Griffith, John S., Professor, Biology. 1977-1999

Hansen, Vaughn, Coordinator and Senior Instructor, Electromechanical Design Drafting Technology. 1970-2005

Harmon, J. Frank, Director and Research Professor, Idaho Accelerator Center; Professor, Physics. 1969-2008


Hurley, Stephen C., Professor, Pharmacy Practice and Administrative Sciences. 1976-2006

Inouye, Richard S.,* Professor, Ecology. 1987-2010
Isaacson, Eugene I., Professor, Biomedical and Pharmaceutical Sciences. 1969-1998

Jacobson, Grace, Associate Professor, Nursing. 1981-2002

Jenkins, Robert M., Coordinator and Senior Instructor, Automotive Technology. 1974-2005

Jenkins, Susan J., Professor, Educational Foundations. 1988-2013

Jensen, Jay, Dean of Students. 1956-1989

Joe, Victor C., Department Chair and Professor, Psychology. 1969-2003

Johnson, Frank J., Instructor, Civil Engineering Technology. 1966-1993

Johnson, Mark A., Professor, Management. 1987-2009

Jolly, James P.,* Professor, Management. 1982-2015

Jones, Gordon F., Associate Dean, School of Applied Technology. 1968-1995

Jue, Sandra G., Clinical Professor, Pharmacy Practice and Administrative Services. 1973-2012

Kawamura, Carole J., Assistant Professor, Dental Hygiene. 1975-2002

Kears, Richard L.,* Director of Undergraduate Programs and Professor, Health and Nutrition Sciences. 1988-2004

Kidd, Paul F., Instructor, Graphic Arts. 1965-1995

Kijinski, John L., Dean, College of Arts and Sciences; Professor, English and Philosophy. 1985-2007

Kilpatrick, John A., Professor, Management. 1977-2006

King, Kathleen, Associate Professor, English. 1984-2007

King, William L., Professor, English and Philosophy. 1960-1994

Kirkpatrick, David, Professor, Military Science, Director of Housing. 1951-1955, 1958-1981

Klug, Beverly J.,* Associate Professor, School Psychology, Literacy, and Special Education. 1985-2014

Kovaes, Rudolph S.,* Professor, Art and Pre-Architecture. 1980-2012

Kratz, Lawrence J.,* Professor, Mathematics. 1966-2010

Kritsky, Delane C., Associate Dean, College of Health Professions; Professor, Health and Nutrition Sciences and Biological Sciences. 1974-2008

Kunze, Jay.,* Professor, Nuclear Engineering and Health Physics. 1995-2013

Lang, Patrick M., Professor, Mathematics. 1985-2012

Lawson, Jonathan N.,* Professor, Educational Leadership and Instructional Design. 1995-2013

Laurence, Dennis, Professor, English and Philosophy. 1971-1992

LeBlanc, Ronald P., Professor, Marketing; Adjunct Faculty, Sport Science and Physical Education. 1980-2006

Lerch, Robert, Professor, Education. 1971-1995

Linder, Allan, Professor, Biological Sciences. 1963-1988

Lloyd, Arthur P., Professor, Counseling. 1967-2001

Lloyd, Marcia L., Professor, Dance. 1977-2001

Loebs, Bruce, D.,* Professor, Communication, Media, and Persuasion. 1969-2015

Longmore, Dean R., Professor, Department of Finance. 1978-2001

Lu, Joseph, Professor, Libraries. 1972-1992

Luckey, Angela S., Associate Professor, Educational Foundations. 1996-2009

Marcum, R. Laverne, Professor, Education. 1969-1984

Marley, Bert, Professor, History. 1967-1989

Martin, Anthony, Professor, Art. 1977-2015

Martindale, Charlene, Associate Professor, English/Instructional Coordinator, Business Communication. 1970-1999

Matteson-Howell, Janice, Chair, Technical Department. 1984-2007

Matthews, Leroy J., Professor, Psychology. 1968-2000

Maughan, Ralph B.,* Professor, Political Science. 1971-2007

McAleese, Willis J.,* Professor, Health Education and Promotion. 1989-2014

McCune, Joan H., Professor, Microbiology. 1980-2001

McCune, Ronald W., Professor, Biochemistry. 1970-2004

McGee, Shanna, Professor, Psychology. 1964-1985

McLaughlin, Diana, Associate Department Chair; Assistant Professor, Nursing. 1987-2007

McRoberts, Jacqueline, Associate Professor, Nursing. 1981-2005

Merrill, Clifton L., Master Instructor, Civil Engineering Technology. 1985-2011

Merrill, Donald, Master Instructor, College of Technology. 1971-2008

Millner, William, Professor, Business. 1971-1983


Montgomery, Tracy T.,* Associate Professor, English and Philosophy. 1990-2013


Mullin, Anne E., Associate Professor, English and Philosophy. 1990-2000

Myers, Rosemary N., Director, Individualized Education Programs; Assistant Professor, English and Philosophy. 1960-1999

Naidu, D. Subbaram,* Professor, Electrical Engineering and Computer Science. 1990-2014

Newsome, Jack D.,* Associate Professor, Educational Foundations. 1997-2011

Newsome, Julie Renee,* Associate Professor, Educational Foundations. 1998-2013
Nickisch, Craig W., Professor, Foreign Languages. 1988-2004
Nilson, Douglas C., Associate Professor, Political Science. 1989-2009
Nitse, Philip S.,* Professor, Marketing. 1993-2010
Noakes, Sandra D., Assistant Professor, Physical Education. 1966-2002
Nunn, Gerald, D.,* Professor, School Psychology Literacy and Special Education. 1996-2011
Ore, H. Thomas, Professor, Geology. 1963-1997
Owens, John “Jack” B.,* Professor, History. 1975-2011
Paarmann, Carlene S.,* Professor, Dental Hygiene. 1976-2011
Park, Pamela, Professor, Languages and Literature. 1985-2015
Parker, Barry R., Professor, Physics. 1967-1997
Parker, Stephen K., Associate Professor, Mathematics. 1972-2002
Pawl, Sheelwant B., Professor, Management. 1967-1999
Peirson, Donald S.,* Professor, Teacher Education. 1980-2003
Pein, Deborah M., Assistant Professor, General Education. 1988-2011
Peña, Sally J.,* Professor, Educational Foundations. 1990-2010
Plewaw, Jr., Franklin J.,* Professor, Accounting. 1984-2013
Priddy, Kathleen S., Senior Instructor, Office Technology. 1976-2005
Pumphrey, Lela "Kitty" D.,* Professor, Accounting. 1988-2006
Rankin, Roger A.,* Professor, Educational Foundations. 1981-2011
Reis, Priscilla R.,* Associate Professor, Accounting. 1994-2013
Renn, Nancy, Clinical Assistant Professor, Nursing. 1993-2012
Roberts, Mark W.,* Professor, Psychology. 1977-2015
Ronald, Bruce P., Professor, Chemistry. 1968-2001
Rose, Fred L., Professor, Biological Sciences. 1969-2000
Rost, Robert, Senior Instructor, Trade and Industrial Department. 1972-2007
Rucker, Jack, Director, School of Vocational-Technical Education. 1955-1976
Ruckman, JoAnn S., Co-Director, Women Studies Program; Professor, History. 1974-2001
Sagness, Richard L., Director, Office of Clinical Experiences and Student Services; Professor, Teacher Education. 1979-1999
Sahlberg, Jeannie H., Instructor, Office Occupations. 1967-1990
Salzman, Stephanie, Professor, Teacher Education. 1986-2002
Sato, Alyce, Associate Professor, Nursing. 1976-2004
Schneider, Audrey D. (Weston), Associate Professor, Speech-Language Pathology.1990-2005
Schow, H. Wayne, Professor, English and Philosophy. 1967-1999
Schow, Ronald L., Professor, Audiology. 1975-2007
Schwendig, Warren Lee, Professor, Marketing. 1968-2003
Scott, Darrell F., Assistant Dean, College of Business; Senior Lecturer, Marketing. 1970-2007
Seeley, Rodney R.,* Professor, Physiology. 1973-2008
Sharp, William T., Professor, Pharmacy Practice and Administrative Sciences. 1975-2000
Smedley, Thayne, Professor, Audiology. 1983-2001
Smith, Denzell S., Professor, English and Philosophy. 1972-1991
Smith, Jill M., Assistant Professor, Accounting. 1986-2009
Sorensen, David N.,* Professor, Speech Language Pathology. 1985-2012
Spadafore, Gerald J., Professor, Teacher Education. 1969-1999
Spall, Richard D., University Ombudsman; Professor, Pathology. 1981-2003
Spiegel, Kathleen, Clinical Professor, Clinical Laboratory Science. 1991-2007
Standley, Mike, Director of Registration and Records. 1971-1999
Stanek, Alan E., Chair and Professor, Music. 1976-2001
Stenson, Carol M., Professor, Special Education. 1978-2003
Stephens, Trent D., Professor, Biology. 1981-2011
Stocks, Anthony, Chair and Professor, Anthropology. 1979-2006
Stratton, William E.,* Professor, Management. 1974-2011
Streubel, Donald P., Professor, Biology. 1974-1999
Strommen, Dennis, Department Chair and Professor, Chemistry. 1992-2004
Sutcliffe, Roy M., Instructor, Electronics Technology. 1958-1989
Sutter, Jr., E. John, Professor, Chemistry. 1971-2004
Swanson, Merwin, Professor, History. 1972-2002
Sweat, Robert C., Coordinator and Senior Instructor, Computer/Business Equipment Technician Program. 1978-2004
Swetnam, Susan H.,* Professor, English and Philosophy. 1979-2013
Tate, Paul D., Dean, Graduate School; Professor, English and Philosophy. 1976-2006
Trinklein, Michael J., Professor, Mass Communication. 1984-2004
Trost, Charles H., Professor, Biological Sciences; Curator, Museum. 1968-2000
Tullis, James, Professor, Biological Sciences. 1965-1996
Urfer, Alexander G.,* Professor, Physical and Occupational Therapy. 1977-2011

Vegors, Stanley, Professor, Physics. 1958-1992

Vittetoe, Dennis, Master Instructor, Electronic Systems Technology. 1976-2003


Wallber, M. Josara, Clinical Associate Professor, Communications Sciences and Disorders. 2006-2014

Walsh, Dennis M., Professor, English and Philosophy. 1979-2004

Walsh, Mary Ellen,* Professor, English and Philosophy. 1971-2002

Warnke, Janet Lynn, Assistant Librarian (equivalent rank, Professor), Library. 1978-2012

Watters, Ronald, Senior Lecturer, Sport Science and Physical Education. 1974-2007

Watts, Robert T., Associate Professor, Computer Information Systems. 1978-1999

Wells, Gary R.,* Professor, Finance. 1965-2009


Waller, Janene, Clinical Associate Professor, Communication Sciences and Disorders. 1990-2011

Wilson, Albert E.,* Professor, Engineering and Nuclear Science. 1966-1995

Wissa, Maher F., Professor, Geomatics Technology. 1993-2008

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Idaho State University Administration

### Office of the President

<table>
<thead>
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<th>Title</th>
<th>Phone Number</th>
</tr>
</thead>
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</tbody>
</table>

### Academic Affairs

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Phone Number</th>
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<tbody>
<tr>
<td>Laura Woodworth-Ney</td>
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<td>Lyle Castle</td>
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<tr>
<td></td>
<td>Academic Programs, ISU-Idaho Falls</td>
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<tr>
<td>Ali K. Crane</td>
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<tr>
<td></td>
<td>and Enrollment Planning, Idaho State University-Meridian</td>
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<td></td>
<td>Effectiveness</td>
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<tr>
<td>Linda C. Hatzenbuehler</td>
<td>Vice Provost and Executive Dean, Division of</td>
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<td></td>
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<td>Cynthia Hill</td>
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<td>Margaret Johnson</td>
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<td>Bessie Katsilometes</td>
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<td>ISU-Meridian</td>
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<td>Laura McKenzie</td>
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<td>Vince Miller</td>
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<td>Mary Nies</td>
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<tr>
<td>Thomas Ottaway</td>
<td>Dean, College of Business</td>
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<td>Scott Rasmussen</td>
<td>Dean, College of Technology</td>
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<td>Chelsie Rauh</td>
<td>Director, Early College Program</td>
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<td>Nicole Roseberg</td>
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<td>Scott Scholes</td>
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Leif Tapanila  Acting Director, Idaho Museum of Natural History  (208) 282-5417
Kandi Jo Turley-Ames  Founding Dean, College of Arts and Letters  (208) 282-3053
Chris Vaage  Director, University Programs, ISU-Twin Falls  (208) 282-4840
Cornelis J. Van der Schyf  Dean, Graduate School  (208) 282-2490

Research and Economic Development

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cornelis J. Van der Schyf</td>
<td>Vice President for Research</td>
<td>(208) 282-3134</td>
</tr>
<tr>
<td>Deb Easterly</td>
<td>Executive Director, Research Integrity</td>
<td>(208) 282-2618</td>
</tr>
<tr>
<td>Dave Harris</td>
<td>Executive Director, Research Development</td>
<td>(208) 282-2592</td>
</tr>
<tr>
<td>Monica Huyg</td>
<td>Director, Contracts</td>
<td>(208) 282-3478</td>
</tr>
</tbody>
</table>

Finance and Administration

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>James A. Fletcher</td>
<td>Vice President for Finance and Administration</td>
<td>(208) 282-3540</td>
</tr>
<tr>
<td>Brad Batiuk</td>
<td>Assistant Vice President for Finance and Administration/Budget Officer</td>
<td>(208) 282-4277</td>
</tr>
<tr>
<td>David Buck</td>
<td>Director, Purchasing Services</td>
<td>(208) 282-3111</td>
</tr>
<tr>
<td>Roger Egan</td>
<td>Executive Director of Treasury, Procurement, Policies, and Business Services</td>
<td>(208) 282-2512</td>
</tr>
<tr>
<td>Randy Gaines</td>
<td>Chief Information Officer</td>
<td>(208) 282-2499</td>
</tr>
<tr>
<td>Stacey Gibson</td>
<td>Director, Equal Opportunity, Affirmative Action, and Diversity</td>
<td>(208) 282-3973</td>
</tr>
<tr>
<td>Brian Hickenlooper</td>
<td>Assistant Vice President for Finance and Administration</td>
<td>(208) 282 4117</td>
</tr>
<tr>
<td>James Martin</td>
<td>Director, Financial Aid and Scholarships</td>
<td>(208) 282-2341</td>
</tr>
<tr>
<td>Lynette Mitchell</td>
<td>Assistant Vice President for Finance/ Administration and Academic Affairs</td>
<td>(208) 282-4380</td>
</tr>
<tr>
<td>Phillip M. Moessner</td>
<td>Associate Vice President for Facilities Services</td>
<td>(208) 282-4229</td>
</tr>
<tr>
<td>Stephanie Richardson</td>
<td>Assistant Director, Anderson Gender Resource Center</td>
<td>(208) 282-3590</td>
</tr>
<tr>
<td>Brant Wright</td>
<td>Controller</td>
<td>(208) 282-4208</td>
</tr>
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Student Affairs

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
<td>Patricia Smith Terrell, Ed.D.</td>
<td>Vice President for Student Affairs</td>
<td>(208) 282-2315</td>
</tr>
<tr>
<td>Brooke Barber</td>
<td>Director of Orientation, Leadership, and Service</td>
<td>(208) 282-2973</td>
</tr>
<tr>
<td>Ches Barnes</td>
<td>Director, Bennion Student Union</td>
<td>(208) 282-7865</td>
</tr>
<tr>
<td>Lance Erickson</td>
<td>Director, Career Center</td>
<td>(208) 282-2380</td>
</tr>
<tr>
<td>Jacob Johnson</td>
<td>Director, Student Life</td>
<td>(208) 282-2794</td>
</tr>
<tr>
<td>Todd Johnson</td>
<td>Director, Veteran Student Services Center</td>
<td>(208) 282-4245</td>
</tr>
<tr>
<td>Doug Milder</td>
<td>Director, Campus Recreation</td>
<td>(208) 282-3151</td>
</tr>
<tr>
<td>Jerry Miller</td>
<td>General Manager, ISU Radio</td>
<td>(208) 282-4812</td>
</tr>
<tr>
<td>Don Paulson</td>
<td>Director, Counseling and Testing Services</td>
<td>(208) 282-2130</td>
</tr>
<tr>
<td>Lowell Richards</td>
<td>Assistant Vice President for Student Affairs, Idaho State University Student Unions and Student Activities</td>
<td>(208) 282-2427</td>
</tr>
<tr>
<td>Ron Solbrig</td>
<td>Director, Idaho State University Health Center</td>
<td>(208) 282-2330</td>
</tr>
<tr>
<td>Craig Thompson</td>
<td>Director, University Housing</td>
<td>(208) 282-2120</td>
</tr>
<tr>
<td>Kerry Williamson</td>
<td>Director, Early Learning Center</td>
<td>(208) 282-3274</td>
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State Board of Education

<table>
<thead>
<tr>
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<tr>
<td>Emma Atchley</td>
<td>President</td>
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<tr>
<td>Rod Lewis</td>
<td>Vice President</td>
</tr>
<tr>
<td>Don Soltman</td>
<td>Secretary</td>
</tr>
<tr>
<td>Debbie Critchfield</td>
<td>Member</td>
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<tr>
<td>Bill Goesling</td>
<td>Member</td>
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<tr>
<td>David Hill</td>
<td>Member</td>
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<tr>
<td>Richard Westerberg</td>
<td>Member</td>
</tr>
<tr>
<td>Sherri Ybarra</td>
<td>State Superintendent of Public Instruction, Ex-officio Member</td>
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University Advancement

<table>
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<tr>
<td>Kent M. Tingey, D.A.</td>
<td>Vice President for University Advancement</td>
<td>(208) 282-3198</td>
</tr>
</tbody>
</table>
Idaho State University – Idaho Falls

Dean, Academic Programs:
Lyle Castle, Ph.D.

Idaho State University–Idaho Falls
350 University Place
1784 Science Center Drive
Idaho Falls, ID 83402
7800 from campus telephones
(208) 282-7800 from off campus
http://www.isu.edu/departments/ifche

Idaho State University–Idaho Falls is the higher education center of one of Idaho’s most dynamic cities. It offers a comprehensive general education curriculum as well as 29 complete degree programs, all from a Carnegie-classified research institution with more than 50 years of experience in helping Upper Snake River Valley residents achieve their goals. Idaho State University–Idaho Falls is the largest of Idaho State University’s statewide network of higher education centers. It provides more than 2,000 students each semester the opportunity to complete associate, bachelor, master, and doctoral degrees in Idaho Falls, making it the city’s hometown university. Conveniently located at University Place on the banks of the Snake River, Idaho State University–Idaho Falls’ neighbors include the U.S. Department of Energy headquarters for the Idaho National Laboratory, and the new Center for Advanced Energy Studies.

Students at Idaho State University–Idaho Falls take classes that are not only close to home, but also just a short drive from a three-state region’s commercial, health care, business and government centers. Upper Valley residents who are seeking continuing-education opportunities find electives as well as noncredit professional- and personal-development courses. Day and evening classes also are available. Among the many degree programs that can be completed at Idaho State University–Idaho Falls are associate degrees in biology, business, English, history, mathematics and physics; the M.B.A.; the B.S. in nuclear engineering; the Ph.D. in Engineering and Applied Science (Nuclear Engineering); the B.S. in nursing; and the M.Ed. and Ed.D.

Through its partnership with the University of Idaho, students can take classes from either university using a single admission, registration and fee-payment process. A partnership with Eastern Idaho Technical College makes health-professions education available close to the city’s high-tech regional medical center.

Idaho State University–Idaho Falls’ contemporary facilities include up-to-date computing labs, a large auditorium and student-services offices. A campus centerpiece is the Samuel H. Bennion Student Union that includes study and games areas, cafeteria, lounge, bookstore, and computer lab.

Between classes, students can cross-country ski at adjacent Freeman Park, jog on the paved riverside greenbelt, or watch University Place’s resident bald eagles and ospreys soar above the river.

To learn how Idaho State University–Idaho Falls can help you achieve your goals conveniently and affordably, call (208) 282-7800; visit the campus at 1776 Science Center Drive; or browse online at http://www.isu.edu/departments/ifche.

Idaho State University – Meridian

Dean, Academic Programs:
Ms. Bessie Katsilometes

Idaho State University–Meridian
1311 E Central Dr.
Meridian ID 83642
(208) 373-1700
http://www.isu.edu/meridian/

In keeping with Idaho State University’s mission to educate health professionals and address the need for graduates in the health disciplines, Idaho State University–Meridian offers several programs in the health professions.

Idaho State University–Meridian currently offers five undergraduate programs, including an Associate of Science in Paramedic Science, Bachelor of Science degrees in Communication Sciences and Disorders, Medical Laboratory Science, and Educational Interpreting, and a 16-month Fast Track Nursing program. Idaho State University–Meridian also offers 10 graduate degree programs, primarily in the health professions, including the third and fourth year in a Doctor of Audiology program. The College of Pharmacy in the Division of Health Sciences oversees third- and fourth-year professional pharmacy students, including clinical rotations in the Meridian area. Other programs housed at Idaho State University–Meridian include a dietetic internship and a dental residency program.

The campus covers approximately 40,000 square feet and houses classrooms, six distance learning rooms, two computer labs, a laboratory, and clinics for speech-language pathology, nursing, and counseling.

Student applications and enrollment materials are available at Idaho State University–Meridian.

http://www.isu.edu/meridian/

Idaho State University – Twin Falls

Director, Academic Programs:
Ms. Chris Vaage

Idaho State University–Twin Falls
Evergreen Building, Suite B-40
College of Southern Idaho
PO Box 1238
Twin Falls, ID 83303
(208) 736-2101 • (208) 282-4840
http://www.isu.edu/twinfalls/

Idaho State University has offered courses in the Twin Falls area since the 1960s. As part of the university mission to serve southern Idaho students, a resident center was established in Twin Falls in 1981. The center was moved in 1992 to the Evergreen Building on the College of Southern Idaho campus, which also houses two state-of-the-art distance learning classrooms and a student computer laboratory networked with the Idaho State University campus in Pocatello. Three professionals and support staff advise students with curriculum questions and act as general advocates for commuting students.

http://www.isu.edu/twinfalls/
Idaho State University-Twin Falls offers programs leading to one doctoral, four master’s, and five baccalaureate degrees from the Colleges of Arts and Letters, Education, and Health Professions. Idaho State University-Twin Falls provides the upper-division and graduate work on a rotating schedule, while the general education requirements and most other lower-division courses are available through CSI. University professors and highly qualified local adjunct instructors ensure that course quality is equal to that found on the Pocatello campus.

An interactive telecommunications system has broadcast classes live from Pocatello to CSI since 1990. Courses in anthropology, biology, corporate training, education, English, geosciences, health education, history, library science, mass communication, nursing, pharmacy, political science, psychology, rhetorical studies, social work, sociology, women studies, and vocational education have all been presented in this way. Regularly scheduled courses are enhanced by courses Idaho State University delivers to area school districts for teacher development. Workshops and seminars in specific professional development areas are also available.

Access to Internet, email, and a large variety of software augments the Idaho State University student experience in a 20-station computer lab networked with the main campus. Twin Falls area Idaho State University students who have home computers with modems may access the network with a local phone call. Free computer workshops are routinely scheduled in the lab.

Other services include registration, fee payment, and assistance with university forms and information. In addition, a student commuter bus operates between Twin Falls and Pocatello.

Alumni Association and Foundations

**Alumni Association**

[www.isu.edu/alumni](http://www.isu.edu/alumni)  
admissions@isu.edu

The mission of the Idaho State University Alumni Association is to promote the welfare and to advance the objectives of Idaho State University through the sustained involvement of its alumni by providing philanthropic, intellectual, and social opportunities.

The association is governed by a board of directors and administered through the office of Alumni Relations, 554 S. 7th Avenue, Pocatello, in the H. F. Magnuson House.

Specific goals are to identify alumni and friends to assist Idaho State University in strengthening support from its constituencies, to inform alumni and friends about Idaho State University, to provide for the efficient management of the Alumni Association, and to involve and motivate alumni and students to maintain their affiliation and support of Idaho State University.

The officers and directors meet three times a year with the director of alumni relations, who is appointed by the university administration.

**Idaho State University Bengal Foundation**

The Idaho State University Bengal Foundation is a nonprofit organization formed to raise money for athletic scholarships. The main fund raising activities include an annual auction, scholarship fund drive, athlete-to-athlete phone-a-thon, several golf tournaments, and other special events held throughout the year.

The Bengal Foundation was officially formed in September of 1976. It is governed by a board of directors and administered through the office of the Bengal Foundation located in Holt Arena. For information on becoming a member, contact The Bengal Foundation at (208) 282-2397.

**Idaho State University Foundation, Inc.**

The Idaho State University Foundation is a nonprofit corporation established in 1967 under the laws of the state of Idaho.

The mission of the Idaho State University Foundation is to stimulate voluntary private support from alumni, parents, friends, corporations, foundations, and others for the benefit of Idaho State University.

The foundation raises and manages private resources supporting the mission and priorities of the university, and provides opportunities for students and a degree of institutional excellence unavailable with state funding levels.

The foundation is dedicated to assisting the university in the building of the endowment to address, through financial support, the long-term academic and other priorities of the university.

The foundation is responsible for identifying and nurturing relationships with potential donors and other friends of the university; soliciting cash, securities, real and intellectual property, and other private resources for the support of the university; and acknowledging and stewarding such gifts in accordance with donor intent and its fiduciary responsibilities.

The Idaho State University Foundation is located on the first floor of the Administration Building.

Division of Continuing Education and Conference Services

Jeff Hough, Interim Director  
Division of Continuing Education and Conference Services  
1001 N 7th Ave. Stop 9062  
Pocatello ID 83209-8062  
(208) 282-3155  
extendedlearning@isu.edu  
http://www.isu.edu/conteduc

Continuing Education coordinates programs throughout Idaho State University as well as area businesses. Programs include courses and workshops for faculty and staff, professionals, businesses and educators, with emphasis on administering a wide variety of educational experiences for the community and surrounding region.

The general mission of Continuing Education is to provide high quality leadership and support services for continuing professional education and lifelong learning activities for all ages held throughout the university’s service territory, with special emphasis on teacher education, health professions, and arts and sciences. Program sites in Idaho include Pocatello, Idaho Falls, Twin Falls, Ketchum/Sun Valley, and Meridian. Specific programs are also
held nationally. Offerings include credit and non-credit programs, evening and weekend programs, short courses, web conferences, seminars, institutes, youth enrichment programs, customized training and conferences. Continuing Education administers the National Continuing Education Unit (CEU) (see below) in conjunction with the International Association for Continuing Education and Training. More than 15,000 people participate annually in 400 activities.

Programs served by Conference Services include the annual Idaho Conference on Health Care, Early Childhood Conference, Intermountain Conference on the Environment, and coordination of web conferences such as those produced by the National University Telecommunications Network (NUTN), PBS/Adult Learning Systems (ALS), and Worldwide Lessons in Leadership.

ISU’s Division of Continuing Education, in partnership with Gatlin Education Services (GES), offers hundreds of engaging online courses for personal enrichment and/or professional development in a variety of industries and fields. For more information, visit http://www.isu.edu/conteduc/.

For a list of course offerings, to make suggestions for course offerings or potential instructors, or other desired information, write or telephone the address given above.

**CEU Program**

The Continuing Education Unit is an internationally accepted method for quantifying the value of noncredit continuing education activities (defined as quality instruction that does not carry academic credit). Each contact hour in an approved workshop, in-service, conference session, short course or training program is recorded as 1/10 CEU. These do not accumulate for college credit. Noncredit continuing education programs that offer CEUs are most frequently sponsored by associations, agencies, educational institutions, business and industry for the benefit of members, registered participants, employees, etc. It communicates to participants the value that the sponsoring group places upon professional development, information updating, retraining and lifelong learning. There is a recording fee of $20 per class to create a permanent transcript that is then available through the Idaho State University Registrar’s Office upon written request.

### New Knowledge Adventures and Friends for Learning

Under the direction of the former Elderhostel organization, now known as Road Scholar, Idaho State University has developed these programs for Idahoans 50 years and older, featuring member-directed, peer-led programs throughout the fall and spring semesters, and short courses in a wide variety of areas. Members join for one semester at a time and all programs are open to them in Pocatello (New Knowledge Adventures [http://www.isu.edu/dce/nka]) and Idaho Falls (Friends for Learning [http://friendsforlearning.com]).

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### Idaho Residency Requirements for Fee Payment

See [http://www.isu.edu/areg/residency/residencyInfo.shtml](http://www.isu.edu/areg/residency/residencyInfo.shtml) for the most complete and current information regarding residency requirements. Residency for tuition purposes is governed by Idaho Code § 33-3717 and the residency rules of the State Board of Education. Although a full-time regularly-enrolled resident student is not required to pay tuition while enrolled at Idaho State University, students are charged fees for educational costs excluding the cost of instruction in accordance with the Idaho State System of Higher Education “Notice to Nonresidents of the State of Idaho.”

A student is a “resident” for purposes of fee payment if he or she:

1. has a parent or court-appointed guardian currently domiciled in Idaho who has maintained a bona fide domicile in Idaho for at least one year prior to the opening day of the term for which the student enrolls; or
2. receives less than 50% financial support from parents or guardians who are not residents of Idaho and has continuously resided in Idaho for at least 12 months prior to the opening day of the term for which the student enrolls and has established a bona fide domicile in Idaho primarily for purposes other than educational; or
3. is a graduate of an accredited secondary school in the state of Idaho and is enrolled in a college or university in Idaho during the semester immediately following such graduation regardless of the residence of his/her parents or guardians; or
4. is the spouse of an Idaho resident or person who qualifies for Idaho residency; or
5. is (or his/her spouse, parent or guardian is) an active duty member of the United States armed forces stationed in Idaho and the student receives 50% or more financial support from parent or guardian; or
6. is (or spouse, parent or guardian) an active duty member of the United States armed forces stationed in Idaho and the student receives 50% or more financial support from parent or guardian; or
7. is (or spouse, parent or guardian) an officer or enlisted member of the Idaho National Guard and the student receives 50% or more financial support from parent or guardian; or
8. is (or spouse, parent or guardian) separated, under honorable conditions from the United States armed forces (a certified copy of the DD-214 separation papers must be provided) after at least two years of active duty service and has Idaho as the home of record in service or elects Idaho as his/her intended domicile within one year of separation and enters a college or university in Idaho within one year of the date of separation and the student receives 50% or more financial support from parent or guardian; or
9. is a member of any one of the Idaho Native American Indian tribes (Coeur d’Alene, Shoshone-Paiute, Nez Perce, Shoshone-Bannock, Kootenai, or Eastern Shoshone), regardless of current domicile.

Any individual who has been domiciled in the state of Idaho, has qualified as a resident and would otherwise be qualified under the provisions of this statute and who is away from the state for a period of less than 30 months and has not established legal residence elsewhere provided a twelve (12) month period of continuous residency has been established immediately prior to departure is considered an Idaho resident for purposes of fee payment.

**Direct specific questions to:**

Idaho State University
Office of the Registrar
921 S 8th Ave Stop 8196
Pocatello, ID 83209-8196
(208)-282-2661
A “nonresident” student shall include:

1. Any student attending an institution in this state with the aid of financial assistance provided by another state or governmental unit or agency thereof. This non-residency status shall continue for one (1) year after the completion of the semester for which such assistance is last provided.

2. Any person who is not a citizen of the United States of America, who does not have permanent or temporary resident status or does not hold “refugee-parolee” or “conditional entrant” status with the U.S. Immigration and Naturalization Service or is not otherwise permanently residing in the U.S. under color of the law and who does not also meet and comply with all applicable requirements for establishing residency as covered under these provisions.

Establishing a New Domicile in Idaho:

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 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.

Residency decisions for fee payment purposes are made by the Office of the Registrar.

This notice provides for appeal from a final determination denying residency status in the following way:

Appeal may be initiated by the filing of an action in the District Court of Bannock County wherein Idaho State University is located; an appeal from the District Court shall lie as in all civil actions.

Normal Idaho residency requirements shall be in force for students who apply for some special graduate and professional programs. These include but are not limited to the Idaho Dental Education Program (IDEP), the WAMI (Washington, Alaska, Montana, Idaho) Regional Medical Education Program; the University of Utah College of Medicine; the WOI (Washington, Oregon, Idaho) Regional Program in Veterinary Medicine; the Western Interstate Commission for Higher Education (WICHE) Professional Student Exchange Programs (medicine, optometry and occupational therapy) and Graduate Education Program.

Students who initially enroll at Idaho State University as nonresidents and later wish to be considered for a change in residency status must submit an Idaho Residency Determination Worksheet (IRDW) with the appropriate documentation. IRDWs intended to change residency status for the current term are accepted through the tenth day of classes.

NOTE: It is the responsibility of the person requesting reclassification of residency status to provide clear and convincing evidence of bona fide domicile in Idaho.
Graduate Catalog

Graduate Catalog 2015-2016
Volume 69

Dr. Cornelis Van der Schyf, Dean

Graduate School
Idaho State University
921 South 8th Avenue, Stop 8075
Pocatello, ID 83209-8075
(208) 282-2150 FAX (208) 282-4847
Museum Building, 4th Floor, Room 401

Idaho State University subscribes to the principles and laws of the State of Idaho and federal government, including applicable executive regulations pertaining to civil rights, and all rights, privileges, and activities of the University are made available without regard to race, creed, color, sex, handicap, or national origin. The University is an Equal Opportunity and Affirmative Action employer. Evidence of practices which are not consistent with such policies should be reported to the Office of the President of the University.

Policy Statement Concerning Graduate Catalog Contents

Catalogs, bulletins, course or fee schedules shall not be considered as binding contracts between Idaho State University and students. The University reserves the right at any time, without advance notice, to: (a) withdraw or cancel classes, courses, and programs; (b) change fees schedule; (c) change the academic calendar; (d) change admissions 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.

Students enrolled in a program that is closed, relocated, or discontinued should be given notice of the closure as soon as is practical. Notwithstanding any other provision of State Board of Education policy, University policy, or University catalog statements to the contrary, arrangements should be made for enrolled students to complete affected programs in a timely manner and with minimum interruptions. When there is a similar program within the institutions governed by the Board, an affected student will be provided with information on transferring to that program, although admission to any such program is contingent upon the availability of a position and the student meeting all applicable admission requirements. If there is no similar program available within the institutions governed by the Board or the student is not able to gain admission to a similar program, the University will make reasonable efforts to place the student in a related or comparable program within the University. If none is available, the University will make reasonable efforts to assist the student in locating to another program at the University or elsewhere for which he or she is qualified.

Graduate School Mission Statement

The Graduate School promotes and supports excellence in graduate education. In realizing this mission, the Graduate School acts to recruit, support, retain and matriculate scholars, researchers and practitioners educationally empowered as critical thinking citizens and agents of innovation, opportunity and change.

Graduate School Vision Statement

The Graduate School aspires to be a leading driver of high quality graduate education, and is dedicated to the embodiment of academic and creative excellence, resulting in scholars, researchers and practitioners committed to and capable of continually broadening the scope of academic discourse, discovery and innovation.

Graduate School Informed Beliefs

1. Integrity
2. Inquiry and Innovation
3. Academic and Creative Excellence
4. Collaboration
5. Social Justice Awareness & Advocacy
6. Inclusiveness
7. Interdisciplinary Research
8. Lifelong Learning
9. Quality Customer Service

Graduate Council Membership 2014-2015

<table>
<thead>
<tr>
<th>Area</th>
<th>Name</th>
<th>MailStop</th>
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<tbody>
<tr>
<td>Arts and Letters: Humanities/Fine Arts</td>
<td>Dr. Tom Klein</td>
<td>8056</td>
<td>282-2308</td>
</tr>
<tr>
<td>Arts and Letters: Social/Behavioral Sciences</td>
<td>Dr. Jeremy Thomas</td>
<td>8114</td>
<td>282-5737</td>
</tr>
<tr>
<td>Business</td>
<td>Dr. Neil Tocher</td>
<td>8020</td>
<td>282-3588</td>
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<tr>
<td>Education</td>
<td>Dr. Jane Strickland</td>
<td>8059</td>
<td>282-3490</td>
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<tr>
<td>Division of Health Sciences: Health Professions</td>
<td>Dr. Elizabeth Horn</td>
<td>1311 E. Central Dr., Meridian, ID 83643</td>
<td>373-1718</td>
</tr>
<tr>
<td>Division of Health Sciences: Pharmacy</td>
<td>Dr. Barbara Mason</td>
<td>1311 E. Central Dr., Meridian, ID 83643</td>
<td>373-1843</td>
</tr>
<tr>
<td>Science and Engineering: Engineering</td>
<td>Dr. Hossein Mousavinezhad</td>
<td>8060</td>
<td>282-3292</td>
</tr>
<tr>
<td>Science and Engineering: Natural Sciences</td>
<td>Dr. Glenn Thackray</td>
<td>8072</td>
<td>282-3871</td>
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<tr>
<td>At-Large Appointment</td>
<td>Jamie Mayo</td>
<td>8075</td>
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<tr>
<td>Graduate Student Representative</td>
<td>Rhonda Woodruff</td>
<td>8075</td>
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</tr>
<tr>
<td>Presiding</td>
<td>Dr. Cornelis J. Van der Schyf</td>
<td>8075</td>
<td>282-2490</td>
</tr>
<tr>
<td>Administrator</td>
<td>Executive Director, Sponsored Programs</td>
<td>8075</td>
<td>282-2665</td>
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Graduate Council Membership 2014-2015
# Graduate Programs

## Arts and Letters

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<tr>
<td>Communication and Rhetorical Studies</td>
<td>M.A. in Communication</td>
</tr>
<tr>
<td>English</td>
<td>M.A., Ph.D., TESOL Certificate</td>
</tr>
<tr>
<td>Global Studies and Languages</td>
<td>Graduate Certificate in Spanish for the Health Professions; M.A. Interdisciplinary Studies</td>
</tr>
<tr>
<td>History</td>
<td>M.A. in Historical Resources Management</td>
</tr>
<tr>
<td>Political Science</td>
<td>M.A., M.P.A., D.A.</td>
</tr>
<tr>
<td>Psychology</td>
<td>Ph.D. in Experimental Psychology and Ph.D. in Clinical Psychology</td>
</tr>
<tr>
<td>Sociology</td>
<td>M.A.</td>
</tr>
<tr>
<td>Theatre</td>
<td>M.A.</td>
</tr>
</tbody>
</table>

## Business

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Administration</td>
<td>M.B.A. (Accounting, Finance, Informatics, Management, Marketing, Health Care Administration emphasis areas), Certificate in Business Administration, MAcc</td>
</tr>
</tbody>
</table>

## Education

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organizational Learning &amp; Performance</td>
<td>Master of Organizational Learning &amp; Performance, M.Ed. in Instructional Technology, Ph.D. in Instructional Design</td>
</tr>
<tr>
<td>School Psychology and Educational Leadership</td>
<td>Ed.D. in Educational Leadership (P-12 Education Administration concentration, Higher Education Administration concentration); Ed.S. in Education Administration; M.Ed. with P-12 Educational Administration Emphasis; Ed.S. in School Psychology; M.Ed. in Special Education (School Psychology option)</td>
</tr>
<tr>
<td>Sport Science and Physical Education</td>
<td>M.P.E. in Athletic Administration, M.S. in Athletic Training</td>
</tr>
<tr>
<td>Teaching and Educational Foundations</td>
<td>M.Ed. in Elementary Education; M.Ed. in Secondary Education; M.Ed. in K-12 Education (Music Education); Ed.S. in Special Education, M.Ed. in Special Education; M.Ed. in Early Childhood Education; M.Ed. with Literacy emphasis; M.Ed. in Deaf Education</td>
</tr>
</tbody>
</table>

## Science and Engineering

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
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</thead>
<tbody>
<tr>
<td>Biological Sciences</td>
<td>M.S., Ph.D. in Biology (Botany and Zoology options); M.S., Ph.D. in Microbiology; M.N.S., D.A. in Biology</td>
</tr>
<tr>
<td>Chemistry</td>
<td>B.S./M.S., M.N.S.</td>
</tr>
<tr>
<td>Geosciences</td>
<td>M.S., M.N.S., M.S. with Environmental Geoscience Emphasis, Geo Technology Certificate, M.S. in Geographical Information Science; Ph.D. in Geosciences</td>
</tr>
<tr>
<td>Mathematics</td>
<td>M.A. in Mathematics for Secondary Teachers, M.S., D.A.</td>
</tr>
<tr>
<td>Physics</td>
<td>M.S., M.N.S., Ph.D. in Applied Physics</td>
</tr>
<tr>
<td>Physics</td>
<td>M.S. with Health Physics Emphasis</td>
</tr>
<tr>
<td>Engineering</td>
<td>M.S. in Civil Engineering</td>
</tr>
<tr>
<td>Engineering</td>
<td>M.S. in Environmental Engineering</td>
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<tr>
<td>Engineering</td>
<td>M.S. in Measurement and Control Engineering</td>
</tr>
<tr>
<td>Engineering</td>
<td>M.S. in Mechanical Engineering</td>
</tr>
<tr>
<td>Engineering</td>
<td>M.S. in Nuclear Science and Engineering</td>
</tr>
<tr>
<td>Engineering</td>
<td>M.S. in Environmental Science and Management</td>
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<tr>
<td>Engineering</td>
<td>Ph.D. in Engineering and Applied Science</td>
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## Division of Health Sciences

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
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</thead>
<tbody>
<tr>
<td>Audiology</td>
<td>Au.D.</td>
</tr>
<tr>
<td>Speech-Language Pathology</td>
<td>M.S.</td>
</tr>
<tr>
<td>Counseling</td>
<td>M.Coun (Marital, Couple and Family Counseling; Mental Health Counseling; School Counseling; Student Affairs Counseling), Ed.S. (Counseling), Ph.D. (Counselor Education and Counseling)</td>
</tr>
<tr>
<td>Medical Laboratory Sciences</td>
<td>M.S.</td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>M.S.</td>
</tr>
<tr>
<td>Health and Nutrition Sciences</td>
<td>M.H.E.</td>
</tr>
<tr>
<td>Health and Nutrition Sciences</td>
<td>M.P.H.</td>
</tr>
<tr>
<td>Nursing</td>
<td>M.S., D.N.P., Ph.D.</td>
</tr>
<tr>
<td>Occupational Therapy</td>
<td>M.O.T.</td>
</tr>
<tr>
<td>Physical Therapy</td>
<td>D.P.T.</td>
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<tr>
<td>Physician Assistant Studies</td>
<td>M.P.A.S.</td>
</tr>
<tr>
<td>PharmD</td>
<td>See Undergraduate Catalog for Description</td>
</tr>
</tbody>
</table>
Graduate Admissions

- Admission Requirements for Doctoral Programs (p. 59)
- Admission Requirements for Other Programs (e.g., Master’s degrees) (p. 59)
- The Application Process (p. 60)
  - Application Deadlines
  - Notification of Admission
  - Re-enrollment or Re-Admission of Graduate Students
- Registration (p. 60)
  - Restricted Registration
  - Continuing Registration for Graduate Students
  - Registration without Permission
- Admission Requirements for Unclassified (Non-Degree seeking) Students (p. 61)
- Admission of Last-Semester Seniors (p. 61)
- Admission Requirements for Professional Development (p. 61)

Idaho State University invites applications for admission to Graduate School from students holding baccalaureate degrees from any regionally accredited colleges or universities in the United States, or with equivalent preparation acquired in another country. Prospective applicants may apply as degree-seeking or non-degree-seeking students. Non-degree-seeking students include those seeking certification, professional growth, or strengthened backgrounds for various professional and industrial occupations.

Admission Requirements for Doctoral Programs

Admission to doctoral programs varies depending upon the program of study. Potential applicants are encouraged to read the appropriate sections of the Graduate Catalog and/or check Department websites for individual program variations. Please see individual department sections for GPA & GRE requirements for doctoral programs.

Admission Requirements for Other Programs (e.g., Master’s degrees)

Degree-seeking students must meet the following requirements:

1. A baccalaureate degree or higher from a college or university regionally accredited in the United States or its equivalent from a school in another country. All official transcripts must be sent either in printed form or electronically from the institution(s) directly to the Graduate School (students cannot mail in their transcripts). Email address: graddean@isu.edu. Mailing address: Graduate School, Idaho State University, 921 S. 8th Ave, Mail Stop 8075, Pocatello, ID 83209-8075.

2. In instances where a standardized test is required, official GRE (Graduate Record Examination)/MAT (Miller Analogies Test)/GMAT (Graduate Management Admissions Test) score reports are required. Student copies are not acceptable. To register for the GRE, contact either the GRE-ETS, Box 6000, Princeton, New Jersey, 08541-6000, http://ets.org/gre or the ISU Counseling and Testing Center (208) 282-2130. To register for the GMAT/MAT (for GMAT: http://www.mba.com/us or http://www.pearsonassessments.com/postsecondaryeducation/graduate_admissions/mat.html for the MAT), contact the Idaho State University Counseling and Testing Center. GRE/GMAT/MAT scores are used for other purposes in addition to admission. Most departments/colleges/divisions also use these scores as part of the criteria for awarding graduate assistantships, fellowships, or scholarships. Other parts of the campus may also use these scores in the process of awarding scholarships. Students at Idaho State University may take these tests at the Counseling and Testing Center. Special study sessions are available at the University in the Student Success Center (208) 282-3662 to aid the student in preparing for the GRE/GMAT. All scores should reflect testing within the last five years or be subject to review by the Dean of the Graduate School. With certain programs as exceptions (see below) applicants who already hold a master’s degree or higher from a regionally accredited university may not be required to submit GRE, MAT, or GMAT test scores.
The admission process is initiated as follows:

The Application Process

1. Applications for admission are online (www.isu.edu/graduate) by clicking on the Apply Now button.

2. Applicants applying as degree-seeking students must request that each application form, or if a non-degree-seeking student, the college/division and department in which the student intends to take courses. Applicants must clearly indicate the desired graduate program on the application form, or if a non-degree-seeking student, the college/division and department in which the student intends to take courses.

3. Recommendation for admission by the department, division or college offering the desired degree program. Please see individual department sections of this catalog for additional requirements.

4. Approval for admission by the Dean of the Graduate School.

The Application Process

The admission process is initiated as follows:

1. Applications for admission are online (www.isu.edu/graduate) by clicking on the Apply Now button.

2. Applicants applying as degree-seeking students must request that each application form, or if a non-degree-seeking student, the college/division and department in which the student intends to take courses. Applicants must clearly indicate the desired graduate program on the application form, or if a non-degree-seeking student, the college/division and department in which the student intends to take courses. Applicants must clearly indicate the desired graduate program on the application form, or if a non-degree-seeking student, the college/division and department in which the student intends to take courses.

3. Applicants must include a $55 non-refundable processing fee with each application form. The files of students who do not pay the required application fee will not be processed for admission.

4. Some programs require additional information (e.g., letters of recommendation); please contact the specific department and review individual departmental sections of this catalog for additional requirements. These documents get sent directly to departments.

5. Applicants must clearly indicate the desired graduate program on the application form, or if a non-degree-seeking student, the college/division and department in which the student intends to take courses.

6. GRE/GMAT/MAT may be required for degree-seeking applicants at the discretion of the department. Only official score reports are accepted.

7. Additional requirements for degree-seeking last semester seniors are listed and international students are described under those headings on the following pages.

Application Deadlines

Please note that some programs have earlier deadlines than those listed; please contact the program director or department chair for specific details. Priority deadlines for application forms to be completed and returned to the Graduate School are: April 1st for summer semester enrollment; April 1st for fall semester enrollment; and November 1st for spring semester enrollment, or the following Monday should these dates fall on a weekend. Typically, international students cannot begin their enrollment at Idaho State University in the summer semester.

Notification of Admission

Applicants will receive a notification letter from the Graduate School regarding their admission status. Admission to Graduate School allows a student to enroll in graduate courses in the specified department and college/division. It does not imply admission to courses in other departments. Only those admitted as degree-seeking students may assume that they are permitted to seek an advanced degree in the discipline/department that approved the admission. Non-degree-seeking students who are admitted are permitted to take graduate courses, but this admission does not imply they will later be approved for admission as a degree-seeking student.

Re-Enrollment or Re-Admission of Graduate Students

Graduate students who have been admitted to Graduate School may enroll for graduate or undergraduate classes by preregistration or registration without further application activity if they enroll within two years from the beginning of the term for which they were accepted. Graduate students who fail to enroll during the two year period, or more restrictive period of the department, must reapply for admission and pay the processing fee. Students who were not enrolled in the previous term may register for the current term. However, some departments may have more restrictive requirements, and admission may be valid for only a particular semester or year. Students should contact departments to determine these more restrictive requirements.

Registration

All applicants who have received notice of admission into Graduate School may register during the appropriate registration periods prior to each semester. On-line registration is available to admitted students. To expedite completion of the registration procedure, all recipients of graduate teaching assistantships, graduate fellowships, and/or scholarships to be applied toward tuition and fees must preregister.

Restricted Registration

Any graduate student receiving a grade of C+ or below in two graduate courses on his or her program of study, or whose GPA falls below 3.0, will automatically be blocked from registering for additional courses. For the block to be removed, the student’s department or college/division must communicate to the Graduate
School in writing its wish to allow the student to continue in the program. Please note that some programs vary in their restrictions with regard to this policy; contact the graduate program director or department chair for specific details.

**Continuing Registration for Graduate Students**

Graduate students who have registered for one or more credits of master's project, master's paper, master's thesis, or doctoral thesis or dissertation (usually, courses numbered 6650, 6651, 6699, 7750, or 8850) must be registered for at least one graduate credit during subsequent semesters, including each summer semester, until they have completed their degrees. Students who, for compelling reasons, wish to interrupt their work on projects, theses, or dissertations may request, in writing, a leave of absence from the Graduate School.

Graduate students who fail to meet the continuing registration requirement will be judged to have dropped out of their programs and will no longer enjoy access to university resources, including the library and computer facilities. In order to regain access to university resources, students will be required to reapply to the Graduate School and be readmitted. A corollary of this requirement is that a graduate student must be registered for at least one graduate credit in order to take a final oral examination or be processed for graduation. Any student who registers for the required credit and then subsequently drops the credit will be considered in violation of this policy.

**Registration without Permission**

Students who register for graduate courses in violation of any restriction printed in the Graduate Catalog or written on their Admission notification, or who register for graduate courses after receiving a letter of dismissal from the department or college/division that admitted them, will be dropped from these graduate course(s) as soon as the violation is discovered.

**Unclassified (Non-degree Seeking) Status**

Individuals holding a bachelor's degree who desire to take courses for graduate credit for personal or professional enrichment but who do not want to pursue a graduate degree are eligible to apply for admission to Unclassified (non-degree seeking) status. Students who are admitted to Unclassified status are allowed to register for a maximum of 9 graduate credits per semester. Since an Unclassified student is not seeking a degree, course and/or program advising, except on an informal basis if requested, will not be provided.

**Admission Requirements for Unclassified (Non-Degree seeking) students**

Individuals who apply for Unclassified status admission must submit the following information and meet the following requirements:

1. A baccalaureate degree, or higher, from a regionally accredited educational institution in the United States, or the equivalent from an educational institution in another country. Non-degree seeking applicants must provide a transcript showing proof of degree. Non-degree seeking students who have already earned a master's or doctoral degree from a regionally accredited institution or equivalent higher degree acquired in another country, need only have the copy of advanced degree/s transcript submitted in lieu of a bachelor's degree transcript.

2. A copy of a transcript indicating that a baccalaureate degree, or higher, was awarded, including the date the degree was awarded.

3. Meet the following Grade Point Average (GPA) requirement: An earned grade point average (GPA) of 2.50 or higher on all undergraduate courses taken during the last 60 ± undergraduate semester credits (90 ± quarter credits), regardless of the institution at which the credits were earned. This GPA may be different from the final transcript GPA and/or different from the GPA on all upper-division credits. In the case of those students who have not completed the baccalaureate degree, the GPA will be calculated on the last 60 credits at the time of application.

4. A properly completed application form.

5. A $25.00 non-refundable application processing fee that will not be waived.

Academic departments may have additional requirements and/or may restrict enrollment of Unclassified graduate students to specific courses. Unclassified graduate students must meet all prerequisites for each class in which they wish to enroll.

If an Unclassified student wishes to pursue a graduate degree at Idaho State University, the student must (1) meet the requirements for admission as a Classified student, and (2) complete all aspects of the Classified status application procedure for a specific degree program, detailed above in the “Admission Requirements” section, including submission of official transcript(s) and payment of the Classified application processing fee (the amount paid for Unclassified application will not apply for Classified application).

After admission as a Classified student, students may petition the Dean of the Graduate School to transfer course work taken while in Unclassified status to a degree program. This petition must have the written support of the degree program for each course. The total number of such credits transferred shall not be more than 30% of the total credits for the program of study required for the particular degree.

**Admission of Last-Semester Seniors**

Seniors in residence at Idaho State University may register for no more than 6 graduate credits during the semester or summer session in which they will complete the work for a bachelor’s degree at Idaho State University. This option is reserved for outstanding seniors who are seriously considering attending Idaho State University for graduate education. This registration must be approved by the course instructor, by the student’s advisor, and the department chairperson. ONLY COURSES NUMBERED 5500-5599 MAY BE TAKEN WITH THIS OPTION.

If a senior admitted to graduate study under this provision fails to complete graduation requirements for a bachelor’s degree, all graduate credits earned revert to undergraduate credit. The student’s load, including both graduate and undergraduate credit, may not exceed 16 credits, or 9 credits in the case of summer school. A senior selecting this option must file an Application for Admission with the Graduate School when he/she requests permission to take graduate level courses. Application deadlines for admission of last-semester seniors are the same as those for degree-seeking graduate students.

PharmD students may apply and be admitted to the Graduate School after completing 120 credits if they meet all application requirements.

**Admission Requirements for Professional Development Students - K-12 Teachers (5597 Courses)**

The Graduate School recognizes the need for K-12 teachers certified in Idaho to improve their professional capabilities. In most cases, the courses are workshops or short courses that can be taken in a compressed time period. These types of courses are “advanced” with respect to the students who enroll, but are not courses that a particular discipline offers to a student with the goal of earning an advanced degree. Therefore, professional development courses are offered by many departments to meet the perceived need of individuals, and are treated differently in the following respects:

1. Students may enroll in professional development courses offered under the 5597 number without the necessity of being admitted to Graduate
School. However, they must hold a baccalaureate degree from an accredited institution at the time they enter the class or receive special permission from the Dean of the Graduate School if they are last-semester seniors at Idaho State University.

2. The credits earned will not count toward an advanced degree nor may they be petitioned to count at a later date.

3. There is no limit to the number of 5597 credits that a student may earn.

4. All instructors of 5597 courses must have an advanced graduate degree.

5. For each 5597 course in which students enroll, students must certify that they possess a baccalaureate degree and agree to the conditions by which they are permitted to register for the course.

6. Students who have been admitted into the Graduate School are permitted to take 5597 courses.

7. Departments shall determine if and when professional development courses are to be offered with their prefix.

**Students (5598P Courses)**

The Graduate School recognizes the need for individuals to improve their professional capabilities. In most cases, the courses can be taken in a compressed time period. These types of courses are “advanced” with respect to the students who enroll, but are not usually courses that a particular discipline offers to a student with the goal of earning an advanced degree. Therefore, professional development courses are offered by many departments to meet the perceived need and are treated differently in the following respects:

1. Students may enroll in professional development courses offered under the 5598P number without the necessity of being admitted to Graduate School. However, they must hold a baccalaureate degree from an accredited institution at the time they enter the class or receive special permission from the Dean of the Graduate School if they are last-semester seniors at Idaho State University.

2. The credits earned will not count toward an advanced degree unless a petition is filed within three years of the last day of the course. The petition must have the following documentation: (1) A copy of the instructor’s curriculum vita, (2) A copy of the course syllabus (including a list of achievement measures), (3) A copy of the class list (with grades). (The Office of Continuing Education, and/or the department or college offering the course will provide materials not otherwise available to the student).

3. While there is no limit to the number of 5598P credits that a student may earn, a maximum of three credits may be petitioned for use to satisfy elective credits in the student's program of study. 5598P courses may not be substituted for “required” courses.

4. All instructors of 5598P courses must have an advanced graduate degree.

5. For each 5598P course in which students enroll, students must certify that they possess a baccalaureate degree and agree to the conditions by which they are permitted to register for the course.

6. Students who have been admitted into the Graduate School are permitted to take 5598P courses. If they desire to use 5598P credits in their degree program, a petition must be filed for each course in accordance with the procedures described.

7. Departments shall determine if and when professional development courses are to be offered with their prefix.

**International Admissions**

Applications for admission to Graduate School are processed in the Graduate School. Applications will not be processed until the processing fee has been received. In addition to the admission requirements listed previously, international students must meet the following conditions:

1. As a step toward obtaining a U.S. visa, international students must submit a financial statement to the Graduate School verifying that they will be able to support themselves financially for a minimum of one year while attending Idaho State University. This document must consist of a statement or letter from a bank indicating that funds are available and accessible. The amount of money available to the student must be listed on the financial statement. A graduate assistantship or fellowship awarded by a department or college/division may be used as part of this amount.

2. International students who have not graduated from an accredited college or university in the United States and whose native language is not English, normally must achieve satisfactory scores on the Test of English as a Foreign Language (TOEFL) or on the International English Language Testing System (IELTS). Satisfactory TOEFL requirements for Classified admission are: (1) Internet-based test (iBT): a total score of 80 with a score of at least 20 on each Section of the iBT (graduate assistants who teach courses must score 23 or above on the Speaking Section); or (2) Computer-based test: a total score of 213 with a score of at least 21 on Section 1 (Listening Comprehension) on the Computer-based test; or (3) Paper-based test: a total score of 550 with a score of at least 55 on Section 1 (Listening Comprehension) on the Paper-based test. Information about the TOEFL, including test dates and locations in international countries, can be obtained from Educational Testing Service (ETS) at http://www.ets.org. Satisfactory IELTS performance for Classified admission includes scoring 6.5 or higher on the total band score. Graduate assistants who teach courses must score 6.5 or above on the speaking test component. An international student may also meet the English language proficiency requirement by achieving a Level 112 from an ELS Language Center. PHOTOCOPIES OF TOEFL OR IELTS SCORES WILL NOT BE ACCEPTED.

3. International students may not enter the United States for graduate study without a U.S. Immigration (I-20) form. This form will be issued by the International Programs Office after the student is approved for admission by the Dean of the Graduate School. International students are urged to remain in their own countries until they receive notice of acceptance.

4. International students transferring from a school within the United States must be “IN STATUS” with Immigration and Naturalization Services to be issued an I-20 form from Idaho State University. A transfer form will be sent after the application has been received, to be completed as verification of acceptable immigration status.

If you have questions or need additional information, please contact the Graduate School at (208)282-2270, FAX number (208)282-4847.

**ISU’s Intensive English (IEI) Program:**

Graduate students may be exempted from the English Proficiency Conditions stated above if they have successfully completed ISU’s Intensive English Institute’s program of study with a grade of B or better in each of the Advanced English II courses, receive a recommendation from an IEI instructor, and fulfill all other requirements from the department in question. Graduate teaching assistants whose native language is not English may also be required to submit a filmed presentation and a writing sample to the desired department for approval.
General Information and Policies

Policy Statement Concerning Graduate Catalog Contents

Catalogs, bulletins, course or fee schedules shall not be considered as binding contracts between Idaho State University and students. The University reserves the right at any time, without advance notice, to: (a) withdraw or cancel classes, courses, and programs; (b) change fees schedule; (c) change the academic calendar; (d) change admissions 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.

Students enrolled in a program that is closed, relocated, or discontinued should be given notice of the closure as soon as is practical. Notwithstanding any other provision of State Board of Education policy, University policy, or University catalog statements to the contrary, arrangements should be made for enrolled students to complete affected programs in a timely manner and with minimum interruptions. When there is a similar program within the institutions governed by the Board, an affected student will be provided with information on transferring to that program, although admission to any such program is contingent upon the availability of a position and the student meeting all applicable admission requirements. If there is no similar program available within the institutions governed by the Board or the student is not able to gain admission to a similar program, the University will make reasonable efforts to place the student in a related or comparable program within the University. If none is available, the University will make reasonable efforts to assist the student in locating to another program at the University or elsewhere for which he or she is qualified.

Summary of Procedures for Graduate Degrees

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Under Direction of</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application &amp; Fee</td>
<td>Graduate School</td>
<td>No later than April 1 for summer semester enrollment; April 1 for fall semester enrollment; and November 15 for spring semester enrollment (or the following Monday, should these dates fall on a weekend).</td>
</tr>
<tr>
<td>Selection of an Advisor</td>
<td>Department Chair</td>
<td>Varies by program.</td>
</tr>
<tr>
<td>Selection of a Committee</td>
<td>Advisor</td>
<td>Varies by program.</td>
</tr>
<tr>
<td>Preliminary Examinations</td>
<td>Department Chair or Advisor</td>
<td>Not required by some programs.</td>
</tr>
<tr>
<td>Final Program of Study/Admission to Candidacy</td>
<td>Advisor, Department Chair, Dean of Academic College/Division, Dean of Graduate School</td>
<td>Submit prior to the semester of intended date of graduation. Classified status required.</td>
</tr>
<tr>
<td>Comprehensive Examinations</td>
<td>Advisor or Department Chair</td>
<td>Varies by program.</td>
</tr>
<tr>
<td>Application for Graduation</td>
<td>Graduate School</td>
<td>Not later than the 2nd week of the final semester. For summer graduation, June 15th.</td>
</tr>
<tr>
<td>Thesis or Dissertation</td>
<td>Student and Advisor</td>
<td>Not later than 2 weeks prior to oral defense.</td>
</tr>
<tr>
<td>Final Draft to Committee</td>
<td>Advisor, Committee, and Dean of Graduate School</td>
<td>Not later than 2 weeks prior to end of final semester.</td>
</tr>
<tr>
<td>Thesis or Dissertation Defense</td>
<td>Advisor, Committee, and Dean of Graduate School</td>
<td>Not later than 2 weeks prior to end of final semester.</td>
</tr>
<tr>
<td>Oral Examination (Non-Thesis)</td>
<td>Advisor, Committee, and Dean of Graduate School</td>
<td>Not later than 2 weeks prior to end of final semester.</td>
</tr>
<tr>
<td>Payment of Application Fee for Graduation/Diploma</td>
<td>Office of Registration/Records</td>
<td>Not later than 2 weeks prior to end of final semester.</td>
</tr>
<tr>
<td>Submission of Final Thesis/Dissertation</td>
<td>Dean of Graduate School</td>
<td>Within 2 weeks following oral examination for thesis/dissertation copies.</td>
</tr>
</tbody>
</table>

Classifications of Degree-Seeking Graduate Students

- Classified Status (p. 63)
- Classified (with Performance Requirements) [Classified (w/PR)] Status (p. 64)
- Change from Classified (w/PR) to Classified Status (p. 64)
- Unclassified (Non-degree Seeking Students) Status (p. 64)

Classified Status

Graduates of regionally accredited institutions who have earned grade point averages of 2.5 or higher for the last 60 credits taken at the undergraduate level, are eligible, upon submission of official GRE/GMAT/MAT scores as appropriate, to be admitted to Classified status in graduate master's programs. Doctoral students must meet individual department GPA and standardized test requirements. See department sections of this catalog for complete information.

The College of Business requires the GMAT. The Department of Counseling and the College of Education accept the MAT in lieu of the GRE. Please see the department sections for this information.
Classified (with Performance Requirements) [Classified (w/PR)] Status

Classified (with Performance Requirements) [i.e., Classified (w/PR)] status is a transitional status, and is not a valid status for a student to graduate.

In order to graduate, a student must have Classified status (see the following section "Change from Classified (w/PR) to Classified Status").

A department/college/division may, at its discretion, recommend admission for graduate students in a degree program with Classified (w/PR) status to ascertain their ability to do graduate work within a particular curriculum. Students admitted to Classified (w/PR) status are those who may not have satisfactorily met all admission requirements.

Classified (w/PR) status also may be recommended by a department for students whose credentials do not meet specific departmental requirements. NOTE: Students admitted to Classified (w/PR) status should ascertain their eligibility for federal financial aid. Such students are not eligible to receive Idaho State University graduate assistantships or Non-resident tuition waivers.

Change from Classified (w/PR) to Classified Status

The following criteria must be met by the student before Classified (w/PR) status can be changed to Classified:

1. The student must complete at least nine graduate credits and maintain a 3.0 GPA or higher;

2. If the GRE/GMAT/MAT was not taken by the student prior to admission to Classified (w/PR) status, the student must take the GRE/GMAT/MAT specified in the Admission notification.

Upon completion of the above two criteria, a request to change the student’s status to Classified may be submitted to the Dean of the Graduate School. The following steps must be followed to accomplish this change:

1. At any time after meeting the above criteria, a student may initiate an Approval for Change of Student Status in the Graduate School. The department/college/division may also initiate the change and should do so by written request when the student has met the required criteria.

2. The change from Classified (w/PR) to Classified status must be approved by the Dean of the Graduate School.

If a student admitted to Classified (w/PR) status fails to meet the conditions for admission stated on the Admission notification, the student’s admission may be revoked.

Unclassified (Non-degree Seeking Students) Status

Individuals holding a bachelor’s degree who desire to take courses for graduate credit for personal or professional enrichment but who do not want to pursue a graduate degree are eligible to apply for admission to Unclassified (non-degree seeking) status. Students who are admitted to Unclassified status are allowed to register for a maximum of 9 graduate credits per semester. Since an Unclassified status student is not seeking a degree, course and/or program advising, except on an informal basis if requested, will not be provided.

Course Levels, Credits and Grading

• Course Levels (p. 64)
  The “Additional Work” Requirement to Receive Graduate Credit in Courses Offered as 55xx

• Credits (p. 65)
  Semester Credit Limits
  Time Limits
  Master’s and Educational Specialist Degrees
  Out-of-Date Credits
  Credit Time Limits for Doctoral Degrees
  Auditing Graduate Courses
  Full Time Graduate Status

• Grading (p. 66)
  Incomplete Grades

Course Levels

Courses numbered 66xx and 77xx are for students admitted into Graduate School only. Courses numbered 55xx also provide graduate credit (except 5597 and 5598P, see the sections entitled "Admission Requirements for Professional Development Students"). However, undergraduate students may be enrolled in these courses; the undergraduate counterpart will be designated as 44xx. Extra work is required of graduate students enrolled in 55xx courses (see next section). Applicability of 55xx courses to degree requirements is determined by the department offering the degree. Credit by examination (course challenge) is not permitted in graduate programs. Credit is not generally granted toward a graduate degree for 55xx courses when the corresponding 44xx course was taken at the undergraduate level.

The “Additional Work” Requirement to Receive Graduate Credit in Courses Offered as 55xx:

The Graduate School expects instructors to require specific work to be done in a graduate level course to justify graduate credit being given. For students to receive graduate credit in those courses designated at the 55xx level, specific and evaluated activities and performances must be identified in the course syllabus. Below is a suggested list of activities that an instructor might use to meet this requirement.

1. An additional scholarly activity such as:
   a. integrative term paper(s);
   b. substantive report(s) that may be one of the following: survey, analysis and report; laboratory investigation and report; library research and report;
   c. participation in a significant regional or national meeting (e.g., poster session, panel discussion, paper presentation).

2. Classroom activities that are beyond those required of undergraduates and are evaluated:
   a. special presentation of some subject;
   b. provision of leadership on discussion of some significant topic in the classroom;
   c. classroom activity that is evaluated and not required of undergraduates.

3. Examinations: Special examinations that are different from those given to undergraduates and are more demanding than those given to undergraduates. Such exams should be those that require greater performance at a higher cognitive level, such as interpretation, synthesis, and evaluation.
Credits

For a master’s degree, a minimum of 30 credits in approved course work, including thesis credits if required, must be completed. Except in the cases of the M.N.S., M.A.M.S.T., and M.P.A. degrees, a master’s degree student must complete at least fifteen 6600-level credits. Credit requirements for doctoral degrees vary by program.

A credit hour in graduate courses requires:

The credit, sometimes referred to as semester credit or semester hour, is a unit of academic work. One credit is defined to require fifty minutes in a class each week for one semester (or the equivalent).

One semester credit hour in academic courses requires (1) fifty minutes in class each week for one semester (which assumes approximately twice this amount of time in study and preparation outside the classroom), or (2) approximately two and one-half hours in laboratory each week for a semester, or (3) equivalent combinations of (1) and (2). For purposes of equivalency calculations, a semester is assumed to be sixteen weeks. Short term courses of one week (five days) or more require time in class, laboratory, and preparation equivalent to the above for a total of 45 clock hours per credit.

Semester Credit Limits

The maximum number of credits obtainable in a semester is 16, including courses taken at the undergraduate level. In a summer semester, a student may earn a number of credits equal to the number of weeks enrolled plus two, and the total number of summer semester credits may not exceed 12 (e.g., a student taking classes for eight weeks may earn up to 10 credits). Graduate Assistants may register for no more than 12 credits per semester.

Students who, because of exceptional circumstances, want to take more than the maximum number of credits, must request permission in writing from the Dean of the Graduate School. They must also have support in writing from their advisor, and the graduate program director or chairperson of their department.

Thesis or dissertation credits are not awarded to the student until after completion and final approval by the examining committee. At this time, the advisor reports a grade of S or U for all previous thesis/dissertation registrations. The student may register for thesis/dissertation credits any semester she/he is enrolled as a degree-seeking student, subject to the approval of the student’s advisor and department chair or program director, but the letters IP (in progress) are recorded on the transcript in place of a grade for all such registrants until final approval is obtained. Usually, thesis credits are limited to 6 that can count toward a degree on a Master’s level program of study.

Time Limits

Master’s and Educational Specialist Degrees

All requirements for a master’s degree (except the MBA degree) or educational specialist degree, must be completed within 8 years preceding the student’s graduation. An extension of time may be obtained for good cause with the approval of the Dean of the Graduate School.

The time limit for the MBA degree is 5 years for any course used to meet MBA II, elective, or emphasis area graduation requirements. Please refer to the College of Business section of this catalog.

Out-of-Date Credits

All credits applied to a master’s degree or to an educational specialist degree must have been taken within 8 years immediately prior to granting of the degree unless it can be shown that the course work taken more than 8 years earlier covers material that has not changed substantially during the intervening time, or that the student has been able to remain current in the topics covered in the course. Evidence that the older coursework is still appropriate must be supported and approved in writing by the student’s advisor and department chair, and submitted with a petition to the Dean of the Graduate School.

Credit Time Limits for Doctoral Degrees

The doctorate is a research and/or performance degree and signifies that the holder has the competence to function independently at the highest level of endeavor in the chosen profession. Hence, the number of years involved in attaining or retaining competency cannot be readily specified. Rather, it is important that the doctoral student’s competency be assessed and verified in a reasonable period of time prior to conferral of the degree.

The comprehensive examination is the method of assessing whether the student has attained sufficient knowledge of the discipline and supporting fields in order to undertake independent research or practice. It is expected that the examination will occur after all course work has been completed and language or other requirements satisfied, and that it consists of a series of examinations covering all areas specified in the program of study.

Because the comprehensive examination attests to the academic competence of the student who is about to become an independent researcher or practitioner, the examination should not precede the awarding of the degree by too long a period of time. Consequently, doctoral candidates are allowed 5 years in which to complete remaining degree requirements. In the event a student fails to complete the doctorate within 5 years after passing the comprehensive examination, an extension of time can be obtained by:

1. The student getting a specified set of requirements from the student’s committee that states in writing what must be done to make the candidate up-to-date in the discipline. These new requirements for obtaining an extension may include the necessity to repeat parts or all of the comprehensive examination;

2. The student must then submit a petition to the Dean of the Graduate School for the extension and provide the written documents showing the additional requirements established by the student’s committee justifying the requested extension.

Auditing Graduate Courses

The Graduate School does not endorse the auditing of courses at the graduate level due to the expectations of the rigor of graduate study. At the graduate level, students need to be substantially engaged with the material, so that they can master the intricacies and be able to evidence knowledge about the topic. The professor provides information, guidance, mentoring, and critique of the material so that the student is experienced with the totality of the material. Auditing a graduate course does not provide the opportunity for engagement of the material and the instructor’s focus to the level necessary to facilitate the depth of learning required in graduate education.

Full Time Graduate Status

Nine Graduate Level Credits constitutes full time graduate status.

Continuing Registration for Graduate Students

Graduate students who have registered for one or more credits of master's project, master's paper, master's thesis, or doctoral thesis or dissertation (usually, courses numbered 6650, 6651, 6699, 7750, or 8850) must be registered for at least one graduate credit during subsequent semesters, including each summer semester, until they have completed their degrees. Students who, for compelling reasons, wish to interrupt their work on projects, theses, or dissertations may request, in writing, a leave of absence from the Graduate School. Academic clock does not stop during the violation of the continuous enrollment policy.
Graduate students who fail to meet the continuing registration requirement will be judged to have dropped out of their programs and will no longer enjoy access to university resources, including the library and computer facilities. In order to regain access to university resources, students will be required to reapply to the Graduate School and be readmitted. A corollary of this requirement is that a graduate student must be registered for at least one graduate credit in order to take a final oral examination or be processed for graduation. Any student who registers for the required credit and then subsequently drops the credit, will be considered in violation of this policy.

Grading

A 3.0 GPA for the courses listed on the program of study is required for any graduate degree or certification at Idaho State University. A grade of C+ or lower indicates questionable performance at the graduate level. However, some departments may accept a C+ grade in one or two courses as long as the minimum overall 3.0 GPA is maintained. C+ or lower grades may cause departments/colleges/divisions to dismiss students from a graduate degree program. A GPA lower than a 3.0 can also result in dismissal.

Idaho State University uses a graduated letter grading system to indicate the instructor's evaluation of a student's performance in a course. These letter grades are converted to a numerical value for computing a student's semester and cumulative grade point averages. At the beginning of each course, an instructor should inform students of the criteria to be used in evaluating their performance through the class syllabus or other written means.

The grade of A is the highest possible grade; grades of D+ or lower will not be allowed for graduate work. Plus (+) or minus (-) symbols are used to indicate grades that fall above or below the letter grades. The grades of A+, F+, and F- are not used. For purposes of calculating grade point averages and grades, the plus (+) increases the grade’s point value by .3, and minus (-) decreases the grade’s point value by .3 (e.g., a grade of B+ is equivalent to 3.3, and A– is 3.7). A student's work is rated in accordance with the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Numerical Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
<td>excellent performance</td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
<td>excellent performance</td>
</tr>
<tr>
<td>B+</td>
<td>3.30</td>
<td>good performance</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
<td>good performance</td>
</tr>
<tr>
<td>B-</td>
<td>2.70</td>
<td>good performance</td>
</tr>
<tr>
<td>C+</td>
<td>2.30</td>
<td>inadequate performance</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
<td>inadequate performance</td>
</tr>
<tr>
<td>C-</td>
<td>1.70</td>
<td>inadequate performance</td>
</tr>
<tr>
<td>D+</td>
<td>1.30</td>
<td>unacceptable performance</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
<td>unacceptable performance</td>
</tr>
<tr>
<td>D-</td>
<td>0.70</td>
<td>unacceptable performance</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
<td>unacceptable performance</td>
</tr>
</tbody>
</table>

Courses in which A, A-, B+, B, or B- grades are earned are acceptable toward a graduate program and graduation requirements, unless specifically excluded for a particular requirement, course, program, or degree. Courses in which C+, C, or C- grades are earned might be used toward program and graduation requirements in some programs; two such grades will place the student on semester-by-semester review. Grades of D+, D, D-, or F may not be used to satisfy graduation requirements. No credits are awarded for any course in which an F grade is earned.

All thesis and dissertation credits and some research courses are graded on a satisfactory (S) or unsatisfactory (U) basis. Departments/colleges/divisions may grade additional graduate courses with the S/U system with approval of the Graduate Council. IP (in progress) grades are given for those students who have initiated but not completed their thesis, dissertation, or research work. No graduate courses will be offered on a Pass/No Pass (P/NP) basis.

For “IP” (in progress) courses, instructors are responsible for processing a Change of Grade after the completion of all relevant course work. In the case of thesis and dissertation work, there may be multiple IP credits to be changed once the thesis/dissertation has been completed and fully approved.

As noted elsewhere in the Catalog, “I” (incomplete) grades must be completed and the Change of Grade processed by the instructor within 1 calendar year of the awarding of the “I” grade. Failure to change the “I” grade within this time period will result in the “I” grade becoming permanent.

For letter graded courses, prefixes, titles, and level (e.g., 4400/5500) are transcripted as originally registered once the semester is closed (i.e., the end of the semester within which the course was first registered for by the student). An example: A graduate student mistakenly registers for course ABC4400 for the Fall 2020 semester. During that semester a petition request to change the ABC4400 registration to ABC5500 is submitted. The change of grade request cannot be submitted for consideration. However, once the Fall 2020 semester has concluded, the ABC4400 course can not be changed.

With permission of the relevant department, students may repeat a course in which they received a grade lower than an A. In such cases, the last grade received shall be the grade used in the calculation of the program of study GPA.

Incomplete Grades

An Incomplete grade (I) may be awarded at midterm or semester end. At midterm, an Incomplete indicates the student, through illness or other excusable absence, has missed so much work the instructor cannot assign a regular grade. An Incomplete grade at midterm is not a final grade. An Incomplete grade may, at the option of the instructor, be given at the end of the semester only when a student has satisfactory performance within three weeks of the end-of-semester examination period.

The instructor must submit a Course Completion Contract along with the grade report for that class. The Course Completion Contract must be signed by the student and the instructor stipulating the assignment(s) required to finish the course within the allowable time period. A copy of the Contract is to be given to the student, a copy retained by the instructor, a copy sent to the Graduate School, and the original sent to the Registrar’s Office.

Incomplete work must be completed within one (1) calendar year from the date such grade is given, but an instructor could specify a shorter time period. A change of grade must be submitted by the faculty member or the Incomplete will become permanent.

To receive credit for a course in which an Incomplete grade has become permanent, the entire course must be repeated.

Petitions to deviate from the incomplete grade policy will not be allowed except under extraordinary circumstances (e.g., serious, long-term illness).

Academic Warning/Probation

Graduate students are placed on academic warning when their grades and/or GPA are unsatisfactory. Graduate students are required to have a minimum overall 3.0 GPA. Anything below a 3.0 GPA will place graduate students on academic warning and can also result in dismissal. One or more Cs grades or below can also place graduate students on academic warning and can also result in dismissal. Students who are on Academic Warning or Probation are limited in the number of credits they are allowed to take (13 for Graduate Students). These credit limits are absolute and are not petitionable.
Transfer of Credits

Master's Degrees
All graduate credits must be earned as Idaho State University resident credits except for the following:

In all master's degree programs, a total of 9 semester credits may be transferred from a regionally accredited institution. Transfer of credits from a regionally accredited institution are acceptable only if the courses are specifically approved by the Graduate School and the academic department of Idaho State University when the final program of study is submitted. In these instances, only the credit hours transfer, not the grades.

Official transcripts to be used for transfer of credits in a degree program must be received by the Graduate School before application for a degree will be approved.

Intra-institutional Transfer
Transfer of Credits from Unclassified to Classified Status
Students may petition the Dean of the Graduate School to transfer course work taken while admitted to Unclassified status to a degree program. The total number shall not be more than 30% of the total credits of the program of study required of each student for the degree.

Residency Credits
All credits that are to be applied to an advanced degree must be earned as resident credits or accepted for transfer as described in the Transfer of Credits section. Resident credits are those earned through the main Idaho State University campus, the Idaho State University-Idaho Falls campus, the Idaho State University-Meridian campus, and/or the Idaho State University-Twin Falls campus.

Transfer of Credits from One Program to Another
There are no limits to the number of Idaho State University credits that may be applied toward a master’s degree program or certificate program that were originally earned in a different degree program if:

1. The student was not awarded a degree in the original program, and
2. The department approves the transfer of such credits and the courses taken meet the requirements for the degree approved by the Graduate Council.

There are no limitations with respect to electives that exceed the requirement for the degree.

 Departments and/or colleges/divisions may allow students to apply up to 9 semester credits earned at Idaho State University to two master’s degrees with Graduate School approval.

Doctoral Programs
Departments may accept credits by transfer in total or in part from a master’s degree earned at Idaho State University or at another accredited institution regardless of age of the courses. See section on “Time Limits” for further discussion of this policy.

Advisors and Examining Committees
All Examining Committees shall consist of an odd number of members. These members normally must be members of the Graduate Faculty and approved by the Dean of the Graduate School. Appointments to Examining Committees of non-faculty members or of faculty members not on the Graduate Faculty must be approved by the Dean of the Graduate School. A listing of Graduate Faculty is contained in this catalog.

Usually, when a student is admitted to graduate school, a temporary advisor is assigned. In some cases, the department chairperson or graduate program director serves in this capacity for all incoming graduate students. Following departmental procedures and regulations, a permanent advisor who will be responsible for helping the student to finalize the program of study is then selected.

For most master’s degree options, a second member is selected from the student’s department to serve on the examining committee with final approval by the Dean of the Graduate School. At the doctoral level, more than one departmental faculty member, in addition to the advisor, typically serves on the examining committee.

A third or, in the case of doctoral committees, a fifth member of the examining committee, called the Graduate Faculty Representative (GFR), is approved by the Dean of the Graduate School. The GFR must be a current member of the Graduate Faculty and must be selected from outside the discipline the student is studying. The GFR may not be secured from a separate discipline from a yoked department. The GFR represents the Graduate School on the examining committee and is responsible for reporting the results of graduate examinations to the Dean of the Graduate School. The Graduate School welcomes suggestions from the student or department regarding candidates for the GFR.

Conflict of Interest of Graduate Faculty
Faculty are expected to conduct themselves professionally in their evaluation of graduate students, and are expected to exclude themselves from evaluation of graduate students with whom impartiality may be jeopardized by considerations that are not academic.

Procedure for Changing a Major Advisor
When a graduate student seeks a change in his/her major advisor, the following procedure must be followed:

1. The student must submit to the academic unit head or graduate program director, as appropriate, a written request for change of major advisor. This request shall contain the rationale on which the request is based and may, if the student wishes, propose a specific replacement.
2. If the unit head/program director and the current advisor accept the rationale, and if an appropriate new advisor acceptable to the student is secured, the unit head/program director will submit the proposed new appointment to the Dean of the Graduate School for approval.
3. Should the unit head/program director or the current major advisor not agree to the proposed change and the conditions thereof, and if no compromise acceptable to all parties can be reached, the matter shall be arbitrated by the unit graduate faculty (or its designated committee). Such arbitration may need to consider the question of ownership of data from research already undertaken by the student under the major advisor’s supervision, similarly whether another appropriately specialized major advisor is available for the student. The unit head/program director will notify the Dean of the Graduate School of the decision reached by the department graduate faculty or its designated committee.

4. Any appeal of the department’s decision by the student shall be directed to the Dean of the Graduate School.

Changes to or Vacancy in Major Advisor or Committee Member

1. Major Advisor terminating employment with Idaho State University
   a. Upon the announcement of a major advisor’s resignation from Idaho State University, the primary responsibility for determining the new advisor for the graduate student will lie with the student and the department administering the program. If possible and desirable to all parties, the original Major Advisor can be retained temporarily on the department graduate faculty in order to remain on the committee and advise the student to degree completion. His/her role on the committee will also be negotiated by the student and the department. If it is not possible or desirable for the advisor to remain part of the committee, the department chair, the department graduate program director, and/or the department faculty will consult with the student and identify a new advisor. The Graduate School will be apprised of the process and the decision, and will ensure the process is fair for the student while maintaining rigorous standards in the program.
   b. If the department’s resolution is unsatisfactory to the student, the student may appeal to the Graduate School. The Dean of Graduate Studies, in consultation with the department, the Graduate Council, and the Graduate Faculty Representative (if one has been assigned), as necessary, will determine the student’s advising status.
   c. Among the advising options available to the student are the following:
      i. If the student is well advanced and nearing completion of his/her project, s/he may remain at ISU and complete his/her degree, without a new Program of Study.
      ii. If possible and desirable, the advisor may be retained on the department’s graduate faculty for the time required for the student to complete the degree, not to exceed three years.
      iii. The student may request to be re-assigned to a new major advisor from within the Program. A student currently paid from a major advisor’s extra or intramural funds will be awarded a stipend subject to available program resources, in consultation with the Dean of the Graduate School and the relevant Graduate Program Director and Department Chair.
      iv. In the case of doctoral students, if programmatically available, the student may instead complete a thesis and examination for a Master’s Degree before exiting the Program. Decisions as to the desirability of these options will be made based on the progression of the student in his/her research project and how much time remains before completion of the work.
   v. The student may leave ISU with the departing major advisor.

2. In the event of the death or physical or psychological incapacitation of the major advisor, resulting in an inability to fulfill the required advisory duties to the graduate student, the same procedure will apply (except, of course, i.c.iii).

3. A student-initiated change of major advisor must be submitted to relevant Graduate Program Director and Department Chair as per the current Policy “Procedure for Changing a Major Advisor” (2012-2013 Graduate Catalog, p. 13).

4. In the event a student is unable to form a committee or install a chair/major advisor for their thesis/dissertation, the student is thus unable to move forward with their degree requirement. The student may have two options to consider:
   a. Withdraw from the academic program if they are not able to move forward with the thesis/dissertation requirement.
   b. Apply to change academic programs, thus encountering a new set of requirements.
   c. Among the advising options available to the student are the following:
      i. If the student is well advanced and nearing completion of his/her project, s/he may remain at ISU and complete his/her degree, without a new Program of Study.
      ii. If possible and desirable, the advisor may be retained on the department’s graduate faculty for the time required for the student to complete the degree, not to exceed three years.
      iii. The student may request to be re-assigned to a new major advisor from within the Program. A student currently paid from a major advisor’s extra or intramural funds will be awarded a stipend subject to available program resources, in consultation with the Dean of the Graduate School and the relevant Graduate Program Director and Department Chair.
      iv. In the case of doctoral students, if programmatically available, the student may instead complete a thesis and examination for a Master’s Degree before exiting the Program. Decisions as to the desirability of these options will be made based on the progression of the student in his/her research project and how much time remains before completion of the work.
   v. The student may leave ISU with the departing major advisor.

Program of Study, Candidacy, Application for a Degree

Program of Study
A Program of Study must be submitted to and approved by the Graduate School by the third week of the semester in which a student intends to graduate. The Program of Study will list all requirements that must be completed in order to receive the degree or certificate.

If the requirements for the degree or certificate being sought change during a student’s program, the student is entitled to follow those requirements in effect at the time of admission, or the student may elect to follow newer requirements.

Candidacy for Doctoral Degrees
Admission to candidacy for doctoral degrees occurs after the student has passed a preliminary/qualifying examination that is usually administered early in the program; or when substantially all course work has been completed and the comprehensive examination has been passed.

Students seeking doctoral degrees must submit a Program of Study to the Graduate School upon completion of examinations, along with a letter verifying advancement to candidacy, noting the candidate’s successful examination completion; but no later than the third week of the semester in which they intend to graduate. The Program of Study lists all requirements that must be completed in order to receive the doctoral degree.

Application for a Degree
Within the first three (3) weeks of the fall or spring semester in which the student expects to complete work for the degree, or the last day of the spring semester for completion during the summer semester, an application for graduation must be filed with the Graduate School.

The application and a diploma processing fee of $20 must be paid at this time. If the student does not complete requirements during this semester, an updated
application must be submitted for the subsequent semester and a $20 reprocessing fee paid to the Graduate School.

Degree applicants must submit all official transcripts before applying for a degree. Official transcripts to be used for transfer of credits into a degree program must be received before the application for a degree will be processed.

Examinations

All graduate students are required to complete a final examination. Final examinations are scheduled by departments after receiving approval of the student’s program of study and reported to the Graduate School. All examinations must be completed at least two (2) weeks before the end of the semester in which the student plans to graduate. All graduate requirements must be completed prior to or at the end of the semester during which final examinations are held.

Students writing theses/dissertations/DA scholarly activities are given final oral examinations (typically a thesis/dissertation/DA defense). Others are usually given both written and oral examinations.

Oral examinations are open to all members of the Graduate Faculty as observers. Oral examinations are not open to non-Graduate Faculty without permission of the advisor and the Dean of the Graduate School. When students are required to make presentations as part of the examination process, these presentations will be advertised and open to the public.

Following the oral exam, the committee meets in closed session to determine the outcome of the examination. The student passes the exam if a majority of the committee so votes. Otherwise, the student fails the exam. For students failing the oral exam, the Graduate School allows one re-examination. This re-examination is to take place during the subsequent three (3) semesters unless otherwise approved by the Graduate School. If the academic unit involved has a formal re-examination policy that is more stringent, that policy supersedes the Graduate School re-examination policy.

If the candidate’s program requires a thesis/dissertation/DA scholarly activity, copies in substantially final form shall be in the hands of the examining committee at least two (2) weeks before the date scheduled for the oral examination. Oral examinations are to be held at least two (2) weeks prior to the date of graduation. If any committee member questions the adequacy of the substance or form of the thesis/dissertation/DA scholarly activity, the committee as a whole decides if the document and the student are sufficiently prepared for an oral examination.

The major advisor is responsible for reporting grades (using a Change of Grade) for all prior thesis/dissertation/DA scholarly activity registrations of the candidate when the document has been approved by the examiining committee.

After the successful defense of a thesis/dissertation/DA scholarly activity, the student must submit all appropriate documents to the Graduate School within two (2) weeks. Failure to do so may delay graduation. If the required documents are not submitted within one year, the Dean of the Graduate School may declare the defense void and require that it be repeated.

A manual with detailed instruction for thesis/dissertation/DA scholarly activity preparation and clearance (Instructions for Preparing Theses, Dissertation, DA Papers, and Professional Projects) is available on the Graduate School website (http://www.isu.edu/graduate) or from the Graduate School.

If the candidate’s program requires no thesis/dissertation/DA scholarly activity, the department or college/division is responsible for having a written examination on the degree program prepared and administered. If the student’s performance is judged to be satisfactory or if it is determined that deficiencies may be cleared up during the oral examination, the examining committee conducts the oral examination on the scheduled date. Otherwise, the student may be expected to complete subsequent requirements before the oral examination is held. All oral examinations must be completed at least two (2) weeks prior to the date of graduation.

Petitions

A student may petition the Dean of the Graduate School for exceptions to the rules and procedures stated in the Graduate Catalog or for consideration of problems not covered by the stated procedures. Petition forms for graduate students are available only from the Graduate School; undergraduate petition forms will not be accepted.

A student may use the petition form to request:

1. withdrawal from courses after the deadline for withdrawal as stated in the University Calendar;
2. use of credits more than eight (8) years old to count towards a master’s degree;
3. transfer of credits from unclassified to classified status;
4. transfer of more than nine credits from another institution to a master’s degree program at Idaho State University;
5. an extension of the maximum time (eight years) allowed for completion of a master’s degree or educational specialist degree;
6. an extension of the maximum time (five years) allowed for completion of a doctoral degree after comprehensive examinations have been passed;
7. correction of errors or inaccuracies on the student’s official transcript; or
8. any other deviation from Graduate School policy listed in this catalog.

Petition forms may not be used for:

1. appeals of a grade or of dismissal from a program. See the section on “Appeals and Dismissals” in this Catalog;
2. substitutions of courses within degree requirements or waivers of degree requirements. (Exceptions to degree requirements are requested as a part of the approval process for the Program of Study.)

Drop or Withdrawal
Students may voluntarily drop graduate courses until the official drop date listed in the University Calendar. Dropped classes will not appear on a student's transcript. After the official drop date, students may withdraw from one or more courses prior to the withdrawal deadline with a "W" appearing on the transcript. To withdraw from a course or courses after the official withdrawal deadline, students must provide a written request using a Graduate School Petition.

Appeals and Dismissals

- Appeal of a Grade (p. 70)
- Dismissals (p. 71)

Appeal of a Grade

A grade appeal is not designed to evaluate general teaching effectiveness, but rather to determine whether a student was treated in an arbitrary and/or capricious manner by the instructor in regard to a final grade. Graduate students who wish to appeal final grades must use the following procedural format. Appeal of a grade must be made within one semester following the posting of the grade. Grades earned in the spring semester that are to be appealed must not be appealed during the summer, but the appeal process must be initiated in the following fall semester. Documentation of the appeal must be sent to the Graduate School to be placed in the student's file. The Graduate School encourages resolution of appeals at the lowest possible level. Faculty members who are overruled in the appeal process are entitled to the same sequence of appeal as the graduate student.

Midterm grades are not official and may not be formally appealed. Students who wish redress for midterm grades should discuss the grade with the instructor of the course in order to determine a course of action leading up to the final grade.

When a grade appeal involves plagiarism, cheating, or other instances of academic dishonesty, refer also to the "Academic Dishonesty" section of the Graduate Catalog.

Procedures for the Appeal of a Grade

After each step in the procedures for the appeal of a grade, all written appeal request and decision statements must be copied to all involved parties (e.g., the student, the instructor, the department chair, the Dean of the academic college/division).

Step 1: The Instructor of the Course

When a student receives a grade that is judged by that student to be unjustifiably low, normally the first step in the appeal process is to discuss the matter with the instructor of the course. This is an informal meeting to attempt to resolve the issue. If the instructor agrees with the student, the grade is changed using standard procedures. If the instructor supports the original decision, the student may file a formal appeal. The student must prepare a formal written statement in accordance with the format presented in the "Protocol for Appealing a Grade," which is described in the next section. The original of this statement is given to the department chair, and a copy is given to the instructor. In response, the instructor must prepare a written statement explaining the reasons for the grade and submit that statement to the department chair with a copy to the student.

Step 2: The Department Chair

The chair of the department in which the appealed grade was received is charged with reviewing the student’s and the instructor's written statements. The chair may also interview the student and the instructor, and may conduct whatever additional investigation deemed appropriate to help in the decision-making process. The chair must render a decision within 15 working days of receipt of the student's appeal documents.

If the chair sustains the decision of the instructor, the appeal may be taken by the student to the Dean of the academic college/division. If the chair disagrees with the instructor's decision, the chair must forward all appeal documents to the Dean of the academic college/division. Regardless of the decision, the chair must prepare and submit to the Dean of the academic college/division, a written statement that explains the reason for her/his decision with a copy to the instructor and the student.

Step 3: The Dean of the Academic College/Division

The Dean of the academic college/division is next in the formal appeal process. The Dean's first charge is to appoint an impartial committee of graduate faculty members to review all documentation pertaining to the appeal. The Dean will provide copies of all documentation to the committee. In addition to reviewing these documents, the committee should interview both the student and the instructor and may conduct any other investigation deemed necessary. The committee, which is advisory to the Dean, must submit a written statement of its recommendation to the Dean. The Dean should review all documents and recommendations and may interview the student, the instructor, department chair, and conduct any other investigation deemed necessary. The Dean’s decision is to be tendered in writing, and addressed to the student, sent by certified mail (return receipt requested) with copies to the instructor, department chair and chair of the impartial committee. The committee’s deliberation and the Dean’s decision must be completed within 30 working days of receipt of the student's appeal in the Dean’s office. If the decision of the Dean is rejected by the student, the appeal may be taken by the student to the Graduate Council.

Step 4: The Graduate Council via the Dean of the Graduate School

At the request of the student, the Graduate Council will review all appeal documentation and respond with a decision within 30 working days of receipt of the student's appeal. The Graduate Council may interview the student and instructor and carry out any other investigation deemed necessary. Once the decision is made, it is final and will be communicated by the Dean of the Graduate School.

Step 5: Change of Grade Within the Specific College/Division (instructor, department chair, dean)

At any stage where the appeal process is concluded, the last appeal level will process a change of grade, if appropriate, using standard procedures. In instances where the appeal is resolved at the Graduate Council level, the Council’s decision is communicated in writing by the Dean of the Graduate School to the student, and copied to the Dean of the academic college/division, department chair, instructor, and chair of the impartial committee. The Dean of the academic college is responsible for processing the change of grade, if appropriate, using standard procedures upon receipt of Council's appeal decision correspondence.
Protocol for Appealing a Grade

Protocol for appeal of a grade must include the student’s name, department/college, date of the appeal, course title and number, instructor’s name, and grade received in the course. Also included must be the student’s rationale for appeal of the grade. The student should state as succinctly as possible the reasons for making the appeal. The student must also state the remedy he/she is seeking.

Dismissals

Dismissal Policy

A graduate student may be dismissed from a graduate program by a department/college according to the following criteria:

1. If the student receives two or more grades of C+ or below, or
2. If the student fails to meet the continuation standards of the department (including conditions stated in the Admission letter), or
3. If it is the academic judgment of two-thirds of the faculty in the department that the student is not making satisfactory progress in the program, and such judgment is recorded by formal vote.

In all cases the student must be notified in writing by certified mail, return receipt requested, that he/she is dismissed and must be told in the document that he/she has the right of appeal according to the Idaho State University Graduate Catalog. The student should be given a copy of the Graduate Catalog, appropriate catalog pages, or notified that the Catalog is available online or in the Graduate School.

All dismissal communications are to be copied to the department chair, Dean of the academic college, and Dean of the Graduate School.

Students receiving letters of dismissal will automatically be dropped from all graduate courses in the program from which they are being dismissed, regardless of whether they choose to appeal; fees will be refunded in accordance with university policy. A "W" grade will then be entered on the transcript for all graduate courses not completed. Students receiving dismissal letters after the 10th day of classes may petition the Dean of the Graduate School to the student, and copied to the Dean of the academic college and the Dean of the Graduate School.

The initiation of the appeal of the dismissal must occur within 15 working days of the notification of the dismissal, unless the student is appealing dismissal due to receiving two or more grades of C+ or below. In that case, the student may wish to appeal one or more grades before beginning appeal of dismissal (see "Appeal of a Grade” section). If the grade is upheld, and the student now wishes to appeal the dismissal, the student must begin the appeal of dismissal within 15 working days of receipt of the notification of the decision of the grade appeal. If the grade is changed to a B- or above, and the student no longer has two or more grades of C+ or below, the dismissal will be cancelled by the department/college. However, if the dismissal is based on Items 2 or 3, previously listed, the dismissal proceedings may continue. The Graduate School encourages resolution of appeals at the lowest possible level.

When a dismissal involves plagiarism, cheating, or other academic dishonesty, refer also to the “Academic Dishonesty” section of the Graduate Catalog.

Procedures for the Appeal of Dismissal from a Graduate Program

At each level appeal decisions are to be communicated in writing and addressed to the student, sent by certified mail (return receipt requested), and copied to all appropriate level decision persons, and the Graduate School.

Step 1: The Departmental Level

1. The student must request reconsideration in writing using the "Protocol for Appealing Dismissal from a Graduate Program,” which is described in the next section.
2. A majority of the graduate faculty of the department must meet within 15 working days of the filed appeal and must decide by a 2/3 vote of those present to sustain the dismissal, or the dismissal is revoked. If necessary, the meeting of the graduate faculty may include those participating by telephone, email, or video conference. Should it prove impossible during the summer to convene a majority of the graduate faculty, the department chair/program director is required to assemble them in the first 15 working days they are on contract in the fall semester.
3. Either decision (revoke or sustain) is to be explained in writing to the student. Copies of this decision and explanation must be sent to the Dean of the academic college and the Dean of the Graduate School.
4. If the department upholds the dismissal, the student may appeal the decision to the Dean of the academic college. The student must appeal to the dean of the academic college within 15 working days of the receipt of the notification of the department’s decision.
5. If the dismissal is revoked, the department chair shall notify, in writing, the student, the Dean of the academic college and the Dean of the Graduate School, and the student shall be reinstated using standard procedures.

Step 2: The Dean of the Academic College

1. If the student appeals to the Dean of the academic college, then the Dean should review all documents and recommendations and may interview the student, the instructor, department chair, and conduct any other investigation deemed necessary. The Dean must consider the appeal within 30 working days of the student’s filed appeal and must decide to either revoke or sustain the dismissal.
2. Dean Overrules Dismissal. If the dismissal is revoked, the Dean must state in writing the reasons for the overrule and notify the student, the department chair, and the Dean of the Graduate School, and the student shall be reinstated using standard procedures. The graduate faculty of the department may appeal the Dean’s decision to the Graduate Council following the appeal steps listed in this policy.
3. Dean Sustains Dismissal. If the Dean sustains the decision to dismiss, she/he must notify in writing the student, the department chair, and the Dean of the Graduate School.

Step 3: The Graduate Council via the Dean of the Graduate School

1. The student may appeal to the Graduate Council if the Dean of the academic college sustains the dismissal. The student must appeal to the Graduate Council within 15 working days of receipt of the notification of the dean’s decision. This appeal must be in writing.
2. The Graduate Council must consider the appeal within 30 working days of receipt of the student’s appeal. This appeal should include copies of all appeal documents.
3. The Graduate Council may interview the student, graduate faculty, and Dean of the academic college, and conduct any other investigation deemed necessary. The student may have an advisor present during Council’s interview, but this person shall not act in a legal capacity (these are not legal proceedings) and may not address the Council.
4. The Council’s decision to revoke or sustain the dismissal is final.
5. In instances where the appeal is resolved at the Graduate Council level, the Council’s decision is communicated in writing, by the Dean of the Graduate School to the student, and copied to the Dean of the academic college and the department chair.
6. The Council’s decision, with all other documentation, will be kept in the student’s file in the Graduate School.
7. If the decision is to revoke the dismissal, the Dean of the Graduate School will reinstate the student in the program.

Protocol for Appealing Dismissal from a Graduate Program

Protocol for appeal of dismissal from a graduate program must include the student’s name, department/college, and date of the appeal. Also to be included is the rationale for appeal of the dismissal. The student should state as succinctly as possible the reason for making the appeal. The student must also state the remedy he/she is seeking.

Re-Applying After a Dismissal

A student may re-apply to a different program at Idaho State University after being dismissed from their current program.

Academic Dishonesty

Academic dishonesty includes, but is not limited to, cheating and plagiarism. Academic dishonesty at the graduate level is considered a serious offense and may result in dismissal from a graduate program.

When a faculty member suspects a graduate student of academic dishonesty, the instructor should present the evidence to the student and consider the student’s response. If the instructor concludes after consultation with the student that academic dishonesty occurred, the instructor writes a letter to the chair of the department in which the student is seeking a graduate degree, describing the incident. The instructor should include with the letter any evidence used to draw the conclusion that academic dishonesty has occurred (e.g., copies of the student’s written assignment, copies of documents thought to have been plagiarized, etc.), and should state clearly the penalty imposed within the course itself. The penalty should be in proportion to the severity of the offense. If the penalty is to be a failing grade, the instructor should first consult with the chair of the department, and the chair should meet jointly with the student and faculty member to review the incident. The student may appeal the penalty by following the procedures in the Graduate Catalog entitled “Appeal of a Grade.”

The department chair may, in accordance with the policy and procedures of the department, impose the penalty of dismissal from the program. A student may appeal the dismissal by following the procedures in the Graduate Catalog entitled “Appeal of Dismissal from a Graduate Program.”

The chair of the department should send a copy of the instructor’s letter reporting the offense, along with any evidence submitted to the chair, to the student, to the Dean of the academic college in which the student is seeking a graduate degree, and to the Dean of the Graduate School. A copy of the letter is to be placed in the student’s file in the department and in the Graduate School. If the student’s appeal is upheld, the letter and all other records of the accusation of academic dishonesty are to be deleted from the student’s files.

Participation in Classified or Proprietary Research

The Graduate School affirms the policy regarding the participation of graduate students in classified or proprietary research as it is stated in the Idaho State University Patent Policy. To fulfill the University’s obligations as a publicly aided educational institution, University research should serve a public rather than a private purpose and the results should be disseminated on a non-discriminatory basis. The University encourages studies whose results can be freely published. However, the University recognizes that certain proprietary concerns of private research sponsors and the effective commercialization of research outcomes may require limited delays in publication. This policy shall apply to all persons employed by Idaho State University or a component thereof, and to anyone using facilities or funds as outlined in Section V of this policy. This policy, as amended from time to time, shall be deemed to constitute part of the conditions of employment of every employee and of every student. This statement shall be interpreted to mean that students must not be delayed in their program of study up to and including the awarding of the degree and that placement of the finished thesis or dissertation in the library for public access may not be delayed longer than six months.

Interdisciplinary Degrees

- Interdisciplinary Degree Admission Requirements (p. 73)
- Master of Natural Science (p. 73)
- Environmental Science and Management Master's Degree Program (p. 73)
- Study Abroad (p. 73)

Idaho State University offers students the opportunity to pursue an interdisciplinary master’s degree (M.A., M.S., M.N.S., M. Ed.). The degree sought will be Interdisciplinary Studies. Other fields in the title will be the fields of academic concentration.

The requirements include: completion of a minimum of 30 credit hours with a minimum of 10 credits in each of the departments participating. Students must be admitted into such a program by each department that participates. Students must contact each department contemplated to be involved prior to initiating the development of an interdisciplinary program.

Although students must take at least 10 credits in each of the departments participating, departments may, at their discretion, require additional credit hours of the students as a condition of the departmental participation and admission of the student in the program. An initial program of study must be submitted to the Graduate School during the first year of course work.

Requirements for interdisciplinary degrees are the same as for other degree programs. An interdisciplinary thesis may be written with a minimum of three credits and a maximum of five credits in each department. The final oral examination must include a representative from each department and a GFR from a department not involved in the interdisciplinary degree program.
**Interdisciplinary Degree Admission Requirements**

The student must apply to, and meet all criteria for, admission to the Graduate School. Certain departments may also have other admission requirements. Please check with specific departments for further details.

**Master of Natural Science**

Majors in Biology, Chemistry, Geology, and Physics or approved interdisciplinary combinations of the foregoing may lead to the degree of Master of Natural Science. This program is designed to provide subject matter material for those teaching at the secondary level or intending to do so. Requirements include possession of or pursuit of a standard secondary teaching credential. “Pursuit of a standard secondary teaching credential” shall be defined as follows: The following requirements must be completed by the student, or the student must have equivalency in these areas to meet the definition:

If a student enters a M.N.S. program with no equivalent course work in education, the student must take additional credits in addition to 30 graduate credits in the discipline to receive the M.N.S. degree. This requirement involves 12-19 credits, including student teaching, to be completed to receive teacher certification in Idaho. Candidates must complete a program of study in one, two, or three of the areas listed. The committee designing the program of study, in consultation with the student, should be comprised of members from each department involved plus a GFR.

**Financial Support**

The following financial information is a listing of the categories of financial help that may be available to graduate students. However, in many instances specific sources of assistance are available only at certain times of the year and require application with a deadline enforced. With respect to campus-based aid (special non-resident waivers, loans, and college work study), applications should be made the January preceding the fall/spring semester for which aid is desired. To obtain specific details about a particular type of financial assistance, contact the Office of Financial Aid (http://www.isu.edu/finaid), Museum Building, Stop 8077, Idaho State University, Pocatello, ID 83209-8077, (208)282-2756.

- Satisfactory Academic Progress (p. 73)
- Assistantships and Fellowships (p. 73)
- Tuition and Fee Scholarships (p. 74)
- Graduate School Awards (p. 74)
- Non-Resident Tuition Waivers (NRTW) (p. 74)
- Loans and Grants (p. 74)
- Scholarships (p. 75)
- Employment (p. 75)
- Travel Funds (p. 75)
- Thesis and Dissertation Research Costs (p. 75)

**Satisfactory Academic Progress**

To retain financial support as a graduate student, almost all sources of funds require that the student maintain satisfactory academic progress. Requirements include: (1) completion of a prescribed program of study of at least 30 credits at the graduate level approved by a departmental committee selected by the student in consultation with the student’s major professor, and approved by the Dean of the Graduate School; and (2) satisfactory performance on final written and oral examinations. Courses to be counted toward the degree must be 5500-level or above. At least 22 credits must be taken in residence.

**Environmental Science and Management Master's Degree Program**

Students may pursue an M.S. in Environmental Science and Management (ESM) through the College of Engineering. See the description and requirements of this decree in the Department of Civil and Environmental Engineering.

**Study Abroad**

STUA 5500 Study Abroad 9-12 credits: Pre-arranged, planned courses of study at selected academic institutions outside of the United States. The student is responsible for resident credit arrangements with department(s) and the International Programs Office prior to departure. Prefix and course name will be replaced on ISU transcript when study abroad transcript arrives. Graded S/U. REPEATABLE WITH DEPARTMENT PERMISSION.

**Assistantships and Fellowships**

Assistantships and fellowships are awarded at the departmental or college level. Requests for consideration of these awards should be directed to the graduate program director, department chair, or academic dean of a specific academic unit. Most assistantships and fellowships are awarded on an academic year basis. These awards are generally made in the spring for the following academic year. To ensure consideration, a request for such financial support should be made to the academic unit by February or March. Contact individual departments or colleges for specific application deadlines.

Only students admitted as Classified (degree-seeking) students are eligible to apply for graduate assistantships or fellowships. Classified (w/ PR) and Unclassified students are not eligible to receive assistantships. Because full-time graduate assistants are expected to work up to 20 hours per week, the maximum number of graduate credits an assistant may earn in a given semester is 12. Normally, a full-time graduate assistant is expected to carry a minimum of nine graduate credits, which is a full load. DA fellows are expected to carry a minimum of nine graduate credits per semester.

Doctoral graduate assistants ordinarily receive higher stipends than those at the master's level. Full-time graduate assistants and fellows may also be awarded scholarships to cover in-state student fees, student health insurance, and nonresident tuition in addition to the stipend.

A student with a graduate assistantship or fellowship may be employed in addition to the awarded stipend. This employment may only occur with permission of the Dean of the Graduate School and usually must be limited to 10 hours per week. Requests for permission for such employment must be sent in writing by the department chair or graduate program director to the Dean of the Graduate School.

**Graduate Assistantships (GA)**
There are about 200 GAs available across the University; most of these require serving as an instructor for a department. Most assistantships are awarded in the spring semester for the next academic year. Full-time GAs are expected to work up to 20 hours/week for their stipend. Contact the department chair or graduate program director for GA application information.

Graduate assistants who are international students, whose native language is not English, and who have been assigned to teach, must complete an English speaking proficiency examination, usually the Spoken English Assessment Kit (SPEAK), administered at the ISU Student Success Center. In order for an international student to be awarded a GA and teach a course, the student must score 23 or above on the Speaking Section of the TOEFL iBT.

Normally, graduate assistants are involved in classroom instruction, supervision of laboratory sections, grading papers and/or examinations, assisting faculty members in research activities, or other equivalent duties.

Research Assistantships (RA)

Research Assistantships are available across the University through grant monies or other external sources. Conditions of employment and amounts of compensation vary. Questions about such sources of support should be directed to the academic departments or colleges.

Fellowships

Doctor of Art Fellowships are awarded each year to students admitted to and enrolled in Doctor of Arts programs. These fellowships are available in the Departments of Biological Sciences, Mathematics, and Political Science. Most of these fellowships are awarded in the spring semester for the next academic year. Contact the departments for details and applications.

Contact, Location, and Phone Number:

Biological Sciences, Life Sciences Bldg., 282-3765
Mathematics, Physical Sciences Bldg., 282-3350
Political Science, Graveley Hall, 282-2211

Tuition and Fee Scholarships

Departments may offer tuition and fee scholarships as separate awards to graduate assistants, research assistants, and DA fellows. However, these offers are at the discretion of the departments. Non-resident tuition waivers accompany all graduate assistantships and DA fellowships but are offered as separate scholarships.

Graduate School Awards

Graduate Assistantship Teaching Experience (GATE)

The former “At-Large” Graduate Assistantships are renamed: Graduate Assistant Teaching Experience (GATE) Assistantships. GATE assistantships are awarded annually by the Graduate School to departments. Department applications are due December 15, with awards being made in early March annually. GATE Assistantships are one-year Master’s level awards. GATE assistants are required to participate in the GATE Curriculum and the GATE opportunity; and allocate and fulfill their assistantship hour requirements as follows:

- Up to 15 hours/week = Department discretion in support of “teaching”
- Up to 5 hours/week = dedicated to the GATE experience.

The GATE Curriculum requires GATE awardees to: (a) enroll in the GATE Seminar during their first (the Fall) semester of graduate study. The GATE Seminar (GRAD 6600) is a 1 credit graduate seminar, designed and delivered by the Graduate School, focused on enhancing, supporting, and facilitating graduate student exploration of, and success in college-level teaching; and (b) enroll/participate in 1 “elective” graduate-level academic credit (or equivalent) focused on teaching.

GRAD 6600 GATE Seminar 1 credit. A graduate seminar designed and delivered by the Graduate School, focused on enhancing, supporting, and facilitating graduate student exploration of, and success in college-level teaching. Required of GATE TA/GA recipients, but open to all ISU graduate students. Graded S/U. May be repeated.

Non-Resident Tuition Waivers (NRTW)

There are several categories of non-resident tuition waivers. In each case a different contact person or procedure must be followed in applying. It is important to note that these waivers do not cover the required in-state enrollment fees, but only the non-resident tuition. Unless other scholarships are awarded, the student must pay the in-state enrollment fees each semester, including summer.

A limited number of these awards are distributed on a competitive basis. To be eligible for consideration for an NRTW, a graduate student must have Classified admitted status and have submitted GRE/GMAT/MAT scores to the Graduate School. Students should apply using the form supplied by the Graduate School. NRTW applications must be received by May 1st for the following fall semester consideration and by December 1st for the following spring semester. The non-resident tuition waiver may be granted for the academic year or for one semester only. Awards are made after final grades for the current semester are recorded.

Minimum Criteria:

- Must be full-time (at least 9 graduate credits each semester)
- Must be a degree-seeking undergraduate student
- Must have a minimum GPA of 3.00 at the time of award and for award renewal
- Awards are renewable for up to eight semesters based on meeting the minimum criteria
- Preference given to academically superior students in under-subscribed majors
- Programs that currently do not qualify for a NRTW: Counseling, CSD, Nursing, Occupational Therapy, Physician Assistant, & Physical Therapy.

Other Non-Resident Tuition Waivers (NRTW)

Additional waivers beyond those described may be available and require application to the appropriate office. These waivers are awarded on a competitive basis. Contact and application may be made to the offices listed below:

- **International Students** — contact: Division of Student Affairs, RM 184, Hypostyle, phone: 282-2315

Loans and Grants

Loans may be available to graduate students. To inquire about application and eligibility requirements contact the Office of Financial Aid, Room 337, Museum
Federal grant programs administered by the Office of Financial Aid are not available to graduate students. Pell Grants, Supplemental Educational Opportunity Grants, and State Student Incentive Grant Programs are only available to undergraduate students who have not earned a bachelor’s degree. Special non-resident waivers administered by the Office of Financial Aid are available to graduate students who are citizens or eligible non-citizens and meet other financial need criteria.

Research Grants
A small fund in the Office of Research has been created to provide money to graduate students on a competitive basis to conduct thesis or dissertation research. Research proposals with budgets must be submitted to the Office of Research by deadlines established and posted on the Office of Research website (http://www.isu.edu/research). Guidelines for research grant proposal preparation are available from the Office of Research. The Call for Proposals is typically sent out the first Monday in February for the following fall semester, and the last Monday in September for spring semester awards.

Scholarships
Scholarships are available to graduate students in some instances. Announcements of scholarships currently available are posted on the scholarship bulletin board located outside the Office of Financial Aid (Museum Building, Room 327). Please note that some scholarship categories are discontinued at times and new ones are created. Therefore, a regular check at the Office of Financial Aid may be useful to interested students. In addition, there may be off-campus scholarship sources such as parents’ or spouses’ employers, fraternal organizations, churches or businesses, or national foundations. These sources may be discovered by a systematic and careful search by the student. Departments/colleges may also have specific scholarships.

A small number of ASISU scholarships, which are derived from student fee payments, are available to graduate students. These are awarded on a competitive basis. Application materials can be obtained from the offices of Deans of academic colleges, the Office of Research and the Graduate School near the middle of each semester. The Graduate Student Scholarship Committee recommends awardees to the Scholarship Office and the ASISU Senate. Graduate student applications for consideration of ASISU scholarships must be returned to the Graduate School to be considered for a graduate student ASISU Scholarship.

Employment Information
A student with a graduate assistantship or fellowship may be employed for compensation in addition to the awarded stipend. This employment may only occur with permission of the Dean of the Graduate School and usually must be limited to 10 hours per week. Requests for permission for such employment must be sent in writing by the department chair or graduate program director to the Dean of the Graduate School.

Student Employment is now found at the Career Center (http://www.isu.edu/career/). Please contact (208) 282-2778.

Work Study: Work Study positions are part of a financial aid package and are administered through the Office of Financial Aid. A complete list of work study positions is available on their website (http://www.isu.edu/finaid/cws.shtml).

Travel Funds
Graduate students may request aid for travel expenses to present papers on thesis or dissertation research at regional or national meetings. Such requests should be presented only after a paper has been accepted by the official sponsoring organization of the discipline. Funds for such purposes are very limited, and only modest requests are likely to be funded. Funds for such purposes should be requested sequentially from the following contact points:

- Academic Department
- Academic College
- Office of Research
- Graduate School

When submitting written requests to the Office of Research for travel funds, a breakdown of expenses for registration, lodging, travel, and per diem is necessary. See the Office of Research website (http://www.isu.edu/research) for details.

Thesis and Dissertation Research Costs
Some academic departments meet at least some of the costs of thesis and dissertation research. In some instances, such costs may be met by extramural funds obtained by faculty and/or departments. With the exception of the small research grant program listed previously, the Office of Research does not provide funds for such purposes and will refer students to the department chair or dean of the college when such requests occur. Publication costs of theses and dissertations are met by the student unless a faculty member or department chooses to pay such costs with funds available to them.

Oak Ridge Associated Universities (ORAU)

Since 1993, students and faculty of Idaho State University have benefited from ISU’s membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 91 colleges and universities, and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education, the DOE facility operated by ORAU, undergraduates, graduates, postgraduates and faculty may access a multitude of opportunities for study and research. Students may participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are especially designed to increase the number of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing of these programs and other
opportunities, their disciplines, and details on locations and benefits can be found in the ORISE Catalog of Education and Training Programs (http://www.orau.gov/orise/educ.htm), or by calling either of the contact persons below.

ORAU’s Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU’s members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scientist Program, consortium research funding initiatives, faculty research, and support programs, as well as services to chief research officers.

## Graduate Expenses

**Enrollment Fees**

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Fees are subject to change without advance notice by the Idaho State Board of Education prior to the first official day of class. (See “Policy Statement Concerning Graduate Catalog Contents” on the title page of this catalog.)

In general, the expenses for Idaho State University graduate students may be divided into classifications of fees, board, and room. In addition to the fees listed, some courses may require the expense of special uniforms, protective clothing, field trip expenses, lab fees, or instructional costs for remedial courses.

**Graduate Expenses**

- Enrollment Fees (p. 76)
  - Idaho Residency (p. 76)
  - Western Regional Graduate Program (WRGP) (p. 77)
- Other Fees and Charges (p. 77)
- Refund Policy (p. 78)
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In general, the expenses for Idaho State University graduate students may be divided into classifications of fees, board, and room. In addition to the fees listed, some courses may require the expense of special uniforms, protective clothing, field trip expenses, lab fees, or instructional costs for remedial courses.

**Enrollment Fees**

Graduate students will be charged fees as full-time students whenever they enroll for 9 credits or more. For financial aid purposes, graduate assistants/fellows and students receiving other financial aid must enroll for 9 credits per semester to be considered full-time.

Certain programs require full-time summer study. Students in these programs are assessed full-time fees during the summer semester.

2014-2015 Fees and Tuition, including student health insurance fee*:

Please visit http://www.isu.edu/finserv/costinfo.shtml for updated information on fees and tuition.

*The student insurance premium is a part of full-time fees. All full-time paying students are automatically covered under the University’s Student Insurance program. The premium is included in the fee schedule for each semester. Any student with existing health insurance coverage may be exempt from participation in the Student Insurance Plan by completing and filing a Health Insurance Waiver each academic year.

**Part-time Fees**

(2014-2015 Fees)*

<table>
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<tr>
<th>Graduate</th>
<th>$387.00 per credit hour</th>
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<tr>
<td>Graduate Non-Resident</td>
<td>$594.00 per credit hour</td>
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For more information about ORAU and its programs, visit the ORAU website at www.orau.gov (http://www.orau.gov).

Or contact:

Office for Research
(208) 282-2618,

Or contact:

Monnie E. Champion
ORAU Corporate Secretary
(865) 576-3306

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### Idaho Residency

**Requirements for Fee Payment**

Residency for tuition purposes is governed by Idaho Code § 33-3717 and the residency rules of the State Board of Education. Although a full-time regularly-enrolled resident student is not required to pay tuition while enrolled at Idaho State University, students are charged fees for educational costs excluding the cost of instruction in accordance with the Idaho State System of Higher Education “Notice to Nonresidents of the State of Idaho.”

A student is a “resident” for purposes of fee payment if:

1. He/She has a parent or court appointed guardian currently domiciled in Idaho who has maintained a bona fide domicile in Idaho for at least one year prior to the opening day of the term for which the student enrolls; or
2. He/She receives less than 50% financial support from parents or guardians who are not residents of Idaho and has continuously resided in Idaho for at least 12 months prior to the opening day of the term for which the student enrolls and has established a bona fide domicile in Idaho primarily for purposes other than educational; or
3. He/She is a graduate of an accredited secondary school in the state of Idaho and is enrolled in a college or university in Idaho during the semester immediately following such graduation regardless of the residence of his/her parents or guardians; or
4. He/She is the spouse of an Idaho resident or person who qualifies for Idaho residency; or
5. He/She (or his/her parent or guardian) is an active duty member of the United States armed forces (only the U.S. Army, Navy, Air Force or Marine Corps) stationed in Idaho on military orders and the student receives 50% or more financial support from parent or guardian; or
6. He/She is separated, under honorable conditions, from the United States armed forces (a certified copy of the DD-214 separation papers may be requested) after at least two years of active duty service and has Idaho as the home of record in service or elects Idaho as his/her intended domicile within one year of separation and enters a college or university in Idaho within one year of the date of separation; or
7. He/She is a member of any one of the Idaho Native American Indian Tribes (Coeur d’Alene, Shoshone-Paiute, Nez Perce, Shoshone-Bannock, Kootenai, or Eastern Shoshone), regardless of current domicile.
Any individual who has been domiciled in the state of Idaho, has qualified as a resident and would otherwise be qualified under the provisions of this statute and who is away from the state for a period of less than one (1) calendar year and has not established legal residence elsewhere provided a twelve (12) month period of continuous residency has been established immediately prior to departure is considered an Idaho resident for purposes of fee payment.

Direct specific questions to: Idaho State University, Admissions Office, 921 S 8th Ave Stop 8270, Pocatello, ID 83209-8270, (208)-282-4096

A “Non-Resident” Student shall Include:

Any student attending an institution in this state with the aid of financial assistance provided by another state or governmental unit or agency thereof, such non-residency continuing for one (1) year after the completion of the semester for which such assistance is last provided. Any person who is not a citizen of the United States of America, who does not have permanent or temporary resident status or does not hold “refugee-parolee” or “conditional entrant” status with the U.S. Immigration and Naturalization Service is not otherwise permanently residing in the U.S. under color of the law and who does not also meet and comply with all applicable requirements for establishing residency as covered under these provisions.

Establishing a New Domicile in Idaho:

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 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. Residency decisions for fee payment purposes are made by the Admissions Office.

This notice provides for appeal from a final determination denying residency status in the following way:

Appeal may be initiated by the filing of an action in the District Court of Bannock County wherein Idaho State University is located; an appeal from the District Court shall lie as in all civil actions. Normal Idaho residency requirements shall be in force for students who apply for some special graduate and professional programs. These include but are not limited to the Idaho Dental Education Program (IDEP); the WAMI (Washington, Alaska, Montana, Idaho) Regional Medical Education Program; the University of Utah College of Medicine; the WOI (Washington, Oregon, Idaho) Regional Program in Veterinary Medicine; the Western Interstate Commission for Higher Education (WICHE) Professional Student Exchange Programs (medicine, optometry and occupational therapy); and Graduate Education Program. Students who initially enroll at Idaho State University as nonresidents and later wish to be considered for a change in residency status may submit an Idaho Residency Determination Worksheet (IRDW) with the appropriate documentation. IRDWs intended to change residency status for the current term are accepted through the tenth day of classes.

**NOTE:** It is the responsibility of the person requesting reclassification of residency status to provide clear and convincing evidence of bona fide domicile in Idaho.

The Western Regional Graduate Program (WRGP)

The Western Regional Graduate Program (WRGP) makes high-quality, distinctive graduate programs and healthcare-related programs available to students of the West at the resident tuition rate. As part of the Student Exchange Program of the Western Interstate Commission for Higher Education, WRGP helps place students in a wide range of graduate programs, all designed around the educational, social, and economic needs of the West.

Through WRGP, residents of Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming are eligible to enroll in available programs outside of their home state at resident tuition rates. Students need not demonstrate financial need.

To be included in WRGP, programs must meet the criteria of distinctiveness (if they are not related to healthcare) and quality. Programs are nominated by their institutions, peer reviewed by other graduate institutions in the West, and then researched and reviewed by WICHE staff for final approval. At this time, some 250 programs from more than 45 Western institutions participate. A full list of WRGP programs is on the WRGP website, http://wiche.edu/wrgp.

To be considered for the WRGP tuition rate, students simply apply directly to the department of the enrolling institution and identify themselves as WICHE WRGP applicants. Contact information for each participating program is listed in the WRGP online directory. WRGP students must fulfill all the usual requirements of the department and institution concerned, and meet all admission deadlines.

The following graduate programs at Idaho State University have been approved by WRGP:

- Audiology: Au.D.
- Biological Sciences: Ph.D. and D.A.
- Deaf Education
- English and the Teaching of English
- Mathematics
- Medical Laboratory Science
- Political Science
- Ph.D. in Clinical Psychology
- Ph.D. in Experimental Psychology
- Speech-Language Pathology
- Waste Management and Environmental Science

For more information please visit the WRGP website: http://www.wiche.edu. (http://www.wiche.edu)

Check the ISU WRGP section of the website at http://www.isu.edu/graduate/finsupp.shtml#western_regional for updated information.

Other Fees and Charges

- Graduate Classified (degree seeking) Application/Processing Fee....$55.00
- Unclassified (non-degree seeking)....$25.00
- Late fee (after semester has started)....$50.00
- Reapplication fee (after 8 semesters/terms)....$55.00
- Change of Status (unclassified to classified)....$55.00
Student Health Insurance Fee: varies by semester; included in full-time fees for additional information, please visit http://www.isu.edu/finserv/costinfo2015.shtml.

Class Fees (in addition to regular registration fees)
Many university classes require additional fees for specialized instruction and/or supplies. See the Class Schedule (https://ssb.isu.edu/bprod/bwckschd.p_disp_dyn_sched) for class fees required for specific courses.

Late Registration Processing Fees
Second through 10th day of classes: $50.00
After 10th day of classes: $100.00
To help defray the extra cost involved with late registration, processing fees are charged in addition to any other regular fees. All students (full-time, part-time, faculty, staff, etc.) paying fees after the deadline for fee payment are charged a late processing fee. The cashier is not authorized to accept late registration fee payment without the appropriate late processing fee. This fee is non-refundable. No department or employee of the university, other than those specifically authorized, has the authority to waive the fee.

Faculty, Staff and Spouse Registration Fee: $20.00 + $5.00 per credit hour
A copy of the current “Education Policy for Idaho State University Employees” is available in the Human Resources Office. Verification of employment and authorization forms for reduction in fees can be obtained from the Human Resources Office.

Senior Citizen Registration Fee: $20.00 + $5.00 per credit hour
Age 60 years or older: proper identification indicating date of birth is required. Fee reduction applies to Idaho residents only. It does not apply to special class fees. Fee is for courses on a space available basis only.

Transcript Fee
Please see information at: http://transcripts.isu.edu

Application for Graduation and Diploma Processing Fee: $20.00
This fee is collected from each applicant for each graduate degree and for each certificate. This fee is paid to the Office of the Registrar.

Reprocessing Fee for Graduation: $20.00
This fee is paid to the Graduate School.

Housing Costs
Please contact University Housing (http://www.isu.edu/housing) for more information, Stop 8083, Idaho State University, Pocatello, ID 83209, or (208)282-2120.

Refund Policy

General Fee Refunds
The Refund Policy applies to all for-credit classes regardless of location of the class.
All fee refunds will be paid by University check.

When any student enrolled in for-credit classes withdraws from Idaho State University or makes schedule changes that reduce the fee obligation, refunds are made on the following basis:

General University Fees Paid Without Use of a Fee Reduction Program
Refunds are calculated and authorized by the Office of Financial Services. The drop/withdrawal date is the actual date the drop or withdrawal form is received by an authorized University office or automated system.
Refunds of registration charges for full-time fees, part-time credit hour fees, nonresident tuition, professional program fees, and departmental fees are calculated on the total amount of fees paid, using the first official day of the University semester or session as the starting date.

Federal financial aid provisions may require funds to be returned to federal programs in excess of your ISU refund. In such situations, you will be billed for the excess remitted by the University in your behalf.

The official starting and ending dates of all classes are those designated by the University registrar.

Percentage Refund of Computed Base

Fall and Spring Semester:
Classes cancelled by the University: 100%
16-week classes for the first (10) ten days of university classes and 8-week classes for the first (5) five days of University classes: 100%
16-week classes for the next (5) five days of University classes and 8-week classes for the next (5) days of University classes: 50%
16-week classes dropped after the third week of classes. 8-week classes dropped after the tenth day of classes: No Refunds

Summer Session:
Classes cancelled by the University: 100%
Full term session (May - Aug) for the first 10 days of University classes and 4, 6, 8 week sessions dropped in the first 5 days of University classes: 100%
Workshop classes dropped before the 1st day of the workshop: 100%
Full term session (May - Aug) for the next 5 days (3rd week) of University classes and 4, 6, 8 week classes dropped in the next 5 days (2nd week): 50%
For classes, short courses, continuing education classes, and workshops with nonstandard starting and ending dates, refund requests are reviewed on an exception basis. The official starting and ending dates are those designated by the University registrar.

Non-Refundable Fee Charges/Payments
1. Reduced fee charges authorized by the State Board of Education. Examples include faculty/staff/spouse reduced fees, senior citizen reduced fees, education contract classes, etc.
2. Late processing charges.
3. Amounts paid to satisfy unpaid fees/charges from previous terms.
4. Amounts paid for student malpractice insurance.
5. Student Health Insurance premiums are not refunded under this policy. Please contact the Student Insurance Coordinator at (208) 282-2972.

Refunds for Exceptional Circumstances

Student Health Insurance premiums are not refunded under this policy. Please contact the Student Insurance Coordinator at (208) 282-2972.
In specific cases, as listed below, a full refund of the registration tuition and fees, credit hour fee, non-resident tuition and professional fees will be granted following official withdrawal from the University, provided the withdrawal process is completed during the first half of the semester or session (i.e., first eight weeks of a semester, first four weeks of a session). Proper documentation must be presented and approval granted by the offices of Student Affairs and Finance and Administration before the refund will be processed.

1. Induction of the student into the U.S. armed forces.
2. Incapacitating illness or injury that prevents the student from returning to school for the remainder of the term. A medical withdrawal must be processed through the University Student Health Center.
3. Death of a student.
4. Death of spouse, child, parent, or legal guardian of student.

**Deductions from Calculated/Authorized Refund**

The University reserves the right to deduct amounts owed the University from refunds. Refunds of fees for the term, less any outstanding fee loan balances for the term, are applied to the financial aid awarded to the student in the priority sequence shown below:

1. Amounts required by law to be returned to Federal Financial Aid programs
2. Third party agency payments of actual tuition and fees
3. University authorizations specifically for the payment of tuition and fees (i.e., graduate teaching assistant, athletics, etc.)
4. Federal aid programs (see Financial Aid Handbook for priority)
5. Miscellaneous outstanding balances due the University
6. University loan programs
7. University and donor scholarship programs

**Payment of Refund to Student**

A University check for the refund balance is mailed to the home address of the student, along with an itemized disclosure of any deductions. Refund checks are processed four weeks after the beginning of the term, or a minimum of three weeks after the date of payment if the student paid the charges.

**Registration Refund Appeals**

Contact the Vice President of Student Affairs or the University Controller for information about the University registration fee refund appeal process. Appeals should be submitted in writing before the end of the term for which the student is appealing.

**Room and Board Fees**

Students who fail to complete their agreement with University Housing will have their room and board fees pro-rated and, after appropriate penalties have been deducted, may receive a refund. See University Housing (http://www.isu.edu/housing) for details on residence hall and apartment living, and for details on any penalties for breaking agreements.

**Delinquent Accounts**

The cancellation of registration and withholding of academic credit of any student with a delinquent account or an unsatisfactory financial relationship with the Office of Finance and Administration is authorized without further notice, provided an attempt has been made to notify the student by the campus department in which the hold originated. This regulation may be invoked at the discretion of the Vice President, Finance and Administration, in cases of disregard in the settlement of returned checks, residence hall damage, library fines, telephone toll charges, overdue notes, traffic fines, room and/or board charges, apartment rental charges, etc.

**Dishonored Check Policy**

A charge is assessed each time a check is returned, the amount is charged to the student’s account, and the student is notified. If the check is not cleared within ten (10) days, a second notice is sent and a “hold” placed on his/her records.

Any check tendered in payment of registration fees and subsequently returned by the bank will result in automatic postponement of the student’s registration.

In the case of a check tendered in payment for room and board and subsequently returned by the bank, the student is notified immediately and allowed not more than five (5) days for the check to clear. If not cleared within that time, the student’s meal ticket and/or room reservations is canceled.

**Federal Family Educational Rights and Privacy Act of 1974**

Idaho State University in compliance with the Family Educational Rights and Privacy Act (FERPA), is responsible for maintaining educational records and monitoring the release of information of those records. Staff and faculty with access to student educational records are legally responsible for protecting the privacy of the student by using information only for legitimate educational reasons to instruct, advise, or otherwise assist students.

Only those records defined as "directory information" may be released without the express written permission of the student. Directory information includes the student’s name, address listings, telephone listings, e-mail addresses, part-time/full-time status, class level, college, major field of study, degree types and dates, enrollment status, club and athletic participation records, and dates of attendance including whether or not currently enrolled. No other information contained in a student's educational records may be released to any outside party without the written consent of the student.

A student may restrict release of all directory information by filing a Declaration of Non-disclosure of Educational Record Information form in the Office of Registration and Records. Students may choose to restrict release of their address and telephone listings only. This may be done through BENGALWEB (https://bengalweb.isu.edu). This restriction will apply to the students' address and telephone listings only; all other directory listings will continue to be available for release.

Students must request complete directory information restriction or address/phone listing restrictions during the first week of the fall term to prevent their information from being published in the Student Directory. Any restriction is permanent and remains in place even after the student has stopped attending or has graduated from the University unless the student requests, in writing, that it be removed. Additional FERPA information may be found on the web at: http://www.isu.edu/areg/ferpafacts.shtml
Arts and Letters

Kandi Turley-Ames, Ph.D., Dean

Mark McBeth, D.A., Associate Dean

Randy Earlies, D.M.A, Associate Dean

Anthropology

Chair and Associate Professor: Trawick
Professors: Cartwright, Loether
Associate Professors: Dudgeon, Reedy
Assistant Professor: Speer, Stull
Assistant Lecturers: Petersen, Thomas
Native Language Instructor: Gould

Mission

The mission of the Department of Anthropology is to research and teach about global human diversity and distinctiveness from the distant past to the present. Anthropology applies theoretical and practical tools to understanding the human past, human biology and evolution, language, contemporary society, and culture, and provides cross-cultural, environmental, and global perspectives on past and present human behavior. Our mission is to apply anthropological concepts to the resolution of important social, cultural, and environmental problems of our times. The Department of Anthropology offers graduate students the Master of Arts or Master of Science degrees with specialization in archaeological science, ecological anthropology, medical anthropology, applied anthropology, forensics, language preservation, and oral history.

Goals

Students who have completed a graduate degree in Anthropology at Idaho State University should be able to:

1. Read and understand anthropological theories and methods at a professional level.
2. Understand current debates within the field and critically evaluate the professional literature.
3. Use a comparative approach to theorize about the similarities and differences in the human condition across space and through time.
4. Design and carry out research and application of methods and theories at a professional level.

Measurable Outcomes

The Thesis or Special Project should show the following competencies based on the learning objectives:

1. Write a proposal using research methods and the application of theory to contemporary social issues.
2. Perform quantitative and/or qualitative analysis of data appropriate to the chosen subdiscipline.
3. Competently conceive, conduct, and write research and applications of anthropology at a level suitable for publication.

Admission Requirements

The student must apply to, and meet all criteria for admission to the Graduate School. In addition the student must provide:

1. A letter of application, including areas of interest and professional goals;
2. Three letters of recommendation;
3. Undergraduate transcripts and transcripts of any previous post-graduate coursework;
4. Minimum grade point average of 3.0;
5. Total GRE scores that average at least the 50th percentile for admission;
6. An undergraduate degree in anthropology is not required for acceptance into the program; however, students without upper division coursework in sociocultural anthropology, archaeology, and human origins equivalent to ANTH 5501, ANTH 5503, ANTH 5530, and an upper division linguistic anthropology course may be required to take these courses or approved readings courses before enrolling in content-respective graduate seminars.

Admission Requirements

The student must apply to, and meet all criteria for admission to the Graduate School. In addition the student must provide:

1. A letter of application, including areas of interest and professional goals;
2. Three letters of recommendation;
3. Undergraduate transcripts and transcripts of any previous post-graduate coursework;
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Option 1: Master of Arts in Anthropology

General Requirements

A minimum of 30 credits must be taken, including 15 at the 6600-level or higher and the following required courses:

ANTH 6605 Seminar in Linguistic Anthropology 3
ANTH 6615 Seminar in Biological Anthropology 3
ANTH 6625 Seminar in Sociocultural Anthropology 3
ANTH 6635 Seminar in Archaeology 3
ANTH 6641 Research Project 6
or ANTH 6650 Thesis
Additional 9 credits of graduate level courses approved by the student's advisor are also required.

Four semesters of foreign language must be completed, or equivalent competence must be demonstrated.

Total Hours 30

Option 2: Master of Science in Anthropology

General Requirements

A minimum of 30 credits must be taken, including 15 at the 6600-level or higher and the following required courses:

Select two of the following graduate seminars:

- ANTH 6605 Seminar in Linguistic Anthropology
- ANTH 6615 Seminar in Biological Anthropology
- ANTH 6625 Seminar in Sociocultural Anthropology
- ANTH 6635 Seminar in Archaeology
- ANTH 6641 Research Project or ANTH 6650 Thesis

An additional 9 credits of advanced techniques and methods courses are also required.

Additional courses at the 6600-level or higher to reach the 30 credit minimum.

Total Hours 30

Additional Requirements for Option 1 and Option 2

1. By the end of the first semester, each student must develop a proposed program of study specifying elective courses (Options 1 and 2) and techniques and methods courses (Option 2) in consultation with the student's graduate advisor.

2. Students completing M.S. or M.A. in Anthropology with an MPH degree may apply up to 9 credits to both degrees with advisors approval in both programs.

3. To maintain Classified status, students must register for a minimum of 6 credits in the Fall and Spring Semesters of the first year.

4. Student must write a Master's thesis or publishable manuscript, and successfully defend it in a formal oral examination.

Courses

ANTH 5501 History and Theory of Sociocultural Anthropology: 3 semester hours.
Survey of the development of anthropology, various schools of thought, important personalities, and concepts that have contributed to anthropology over time

ANTH 5502 Ecological Anthropology: 3 semester hours.
Interaction of human bio-cultural systems and environment. Relations of natural resources, technological inventories, social organization, cultural categories. Native resource management practices

ANTH 5503 Method and Theory in Archaeology: 3 semester hours.
History of the development of current methods and theory in archaeology and contemporary applications

ANTH 5504 Material Culture Analysis: 3 semester hours.
Methods and analyses used in archaeology and anthropology to understand the relationship between objects and culture. COREQ: ANTH 5505

ANTH 5505 Analytical Techniques Laboratory: 1 semester hour.
Analytical techniques laboratory to accompany ANTH 5504. Students will complete an assigned project in material culture analysis. COREQ: ANTH 5504

ANTH 5506 American Indian Health Issues: 3 semester hours.
An overview of health concerns, both current and past, of American Indian people, and the biological and sociocultural factors which influence health status

ANTH 5507 Anthropology of Global Health: 3 semester hours.
How cultures define health and illness, and how these definitions ultimately influence the health status of individuals

ANTH 5508 Topics in Medical Anthropology: 3 semester hours.
Rotating topics, including international health issues, ethno-psychiatry, ethnomedicine and non-western healing systems. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. May be repeated for a maximum of 6 credits. PREREQ: ANTH 5507 or permission of instructor

ANTH 5509 Clinical Medical Anthropology: 3 semester hours.
Explores the culture of biomedicine and the beliefs of patients. Topics include doctor/patient communication, cultural competency, cultural construction of risk, critiques of high-tech medicine and the international pharmaceutical industry

ANTH 5510 Introduction to Cultural Resources Management: 3 semester hours.
Introduction to CRM reviewing historic preservation and federal legislation as they pertain to archaeology; practical experience insite survey and recording

ANTH 5511 Old World Archaeology: 3 semester hours.
Prehistory of the Old World. Precise areal focus and periods may vary. Includes both theory and exposition. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. May be repeated for up to 6 credits. PREREQ: ANTH 2203 or permission of instructor

ANTH 5514 New World Archaeology: 3 semester hours.
Examination of the prehistory of the Americas with emphasis on the North American continent. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. May be repeated for up to 6 credits. PREREQ: ANTH 2203 or permission of instructor

ANTH 5530 Human Evolution: 3 semester hours.
Examines relevant topical issues/problems in human evolution from a bioanthropological, ecological and demographic perspective, including paleoanthropology, evolutionary genetics, and the impact of health, nutrition, and disease in human populations. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. May be repeated for up to 6 credits. PREREQ: ANTH 2230 or permission of instructor

ANTH 5532 Human Osteology: 3 semester hours.
Provides a comprehensive, working knowledge of the human skeletal system presented in a laboratory context, including identification of individual bones, osteogenesis, pathologies, demography and the applications of knowledge and techniques in real world settings. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: ANTH 2230 or permission of instructor

ANTH 5539 Principles of Taphonomy: 3 semester hours.
Effects of processes which modify organisms between death and the time the usually fossilized remains are studied. Emphasis on vertebrates. Equivalent to BIOL 5539 and GEOL 5539

ANTH 5549 Qualitative Research Methods: 3 semester hours.
Study of qualitative research methods. Data gathering techniques and data analysis will be covered. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: ANTH 2250 or permission of instructor
ANTH 5550 Sociolinguistics: 3 semester hours.
Study of the patterned covariation of language and society, social dialects and social styles in language; problems of bilingualism, multilingualism, creoles and language uses. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. Equivalent to ENGL 5588. PREREQ: ANTH 1107, ENGL 2281, or permission of instructor

ANTH 5552 American Indian Verbal Arts: 3 semester hours.
Analysis of current theories in the study of oral literature and ethnopoetics, focusing on the oral traditions of American Indians

ANTH 5554 Survey of American Indian Languages: 3 semester hours.
History of scholarship, analysis and classification of American Indian languages with emphasis on the languages of a particular phylum or geographical area

ANTH 5555 Phonetics: 3 semester hours.
Introduction to descriptive linguistics focusing on phonetics and phonetic phenomena of English and the other languages of the world. Extensive practice in perception and production of such phenomena. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. Equivalent to LANG 5555. PREREQ: ANTH/LANG 1107

ANTH 5556 Phonology and Morphology: 3 semester hours.
Phonological theory and analysis; current theories in morphology. Phonological rules, representations, underlying forms, derivation, justification of phonological analyses; morphological structure, derivational and inflectional morphology; relation of morphology to phonology. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. Equivalent to LANG 5556. PREREQ: ANTH/LANG 1107

ANTH 5558 Historical Linguistics: 3 semester hours.
The methods and theories of the historical study of language. The comparative method, internal reconstruction, linguistic change over time, genetic typology of languages, and application of prehistory

ANTH 5559 Linguistic Field Methods: 3 semester hours.
Practical experience in linguistic analysis of a language using data elicited from a native speaker. May be repeated up to 6 credits

ANTH 5563 Applied Statistics in Anthropology: 3 semester hours.
Practical applications of commonly used statistical analyses in anthropology

ANTH 5564 Advanced Analytical Methods in Anthropology: 3 semester hours.
Examination of and practical experience in applying advanced quantitative, qualitative, and laboratory methods and analyses. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. May be repeated for up to 6 credits. PREREQ: ANTH 5563 or permission of instructor

ANTH 5572 Native American Arts: 3 semester hours.
Survey of Native American arts and industries, including prehistoric, ethnographic, and contemporary venues

ANTH 5574 Topics in Indian Education: 3 semester hours.
Rotating review of topics dealing with issues in Indian education. Consult current schedule of classes for exact course being taught. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

ANTH 5576 Seminar in Am Indian Studies: 3 semester hours.
Advanced level course with critical examination, readings, discussion and presentation of selected issues facing American Indians. PREREQ: 9 credits of American Indian Studies or permission of instructor

ANTH 5578 Federal Indian Law: 3 semester hours.
Examination of tribal governments; their relationship with the federal government; sovereignty, jurisdictional conflicts over land and resources; and economic development. Equivalent to POLS 5578

ANTH 5579 Tribal Governments: 3 semester hours.
Complex legal position of Indian tribes as self-governing entities; principles of inherent powers; governmental organization, lawmaking, justice, relation to state and federal government. Equivalent to POLS 5579

ANTH 5580 Varieties of American Language: 3 semester hours.
In-depth study of various dialects of American English, including historical evolution of different dialects, effects of migration on dialects, and influences of non-English immigrant languages on development of American English. Field work studying the Snake River dialects of Idaho. Equivalent to ENGL 5580

ANTH 5581 Topics in Sociocultural Anthropology: 3 semester hours.
Selected topics in social, political, economic, and religious systems/organizations. Intensive survey of literature and analysis of relevant materials. See current schedule of classes for exact course titles. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. May be repeated for up to 9 credits with different course topics. PREREQ: Permission of instructor

ANTH 5582 Independent Problems in Anthropology: 1-3 semester hour.
Investigation of an anthropological problem chosen by the student and approved by the staff. May be repeated up to 6 credits

ANTH 5583 Field Research: 3 semester hours.
Practical experience in field research. May be repeated for up to 6 credits

ANTH 5585 Anthropology of War and Violence: 3 semester hours.
Survey of war and violence from evolutionary foundations through modern representations. The course covers violence and war among chimpanzees, the genetics and biochemistry of violence, the role of evolution in making humans aggressive, and the history and ethnography of violent conflict around the world

ANTH 5586 Archaeology Field School: 1-9 semester hour.
Practical field and laboratory training in archaeological excavation techniques and methods of analysis. May be repeated to a total of 9 credits

ANTH 5587 Ethnographic Field School: 1-6 semester hour.
Supervised fieldwork in cultural anthropology in a given ethnographic setting where students and faculty work on a specific set of field problems. May be repeated to a total of 6 credits

ANTH 5589 Topics in American Indian Studies: 3 semester hours.
Rotating review of topics dealing with issues in American Indian studies. Consult current schedule of classes for exact course being taught. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. May be repeated with different topics

ANTH 5590 Topics in Folklore: 3 semester hours.
Focused study of an issue in folkloristics or a particular genre of folklore, including history of the scholarship concerning that issue or genre. Rotating topics. May be repeated up to 9 credits with different topics. Equivalent to ENGL 5590

ANTH 5591 Archaeology Laboratory Analysis: 3 semester hours.
Directed analysis of archaeological remains and report writing. May be repeated up to 6 credits

ANTH 5594 Visual Anthropology: 3 semester hours.
Documentary and ethnographic filmmaking techniques including story structure, interviewing, audio and lighting, camera handling, composition, POV, and editing. Anthropological critiques of visual representation. Students create their own short film for a final project

ANTH 5595 Department Colloquium: 1 semester hour.
Presentations of current research issues in Anthropology by faculty and students. May be repeated
ANTH 5597 Professional Education Development Topics: 1-3 semester hour.  
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. 1-3 credits. May be repeated. May be graded S/U

ANTH 5599 Experimental Course: 1-6 semester hour.  
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

ANTH 6605 Seminar in Linguistic Anthropology: 3 semester hours.  
Discussion of theories, methods, and results in linguistic anthropology

ANTH 6610 Seminar in Medical Anthropology: 3 semester hours.  
Discussion of current topics within the various specializations of medical anthropology

ANTH 6615 Seminar in Biological Anthropology: 3 semester hours.  
Discussion of theories, methods, and results in biological anthropology

ANTH 6625 Seminar in Sociocultural Anthropology: 3 semester hours.  
Discussions of theories, methods, and results in sociocultural anthropology

ANTH 6635 Seminar in Archaeology: 3 semester hours.  
Studies in current theories, methods, and results in archaeological anthropology

ANTH 6641 Research Project: 1-6 semester hour.  
The student will pursue original research under staff guidance. The final report will result in a publishable manuscript. May be repeated. Graded S/U

ANTH 6642 Practicum in Teaching Anthropology: 3 semester hours.  
Directed preparation of an anthropology course with a review of course materials, format, teaching techniques, films, and other aids. The trainee will participate in a supervised teaching experience

ANTH 6649 Independent Study: 1-4 semester hour.  
Independent research under the guidance of faculty. May be repeated

ANTH 6650 Thesis: 1-6 semester hour.  
May be repeated. Graded S/U

ANTH 6655 Internship in Applied Anthropology: 3-6 semester hour.  
Supervised experience in the development and implementation of an anthropological project

ANTH 6699 Experimental Course: 1-6 semester hour.  
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Art

Faculty

Chair and Professor  
Anthony Martin  
Professor of Art

Professors  
Scott Evans  
Professor of Art  
Douglas Warnock  
Professor of Art

Assistant Professors  
Naomi S. Adams  
Assistant Professor of Art  
Laura Ahola-Young  
Assistant Professor of Art  
Andrea Ferber, Ph.D.  
Assistant Professor of Art History

Chair and Professor: Martin

Director of MFA Program and Professor: Evans

Professors: Evans, Warnock

Assistant Professors: Adams, Ahola-Young, Ferber

Master of Fine Arts in Art

The MFA degree is the recognized terminal degree in the studio arts. The MFA program is designed to refine the visual art skills of the graduate student in a particular area or areas of concentration by providing the instruction, facilities and time for the student both to develop a significant body of studio work and to expand his or her intellectual horizons in preparation for a rewarding professional career.

Studio Course Categories:

- Ceramics
- Drawing
- Fiber Media
- Painting
- Printmaking
- Sculpture

Admission Requirements

Applicants for admission to the MFA program must apply to, and meet all criteria for admission to the Graduate School. For admission to the Master of Fine Arts program in the Department of Art, the Graduate School does not require submission of Graduate Record Exam (GRE) scores; however, the taking of the GRE test is recommended for students who wish to compete for a non-resident tuition waiver.

Application must also be made to the Department of Art. Departmental evaluation requires the following materials, which should be sent directly to the Department of Art, Stop 8004, Idaho State University, Pocatello ID 83209:

1. A letter of intent stating the applicant’s goals and objectives with regard to graduate study;
2. A portfolio of work (20 digital images of studio work which the applicant feels would most effectively represent his/her involvement, ability, and potential);
   a. Digital file portfolios must be formatted for Macintosh computers. Twenty images should be submitted on a single CD.
   b. The CD should be labeled with the applicant’s name. Digital images, in RGB color, may be no larger than 5 Megabytes each. We recommend a longest pixel dimension of 1600 at a resolution of approximately 140 ppi. Save files as TIFF or highest-quality JPEG formats. We will not accept directions to a web site, or files submitted in presentation software, such as Powerpoint, or PDF files.
Master of Fine Arts in Art

Admission Requirements

Applicants for admission to the MFA program must apply to, and meet all criteria for admission to, the Graduate School. For admission to the Master of Fine Arts program in the Department of Art, the Graduate School does not require submission of Graduate Record Exam (GRE) scores, however, the taking of the GRE test is recommended for students who wish to compete for a non-resident tuition waiver.

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- A letter of intent stating the applicant’s goals and objectives with regard to graduate study;
- A portfolio of work (20 digital images of studio work which the applicant feels would most effectively represent his/her involvement, ability, and potential);
- Three letters of recommendation from undergraduate instructors, or other appropriate individuals, indicating the readiness of the applicant to pursue independent and sustained graduate-level work.

Other admission requirements include twelve credits of undergraduate Art History course work. Art History deficiencies of up to 6 credits may be compensated for by enrolling in the necessary courses concurrent with graduate work.

General Requirements

Basic requirements are a minimum of 60 credits in graduate courses approved by the Department of Art and the Graduate School. A minimum of six credits must be in the area of art history, and a minimum of 12 credits must be thesis project. The student may elect, as a program option, to take up to six credits in other related areas outside the Art Department. These courses must be departmentally approved. Students are required to complete ART 6601 and ART 6621. The department will accept a grade of C in one class as long as the minimum overall 3.0 GPA is maintained. The student will have the opportunity to repeat the course.

A written thesis will be submitted to the candidate’s thesis committee by the MFA candidate before the oral examinations. Each candidate for the MFA degree must also have a one-person exhibit during the last semester before the granting of the degree. A collection of digital images of the exhibit must be turned in to the Art Department at this time. The thesis project consisting of original creative work is the focal point of the visual growth by the candidate and should demonstrate a professional level of competency within a unified creative point of view. The MFA degree is the terminal degree in the field of the visual arts. A minimum of two years of participation in the program is required for this goal. An oral examination is held concurrently with the thesis project show. Additional information is available from the Department of Art.

c. Name and number all files with LastnameFirstname00.jpg or LastnameFirstname00.tif (e.g., JohnsonRobert12.jpg). Number images in the order to be viewed. Include with the submission a printed, hard-copy image inventory page headed with your name and the area/s of study to which you are applying. The inventory page should indicate, by corresponding number, the title, date, dimensions, and medium of each work; and

3. Three letters of recommendation from undergraduate instructors, or other appropriate individuals, indicating the readiness of the applicant to pursue independent and sustained graduate-level work.

The Department has established March 15 as the application deadline for fall semester admission. Graduate Assistantship applications are also due by March 15.

October 15 is the application deadline for spring semester. (Assistantship applications are not considered for spring semester.) Applications received after these deadlines may be considered, subject to space availability.

The entire Graduate Faculty of the Department will review all materials submitted by each applicant. Recommendations are made by measuring, as accurately as possible:

- The applicant’s demonstrated preparedness and potential to be successful in the program;
- The sense, on the part of the faculty, that the faculty could contribute, in a meaningful and constructive way, to the student’s development as an artist;
- Available space in the program, as well as faculty and departmental resources.

Other admission requirements include twelve credits of undergraduate Art History course work. Art History deficiencies of up to 6 credits may be
compensated for by enrolling in the necessary courses concurrent with graduate work.

General Requirements

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Courses

ART 5518 Art of the Book: 3 semester hours.
Expands the traditional idea of book form with innovative structures and concepts. Textual and non textual formats and methods for generating ideas for works are addressed. Traditional techniques for bookbinding will also be included. Equivalent to MC 5518

ART 5522 World Arts: 3 semester hours.
Study of the art produced in cultures outside of the western tradition. Topics include pre-Hispanic art of Mexico, Central and South American art, and North American Indian art, Oceanic art, and the art of Africa south of the Sahara

ART 5523 Nineteenth Century Art: 3 semester hours.
History of the visual arts from the beginning of the 19th century up to the advent of Cubism

ART 5524 Twentieth Century Art: 3 semester hours.
History of the visual arts from Cubism to the present

ART 5525 Contemporary Art Forms: 3 semester hours.
The study of the major developments of art as an expression of contemporary society. Emphasis on art since 1950

ART 5526 Seminar in Art History: 3 semester hours.
Extensive reading and discussion in Art History and aesthetics under the supervision of the instructor. May be repeated up to 6 credits

ART 5531 Advanced Printmaking: 3 semester hours.
Advanced work in printmaking. Choice of medium

ART 5532 Advanced Printmaking: 3 semester hours.
Advanced work in printmaking. Choice of medium

ART 5541 Advanced Painting and Composition: 3 semester hours.
Special projects and experimental individual work for advanced students

ART 5542 Advanced Painting and Composition: 3 semester hours.
Special projects and experimental individual work for advanced students

ART 5551 Advanced Metals-Jewelry: 3 semester hours.
Experimental work. Individual projects may include plastics, electroplating, electroforming, advanced fabrication, anodizing or raising techniques

ART 5552 Advanced Metals-Jewelry: 3 semester hours.
Experimental work. Individual projects may include plastics, electroplating, electroforming, advanced fabrication, anodizing or raising techniques

ART 5551 Advanced Metals-Jewelry: 3 semester hours.
Experimental work. Individual projects may include plastics, electroplating, electroforming, advanced fabrication, anodizing or raising techniques

ART 5552 Advanced Metals-Jewelry: 3 semester hours.
Experimental work. Individual projects may include plastics, electroplating, electroforming, advanced fabrication, anodizing or raising techniques

ART 5561 Advanced Fiber Media: 3 semester hours.
Experimental work. Individual projects may include on-loom and off-loom techniques, dyeing processes, basketry, or multilayered fabrics

ART 5562 Advanced Fiber Media: 3 semester hours.
Experimental work. Individual projects may include on-loom and off-loom techniques, dyeing processes, basketry, or multilayered fabrics

ART 5571 Advanced Ceramics: 3 semester hours.
Individual projects may include ceramic sculpture, mosaics or experimental problems in form and techniques

ART 5572 Advanced Ceramics: 3 semester hours.
Individual projects may include ceramic sculpture, mosaics or experimental problems in form and techniques

ART 5581 Advanced Sculpture: 3 semester hours.
Experimental work with an emphasis on scale and environmental problems

ART 5582 Advanced Sculpture: 3 semester hours.
Experimental work with an emphasis on scale and environmental problems

ART 5591 Advanced Papermaking: 3 semester hours.
Further development of topics from ART 3391

ART 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. 1 to 3 credits. May be repeated. May be graded S/U

ART 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

ART 6501 Independent Study in Drawing: 3 semester hours.
Individualized course designed to address drawing-specific concerns: technical, material, and/or conceptual possibilities inherent to various drawing media. May be repeated for a total of 6 credits

ART 6621 Graduate Seminar: 3 semester hours.
Reading and discussion of theories and practices related to the production and presentation of studio art under the supervision of the instructor. Students will research and prepare written presentations for weekly seminar discussion and evaluation. May be repeated

ART 6635 Research in Studio or Theory: 4 semester hours.
Investigation of technical, material, and/or aesthetic/theoretical problems in art history/studio areas under the supervision of the instructor

ART 6640 Experimental Problems in Studio: 4 semester hours.
Experimentation in technical, material, and aesthetic problems in a studio area under the supervision of the instructor

ART 6645 Studio: 1-12 semester hour.
Studio work under the supervision of the instructor. 1-12 credits. May be repeated up to 12 credits

ART 6649 Thesis Proposal: 1 semester hour.
Summary of the objectives and goals of the thesis project prepared under supervision of the student's advisor. Concurrent with application for admission to candidacy

ART 6650 Thesis: 1-12 semester hour.
Research and evaluation of the thesis project under the supervision of the instructor. May be repeated up to 12 credits
ART 6650 Thesis Project: 1-12 semester hour.
Preparation and presentation in a one-person show of a significant body of work which demonstrates a professional level of competency within a unified creative point of view. An exhibition and slides of the works are required by the department under the supervision of the candidate's advisor. A graduate faculty orals committee will review and approve or disapprove the show and thesis proposal. 1-12 credits. May be repeated up to 16 credits. Graded S/U. PREREQ: ART 6649

ART 6660 Special Topics: 1-4 semester hour.
1-4 credits. May be repeated

ART 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Communication, Media, and Persuasion

Chair and Professor: DiSanza
Professors: Gribas, Jull, Legge, Loeb, Partlow Lefevre
Associate Professor: Beachboard
Assistant Professors: Carr, Gershberg, Hartman, Ownby
Lecturers: Collins, Czepinski, Dixon, Eckert, Moline, Morris, Robinson, Sowell, Underwood
Emeriti: Frazier, House, Mauch, Trinklein

Goals
The primary objectives related to the Master of Arts in Communication program are to help students develop the following competencies:

1. An understanding of the history and nature of the Communication discipline.
2. The ability to read, understand, and critique scholarly communication-related research and analysis.
3. The ability to design and conduct original communication-related research and analysis.
4. The ability to engage in critical thinking.
5. The ability to communicate effectively in writing.
6. The ability to communicate effectively through oral presentation.
7. The ability to engage in effective applied problem-solving for personal and professional goals.
8. The ability to construct and evaluate strategic verbal and visual messages.
9. The ability to use effective information research strategies.
10. An understanding of the role of communication in interpersonal, group/team, corporate, political, cultural, mediated, and historical contexts.
11. Knowledge and skill useful to graduates' professional success.
12. Knowledge and skill applicable to graduates' personal lives.

Admission Requirements
To be admitted to classified status, students must apply to, and meet all criteria for, admission to the Graduate School.

Program Overview
The Master of Arts in Communication program is a highly flexible 30 credit graduate degree. Students typically take graduate courses in other departments to supplement work in Communication, Media, and Persuasion to build their own cohesive program of study. All students need to work with an advisor to design and approve a program of study and should contact one of the graduate faculty before registering for the first semester. Though it is possible to work at an accelerated pace, the Master of Arts in Communication is designed as a two-year program.

All programs of study will be expected to reflect the following departmental standards:

- At least 15 credits must be from 6600-level course work.
- At least 15 credits must be from course work in Communication, Media, and Persuasion.
- Students choosing the Graduate Degree Paper option must take a minimum of 27 course credits plus a minimum of 3 Graduate Degree Paper (CMP 6660) credits.
- Students choosing the Thesis option must take a minimum of 24 course credits plus a minimum of 6 Thesis (CMP 6650) credits.

Master of Arts in Communication

Admission Requirements
To be admitted to classified status, students must apply to, and meet all criteria for, admission to the Graduate School.

Program Overview
The Master of Arts in Communication program is a highly flexible 30 credit graduate degree. Students typically take graduate courses in other departments to supplement work in Communication, Media, and Persuasion to build their own cohesive program of study. All students need to work with an advisor to design and approve a program of study and should contact one of the graduate faculty before registering for the first semester. Though it is possible to work at an accelerated pace, the Master of Arts in Communication is designed as a two-year program.

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Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CMP 6601</td>
<td>Introduction to Graduate Research Methods</td>
<td>3</td>
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<tr>
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<td>(to be taken in a student's first fall semester) 1</td>
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<tr>
<td>CMP 6630</td>
<td>Seminar in Communication (repeatable)</td>
<td>9</td>
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<tr>
<td>Additional</td>
<td>semester credits</td>
<td>12-15</td>
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| graduate-level CMP courses or other graduate-level courses | approved as part of a program of study 2

1 A minimum of nine CMP graduate seminar credits:
Graduate Degree Paper (3 cr) or Thesis (6 cr) 3-6

To be taken in a student's first fall semester.

Total MA program credits: 30

Or other graduate-level courses approved as part of a program of study.

Courses

**CMP 5503 Mass Communication and Society: 3 semester hours.**
Introduces students to mass media theories scholars use to study the effects of media messages. Students will also read and discuss research illustrating the media's impact on individuals, society, and cultures. Topics include the media's relationship to stereotyping, images of sexuality, violence, values, politics, and globalization. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5504 Gender and Communication: 3 semester hours.**
Course examines communication arenas from a perspective that focuses on gender and includes study of similarities and differences in female/male patterns. Topics include nonverbal, organizational, language, family and friendship. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5509 Communication Inquiry: 3 semester hours.**
Introduces tools and strategies communication professionals use to answer questions and solve problems through systematic investigation. The course will focus on developing an understanding of applied communication research, including design, sampling, data collection, and data analysis. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5510 Mass Media History, Law, and Ethics: 3 semester hours.**
A comprehensive exploration of mass communication law and the history of mass media. The course examines media rights of free expression and First Amendment including libel privacy, access to information, free-press, and other related topics and themes. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5518 Advanced Reporting: 3 semester hours.**
In-depth writing and reporting of important topics of feature-length, investigative journalism on various platforms and different formats. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5520 Advanced Leader Communication: 3 semester hours.**
Advanced exploration of the vital relationship between communication and leader effectiveness with a focus on particular communication tools and strategies. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5522 Conflict Management: 3 semester hours.**
Examines the dynamics of everyday conflicts across a variety of settings, from personal to organizational. Principles of conflict, similar across all communicative contexts, are emphasized. Theory and its application are given equal importance. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5524 Management Communication: 3 semester hours.**
Examines the communication goals and functions unique to organizational managers and leaders. Topics studied include socialization and training, leader-member relationships, incentive-based systems of motivation, employee identification and commitment, and organizational development. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5535 Narrative and Print: 3 semester hours.**
Exploration and reconsideration of conventional concepts of what makes a book, both in terms of narrative structure and physical form. Focus on examination of familiar forms in new ways to help students learn to approach all multi-page projects from fresh and new angles. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. Equivalent to ART 5518. PREREQ: Permission of instructor.

**CMP 5536 Advanced Issues in Design: 3 semester hours.**
Focuses on complex design challenges, professional-level assignments, and design projects with multiple components. Application of research and entrepreneurial skills to seek innovative solutions for appropriate economic constituencies, users, and audiences. Professional presentations of ideas and design solutions for critique and discussion are central to this course. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor.

**CMP 5546 Public Relations Programs: 3 semester hours.**
Tactics and strategies for planning public relations programs for public and private organizations. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor.

**CMP 5555 Photo Media: 3 semester hours.**
Focuses on the art of visually communicating news or feature stories with still pictures and/or video. Emphasis on photographer adaptation to situations to cover stories as they unfold without becoming part of the story and application of multimedia formats expected within current social and mass media environments. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5557 Advanced Photo Media: 3 semester hours.**
Explores the notion of visual storytelling for multi-media/multi-platform productions. Investigation into photographer intent as it relates to crafting color or black and white images into a visual story, elements and decisions required for storytelling, and concept research techniques. Students create a body of cohesive images suitable for various forms of professional multi-platform distribution. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5581 Rhetoric of Hitler and Churchill: 3 semester hours.**
Rhetorical theory and practice of these influential leaders and the impact of their persuasion. Topics include Hitler's oratory, Nazi propaganda, and Churchill's World War II speeches. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: CMP 5555L. PREREQ: Permission of instructor.

**CMP 5583 Rhetoric of Popular Culture: 3 semester hours.**
Explores the functions of rhetoric in popular culture mass media including news, television, film, fiction, advertising, music, and the internet. Emphasizes understanding how rhetoric in these mediums reflects, influences, and interacts with the culture. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5584 Recent Rhetorical Issues: 3 semester hours.**
Study of the rhetoric of contemporary issues such as the Vietnam War, the Black Revolution, and other current political and social topics, including the rhetoric of ongoing election campaigns. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.
**CMP 5585 Classical Rhetorical Theory: 3 semester hours.**
Principle western rhetorical theories discussed from a historical perspective, beginning with the ancient Greeks, Romans, Second Sophistic, and ending with the Middle Ages. Some of the works stressed include writings by Plato, Aristotle, Cicero, Longinus, and St. Augustine. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5586 Contemporary Rhetorical Theory: 3 semester hours.**
This course examines rhetorical theories as a cultural phenomenon including modern, contemporary, and postmodern approaches. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5588 Rhetorical Criticism: 3 semester hours.**
Study and application of various theories and methods of rhetorical criticism including Aristotelian and Burkeian principles. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**CMP 5591 Independent Research Projects: 1-3 semester hour.**
Under the supervision of professors in the various areas of communication, students will prepare reports and carry out projects designed to promote professional growth. May be repeated for up to 6 credits. PREREQ: Permission of instructor and department.

**CMP 5599 Experimental Course: 1-6 semester hour.**
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. Repeatable if covering different topics.

**CMP 6601 Introduction to Graduate Research Methods: 3 semester hours.**
Orientation to departmental graduate program policies and expectations, overview of the communication discipline, and introduction to methods used for producing scholarly research in the field.

**CMP 6630 Seminar in Communication: 3 semester hours.**
In-depth study and analysis of selected topics related to the communication field. See instructor for specific topics. Repeatable if covering different topics.

**CMP 6650 Thesis: 1-6 semester hour.**

**CMP 6660 Graduate Degree Paper: 1-3 semester hour.**
Graduate degree paper. 1-3 credits. Repeatable. Graded S/U.

**English and Philosophy**

Chair and Professor: J. Atteberry
Director of Philosophy and Professor: Wahl
Assistant Chair and Associate Professor: Wolter
Graduate Program Director and Associate Professor: Winston
Composition Director and Professor: Swetnam
Professors: B. Attebery, J. Attebery, Baergen, A. Johnson, M. Johnson, Levenson, Schmidt
Associate Professors: Engebretsen, Goslee, Hellwig, Klein, Launspach, Skidmore, Whitaker
Assistant Professors: Petit, Schultz-Hurst, Van Winkle

The Department of English and Philosophy offers graduate curricula in English studies that include courses in language, literature, composition/rhetoric, and English pedagogy. The Department offers the Master of Arts and the Doctor of Philosophy degrees.

**Admission Requirements for International Students**
Students whose native language is not English must achieve at least one of the following minimum scores to be considered for admission into the master's or doctoral program in English: TOEFL 550/213; MTELP 84; IELTS 6.

**Goals**
The Department has articulated the following goals and student learning outcomes for students in graduate programs:

**Learning Outcomes - Master of Arts**
Stated Mission and Goals: The M.A. program provides advanced training in British and American literature and culture, and opportunities to pursue advanced work in other areas of English studies, including linguistics, TESOL, and composition. The M.A. provides students with training to enter any field where verbal and analytical ability is essential, especially teaching, as well as preparation for further graduate work in Ph.D. programs.

**Student Learning Outcomes**

1. M.A. students will understand major literary traditions in British and U.S. cultures.
2. M.A. students will understand ways that literary works are shaped by and participate in broad cultural trends.
3. M.A. students will understand important theoretical approaches to the study of literature and culture.
4. M.A. students will analyze and synthesize on-going scholarly conversations in English studies and situate their arguments in relation to these conversations.
5. M.A. students will understand linguistic structures (i.e. language and/or rhetoric) and employ this understanding in their readings of texts and in their writing.

**Learning Outcomes - Doctor of Philosophy**

Stated Mission and Goals: The Doctor of Philosophy in English and the Teaching of English is a terminal degree program that trains students for teaching careers in English at colleges and universities.

**Student Learning Outcomes**

1. Ph.D. students will have a professional understanding of major literary traditions in British and U.S. cultures.
2. Ph.D. students will have a professional understanding of the ways that literary works are shaped by and participate in broad cultural trends.
3. Ph.D. students will understand important theoretical approaches to the study of literature and culture and employ these theories in their research and writing.
4. Ph.D. students will define, research, and complete a significant research project within English studies, and be prepared to conduct research independently once they graduate.
5. Ph.D. students will understand linguistic structures (i.e. language and/or rhetoric) and employ this understanding in their readings of texts and in their writing.
6. Ph.D. students will understand theories of college-level English teaching and will be able to effectively translate these theories into practice.
7. Ph.D. students will be prepared for future professional activities as college-level English teachers.

- Doctor of Philosophy in English and the Teaching of English (p. 90)
- Master of Arts in English (p. 91)
- TESOL Certificate (p. 92)

**Doctor of Philosophy in English and the Teaching of English**

The Doctor of Philosophy in English and the Teaching of English prepares students for teaching careers in English at colleges and universities.

The program emphasizes the study of English and American literature, coursework in content-specific pedagogy, and supervised teaching internships. Students also undertake directed, specialized research in a required dissertation.

**Admission Requirements**

For full consideration for admission and financial aid, applications for fall admission must arrive by February 15.

Applicants for classified admission and/or financial support must submit the following materials:

1. Undergraduate and graduate transcripts.
2. An M.A. in English (or appropriate related field) with an accumulative grade point average of 3.5 in M.A.-level English courses.
3. Three letters of recommendation from professors who can comment on the student’s recent academic work.
4. Scores at or above the 50th percentile on the verbal section of the GRE general test. Scores on the analytical writing section will also be considered in admission decisions.
5. A writing sample (about 10-20 pages).
6. A brief statement (about 500 words) describing the applicant’s academic background, reasons for applying to the program, research interests, and professional goals.

The Graduate Committee in consultation with the department Chair evaluates these materials to determine admission to the program. Priority will be given to experienced, successful teachers.

**General Requirements**

The Doctor of Philosophy in English requires a minimum of 39 semester credits beyond the M.A.

A course completed as part of a student’s M.A. program may be approved by the Graduate Director to satisfy a particular requirement of the Ph.D. program, up to a maximum of 9 credits; however, the substitution of course work does not waive the minimum credit requirement for the Ph.D. program.

With the approval of the Graduate Director, students may transfer up to 9 credits of coursework beyond the M.A. from other institutions.

Students must maintain a 3.5 grade point average to advance to candidacy for the Ph.D. Three grades below B- during the entire program will automatically disqualify a student.

Graduate students must follow the policy on incomplete grades as it is listed in the Idaho State University Graduate Catalog. Teaching assistantships and Ph.D. fellowships will not be renewed for students with incomplete grades on their transcripts.

**Special Requirements**

1. Student must complete at least 27 of the required 39 credits at the 6600 level or higher.
2. Students must complete two supervised teaching internships. The student must submit a detailed proposal for each internship to the Graduate Committee for approval prior to the semester of the internship. The proposal must be endorsed by the member of the graduate faculty who has agreed to supervise the internship. An unacceptable Ph.D. internship will have the same consequences as a course grade of C.
3. Students will write a dissertation with a section exploring the implications of the research for the student’s teaching of English. This dissertation project will be designed in consultation with a member of the English graduate faculty, who will serve as chair of the dissertation committee. The dissertation committee shall consist of three members of the graduate faculty, at least two of whom are English graduate faculty. In consultation with the dissertation director, the student is responsible for assembling the dissertation committee. The dissertation proposal must be approved by all members of the student’s dissertation committee and then submitted, with the comprehensive exam lists attached, to the Graduate Director for review, according to the guidelines in the English Graduate Handbook. A Graduate Faculty Representative (GFR) will be appointed after review of the proposal and exam lists.
4. Students must present a colloquium on the topic of the dissertation research, given in the last semester of their degree work, which will allow them to obtain experience in presenting the results of their research to their peers.

**Course Work**

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</table>
Students may satisfy this requirement in one of the following ways:

1. By passing four semesters of one foreign language with an average grade of B, either during the course of study for the graduate degree or with an interval of no longer than two years between the completion of the last language course and the beginning of graduate study in English at Idaho State University.

Students who have a first language other than English will be considered to have satisfied this requirement.

**Course Work Limitations**

A maximum of 6 semester credits taken outside of ENGL-prefixed courses may be counted toward degree requirements, with the approval of the Graduate Director.

**Comprehensive Examination**

Students are eligible to take the comprehensive exam after completing 36 credits beyond the M.A. Students must take the exam before defending the dissertation.

The comprehensive examination is both written and oral. The examination tests the student in the general areas listed below, but the student in consultation with his/her dissertation committee will design the specific subjects and reading lists on which he/she will be tested. The exam lists must be approved by all members of the student’s dissertation committee and then submitted, along with the dissertation proposal, to the Graduate Director for review, according to the guidelines in the English Graduate Handbook.

The exam areas are:

a. The student’s dissertation area
b. A broader field or literary period
c. An area in the teaching of English

The examining committee will consist of the three-member dissertation committee. In order to ensure that the examining committee has sufficient expertise to test the student in all three exam areas, the dissertation committee chair may propose to substitute a member of the dissertation committee with another member of the graduate faculty, so long as two members of the examining committee are English graduate faculty. The substitution must be approved by the Graduate Director.

The comprehensive examination may be repeated only once, and must be retaken within 12 months.

**Foreign Language Requirement**

Students must demonstrate proficiency in one foreign language, either modern or ancient, before the program of study is complete. The purpose of this requirement is for students to have a current knowledge of a language other than English and of its relation to the culture from which it originates.

Students may satisfy this requirement in one of the following ways:

1. By passing four semesters of one foreign language with an average grade of B, either during the course of study for the graduate degree or with an interval of no longer than two years.

**Master of Arts in English**

The Master of Arts in English prepares graduates for careers and for doctoral study in English and closely related fields. The program emphasizes study in English and American literature and requires course work in the English language and linguistics. A well-developed mentoring program provides supervised teaching experience in composition for students holding assistantships.

**Admission Requirements**

Applications for admission and funding are due February 15th (to begin in fall semester), and October 1st (to begin in spring semester). Applicants must apply to and meet all criteria for admission to the Graduate School. In addition to the general requirements of the Graduate School, applicants must submit the following materials:

1. All undergraduate and any graduate transcripts, showing accumulative grade point average of at least 3.0 over the last 60 +/- credits (90 +/- for quarters) undergraduate coursework.
2. GRE general test scores, a score at or above the 50th percentile on the verbal section of the GRE general test. Scores on the analytical writing section will also be considered in admission decisions.
3. Three letters of recommendation, preferably from professors who know the student’s recent academic work.
4. A brief statement (about 500 words) of academic and professional goals.
5. A brief writing sample (about 5 pages). The English Department Admissions Committee, in consultation with the department chair, evaluates the applicant’s materials to determine admission to the program. When these materials are evaluated, the Admissions Committee will look at the student’s preparation for graduate work in English, his/her academic promise (as indicated by transcripts, GRE scores, and letters of recommendation), and the fit between the student’s goals (as indicated in their statement) and the mission and strengths of the M.A. program.

Students admitted to the M.A. program are called Classified students. Some students may be admitted as Classified with performance requirements which means they must fulfill certain requirements specifically indicated with their admission and are not eligible for graduate assistantship support until they achieve Classified status. Continuation in the program is subject to a student’s meeting this requirement. Students admitted without at least 21 credits of undergraduate courses in English, excluding freshman composition, may be required to make up deficiencies in their undergraduate work.

**General Requirements**

The Master of Arts in English program requires a minimum of 30 semester credits in courses approved by the Department of English. Students must take at least 18 of these credits in courses at the 6600-level courses or higher.

Students may fulfill these credit requirements in one of three options:

1. **Final Exam Option**: The student takes 30 credits of coursework, at least 18 of which must be at the 6600-level, and complete a final exam. OR
2. **M.A. Paper Option**: The student completes 30 credits, including at least 18 credits at the 6600-level, and completes a 3-credit final M.A. Paper, a revised paper based on work done in a course completed as part of the M.A.
program, which must be submitted with a cover letter, CV, and statement describing their rationale for choosing the paper and the revision process. Up to 3 credits of portfolio work may count toward the 6600-level requirement. OR

3. Thesis Option: The student completes 30 credits, including at least 18 credits at the 6600-level, and completes a thesis. Up to 6 credits of thesis may count toward the 6600-level requirement.

Students selecting any of these options must also demonstrate proficiency in one foreign language and may do so in the following ways:

1. By demonstrating that they have obtained an intermediate level of competence in a foreign language, equal to completing the second sophomore-level (2200-level) course with a grade of B or better. Students may demonstrate this proficiency in one of three ways:
   • By completing all foreign language coursework (at the 2200-level or above) with an average grade of B or better, and with an interval of no longer than four years between the conclusion of the last language class and the beginning of graduate study in English at Idaho State University.
   • By passing the equivalent of four semesters of one foreign language with an average grade of B or better.
   • By passing the CLEP exam and earning credit for a 2200 course. OR

2. By passing with a grade of B or better a two-part examination administered by the Language and Literature Department. OR

3. By having completed a major or a minor in a foreign language, as verified by a college transcript. OR

4. By taking 6 credits beyond the normal 3 credits of required Language Studies coursework. These 6 credits, which do not count toward the degree requirements, must include:
   a. Old English and History of English Language OR
   b. or , plus one additional course in linguistics approved by the department OR

5. By having a first language other than English.

All students must maintain a satisfactory record of scholarship. Three grades below B- during the entire program will automatically disqualify a student from continuing in the program.

Graduate students must follow the policy on incomplete grades as it is listed in the Idaho State University Graduate Catalog.

Teaching Assistantships will not be renewed for students with incomplete grades on their transcripts.

**All students must take the following 12 required credits:**

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Students appointed to teaching assistantships must also take the following 6 required credits:

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<tr>
<td>ENGL 6631</td>
<td>Seminar in Teaching Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 7731</td>
<td>Practicum in Teaching Composition</td>
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</table>

Total Hours 12

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**TESOL Certificate**

Recommendations regarding admission will be made by the co-directors of the TESOL program in conjunction with the Graduate Director.

**Admission Requirements**

For admission into the TESOL Certificate program, applicants must satisfy the following criteria:

1. A bachelor’s degree from an accredited institution.
2. An accumulative grade point average of 3.0 over the last two years of undergraduate course work for the B.A.
3. In addition to the Graduate School requirements, score at or above the 35th percentile on the verbal section of the GRE general test.
4. Three letters of recommendation, preferably from professors, or colleagues who know the applicant’s recent academic or professional work.
5. Applicants whose first language is not English need to meet the following TOEFL requirements for Classified admission:
   a. Internet-based test (IBT): a total score of 80 with a score of at least 20 on each Section (graduate assistants who teach courses must score 23 or above on the Speaking Section) on the IBT; or
   b. Computer-based test: a total score of 213 with a score of at least 21 on Section 1 (Listening Comprehension) on the computer test; or
   c. Paper-based test: a total score of 550 with a score of at least 55 on Section 1 (Listening Comprehension) on the paper test, or a score of 84 on the MTEL, or a score of 6 on the IELTS.

It is strongly recommended that applicants have some knowledge of a second language.

**General Requirements**

The certificate program is 18 credits and is granted alone or in addition to a graduate degree.

All students must take the following 12 credits:

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</tr>
<tr>
<td>ENGL 6681</td>
<td>Theory of Second Language Acquisition</td>
<td>3</td>
</tr>
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<td>ENGL 6682</td>
<td>TESL Methodology</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 7783</td>
<td>Practicum in Second Language Teaching</td>
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Total Hours 12

In addition to the required courses, students must take two 3-credit electives chosen from the graduate-level linguistics offerings in either the Department of English and Philosophy or the Department of Anthropology.
Courses

ENGL 5501 Advanced Composition: 3 semester hours.
An advanced course in which students develop an independent style in writing such types of essays as the personal, biographical, argumentative, and critical. May contain prose analysis. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5506 Advanced Creative Writing: 3 semester hours.
Production and discussion of student writing. Study in a specific genre. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5509 Literary Magazine Production: 3 semester hours.
Hands-on experience in literary magazine production: editing, proofreading, and design. Strategies for screening and selecting stories, poems, and reviews. Consideration of the role of the small press in national literary culture. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5531 Teaching and Writing Projects Special Topics: 3 semester hours.
Aids teachers of all grade levels and all academic subjects in developing skills in teaching writing. Combines composition theory and practical classroom exercises with ongoing writing and critiques. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5540 Philosophy and Literature: 3 semester hours.
Reflections on the relation between poetic and speculative discourse. Topics include forms of consciousness, temporality and narrative, metaphysics of genre. Equivalent to PHIL 5540. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5541 History of Literary Criticism: 3 semester hours.
Teaches major theorists and debates that have influenced the interpretation of literature. Students read key theoretical texts. Course may use a thematic or chronological approach. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5553 American Indian Literature: 3 semester hours.
Considers literary works by and about North American native people, especially in relationship to history, genre, and culture, including oral traditions. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5555 Studies in a National Literature: 3 semester hours.
Studies in important literatures and cultures not otherwise covered in the curriculum. Will include literatures in translation and literature written in English outside of America and the British Isles. Equivalent to LANG 5515 and CMLT 5515. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5556 Comparative Literature: 3 semester hours.
The analysis of ideas, problems, and techniques common to important writers of various national literatures. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5561 Classical Literature: 3 semester hours.
Study of the major literature of the classical Greek and Roman periods, especially in relationship to its cultural backgrounds. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5562 Medieval Literature: 3 semester hours.
Study of the major literature of the Middle Ages and its background, with emphasis upon the development of English literature. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5563 Renaissance Literature: 3 semester hours.
Study of the major literature of the Renaissance and its background, with emphasis upon the development of English literature. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5564 Seventeenth Century Literature: 3 semester hours.
Study of the major literature of the seventeenth century and its background, with emphasis on English or American or other literature of the period. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5565 Eighteenth Century Literature: 3 semester hours.
Study of the major literature of the eighteenth century and its background, with emphasis on English or American or other literature of the period. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5566 Early Nineteenth Century Literature: 3 semester hours.
Study of the major literature of the early nineteenth century and its background, with emphasis on English or American or other literature of the period. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5567 Late Nineteenth Century Literature: 3 semester hours.
Study of the major literature of the late nineteenth century and its background, with emphasis on English or American or other literature of the period. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5568 Early Twentieth Century Literature: 3 semester hours.
Study of the major literature of the early twentieth century and its background, with emphasis on English or American or other literature of the period. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5569 Contemporary Literature: 3 semester hours.
Study of recent major literature and its background, with emphasis on English or American or other literature of the period. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5570 Post-Colonial Literature: 3 semester hours.
Study of post-colonial literary texts, with attention to the role of literature in history, political resistance, and social movements of one or more colonized cultures. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5572 Proseminar in a Major Literary Figure: 3 semester hours.
Intensive study in a single major author other than Chaucer, Milton, and Shakespeare. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5573 Chaucer: 3 semester hours.
Intensive study of selected works of Chaucer. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5574 Milton: 3 semester hours.
Intensive study of selected works of Milton. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5576 Shakespeare: 3 semester hours.
Intensive study of selected works of Shakespeare. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5577 Shakespeare in Performance: 3 semester hours.
Intensive study of selected works by Shakespeare, with emphasis placed upon performance issues. Includes field trip to attend live dramatic productions of Shakespearian plays. PREREQ: Classified Graduate Status or Permission of the Instructor
ENGL 5580 Varieties of American English: 3 semester hours.
In-depth study of various dialects of American English, including historical evolution of different dialects, effects of migration on dialects, and influences of non-English immigrant languages on development of American English. Fieldwork studying the Snake River dialects of Idaho. Equivalent to ANTH 5580. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5581 Studies in Grammar: 3 semester hours.
Focus on the study of transformational-generative grammar and its application to sentence level problems. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5584 Special Topics in Linguistics: 3 semester hours.
Rotating topics in different areas of linguistics. Consult current schedule of classes for exact course being taught. May be repeated. PREREQ: ANTH/LANG/ENGL 1107. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5585 Linguistic Analysis: 3 semester hours.
Advanced topics course in the techniques of language analysis. Examples are phonology and morphology, semantics, or rhetorical grammar. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5586 Old English: 3 semester hours.
Intensive study of the Old English language, with attention to its intrinsic structure and its relation to Middle and Modern English. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5587 History of the English Language: 3 semester hours.
Linguistic and historical study of the major changes and developments in the English Language. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5588 Introduction to Sociolinguistics: 3 semester hours.
Study of the patterned covariation of language and society, social dialects and social styles in language; problems of bilingualism, multilingualism, creoles and language uses. Equivalent to ANTH 5550. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5590 Topics in Folklore: 3 semester hours.
Focused study of an issue in folkloristics or a particular genre of folklore, including history of the scholarship concerning that issue or genre. Rotating topics. Repeatable with different topics. Equivalent to ANTH 5590. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5592 Folklore and Literature: 3 semester hours.
Study of cross-influences between oral and written literatures. Emphasis may be on a written genre that imitates and draws upon oral genres, a movement or period in which oral tradition strongly influences written forms, or a particular writer who incorporates motifs and storytelling patterns from folklore. Rotating topics. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. May be graded S/U. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6610 Careers in English: 1 semester hour.
Preparation for English job searches and teaching careers. Does not count toward degree requirements. Graded S/U. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6611 Literary Theory and Criticism: 3 semester hours.
Focused study of selected literary theories/critical approaches and their applications. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6612 Introduction to Graduate Studies in English: 3 semester hours.
Introduces students to major literary theories and approaches and trains them in scholarly research methods. Requires development of a substantial research proposal. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6613 Literary Bibliography Manuscripts and Editing: 3 semester hours.
Training in bibliographical, manuscript, and/or editing methodologies relevant to English. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6621 Seminar in a Major Literary Genre: 3 semester hours.
Focused study of the theory and conventions of a major form (such as lyric poetry or novel) or a broader genre (such as realism, pastoral, or the fantastic). Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6623 Seminar in Literary Themes: 3 semester hours.
Focused study of literature cohering around thematic content (such as religion, exploration, or diaspora). Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6625 Seminar in a Literary Period: 3 semester hours.
Focused study of a literary period and issues in periodization. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6627 Seminar in Major Literary Figures: 3 semester hours.
Focused study of the writings of one or two major writers. Critical and biographical topics and historical significance may be considered. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6630 Special Topics in Pedagogy: 3 semester hours.
Focused study of topics regularly covered in ENGL 6631, ENGL 6632, or ENGL 6633. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6631 Seminar in Teaching Writing: 3 semester hours.
Systematic application of contemporary composition theory to the teaching of writing; includes readings in and discussion of theories, research issues, and practices relevant to effective teaching and learning in composition classrooms. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6631L Teaching Composition Lab: 1 semester hour.
Lab for English 6631. Experiential training for new M.A. TAs. Requires attending graduate faculty mentor's English 1101, regular meetings with mentor, teaching five times, and supervised grading. Graded S/U with written report by mentor. Required of first-semester M.A. TAs. Does not count toward degree requirements. PREREQ or COREQ: ENGL 6631. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6632 Seminar in Teaching Literature: 3 semester hours.
Theoretical and practical approaches to teaching literature and literary interpretation at the undergraduate level, with attention to issues in course design and implementation, such as designing syllabi, leading discussion, and grading papers. PREREQ: Classified Graduate Status or Permission of the Instructor
ENGL 6633 Seminar in Teaching Business and Professional Writing: 3 semester hours.
Preparation to teach undergraduate business and technical writing courses, including the nature and history of business and technical writing, as well as attention to practical issues in teaching, such as pedagogical strategies, textbook choice, and research design. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6635 Special Topics in the Teaching of English: 3 semester hours.
Focused study of topics in English pedagogy that are not regularly covered in ENGL 6631, ENGL 6632, ENGL 6633, ENGL 6681, or ENGL 6682. Repeatable with different topics. PREREQ: Classified Graduate Status orPermission of the Instructor

ENGL 6640 Interdisciplinary Seminar: 3 semester hours.
Focused study of a literary or literary-related problem or subject using the theories and methods of literature and other closely-related disciplines such as folklore, communications, rhetorical studies, history, linguistics, or anthropology. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6642 Seminar in Oral and Popular Culture: 3 semester hours.
Focused study of a body of oral and/or popular cultural expression in related historical and cultural contexts with emphasis on literary connections. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6650 MA Thesis: 1-6 semester hour.
Master's thesis. Optional. Graded S/U. May be repeated

ENGL 6651 MA Paper: 1-3 semester hour.
Substantial revision of a graduate paper to produce a manuscript suitable for submission to a peer-reviewer publication in the field. M.A. Program only. Optional. Graded S/U. May be repeated. Up to 3 credits may count toward degree requirements

ENGL 6662 Seminar in Creative Writing: 3 semester hours.
Advanced study of creative writing. Course involves intensive readings in one or more selected genres (poetry, prose, drama), analyzed from the perspective of criticism and craft, and the development of course-related writing projects. PREREQ: ENGL 5506 or equivalent. Repeatable with different topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6680 Introduction to Linguistics: 3 semester hours.
Introduction to fundamental concepts and methodologies of modern linguistics, including phonetics, phonology, morphology, syntax, semantics, sociolinguistics, programmatic, and language acquisition. May include opportunities to explore the practical application of course topics. PREREQ: Classified Graduate Status or Permission of the Instructor

ENGL 6681 Theory of Second Language Acquisition: 3 semester hours.
The course will: 1) address theories describing the processes underlying second language acquisition, as well as relevant research, 2) consider what conditions increase the likelihood of successful second language acquisition, and 3) review the implications of 1 and 2 for second language learning and teaching. PREREQ: Classified Graduate Status or Permission of the Instructor

History

Faculty
Chair and Professor
Marsh
Professors
Kuhlman
Njoku

Assistant Professors
Kole de Peralta
Stover
Youngs
**Lecturer**
Sivitz

**Professors Emeriti**
Christelow, A.
Christelow, S.
Hatzenbuehler
Owens
Swanson

**Adjunct Professors**
Benedict
Leibert
Reinke

**Research Faculty**
Edsall

Master of Arts in Historical Resources Management

The M.A. in Historical Resources Management trains students to apply sophisticated information technologies to a rigorous analysis of historical problems. Emphasis is placed on a practical, interdisciplinary approach to applied history research, using new technologies to examine changes through time and place. Students within this innovative program choose between two concentrations or "tracks."

1. The GIS track combines the use of geographic information systems (GIS) and related information technologies with historical research methods to conduct spatial analyses of the past. ISU is an internationally recognized center in applying GIS to historical research, and students may work closely with the award-winning ISU GIS Teaching and Research Center. Geotechnology is a powerful tool and a highly sought skill in many job sectors where demand far exceeds the supply of trained graduates. This technological training complements the fundamental historians' skills of research, analysis, and writing that are always in demand.

2. The Digital Media track focuses upon using a variety of media tools to communicate historical information and interpretation. Students learn techniques of web design, museum displays, visualization, and scholarly publishing. Graduates will conduct significant historical research and present interpretations in a variety of engaging and effective formats.

Students in both tracks complete an internship that develops skills in analysis, collaboration, and communication. Both options emphasize individual research into historical documents and publication or presentation by students in a variety of formats. Students receive strong training that will enable graduates to compete successfully for a wide variety of jobs with businesses and educational, government, and private agencies and to prepare them for further graduate study.

**Admission Requirements**

The student must apply and meet all criteria for admission to the Graduate School. In addition, the student must comply with the following departmental requirements:

1. Applicants must submit three letters of recommendation, at least two of which should be from individuals familiar with their academic work.
2. Applicants should have at least 12 credits of previous course work in history at the upper-division level.
3. Applicants planning to pursue the GIS track must have taken GIS for Social Sciences, Principles of Geographic Information Systems, an equivalent class, or present evidence that such a course will be completed prior to entering the Historical Resources Management master’s program. Note: student’s lacking this prior training may be admitted for the GIS track in the spring semester upon condition that they take one of these GIS classes during that first semester.
4. Applicants must submit, as part of their admissions application, a statement of interest in historical studies and personal goals that identifies which track the student wishes to pursue. Particular attention should be given to explaining how these interests and goals relate to a particular track within the Historical Resources Management master’s program.
5. To be successful, an applicant must receive the support of someone in the department willing to chair the applicant’s graduate committee.

**General Requirements**

1. A minimum of 30 semester credits, at least 15 of which must be at the 6600-level.

2. **Core Courses (complete all of the following classes):**

   - HIST 5590 Cartography History and Design 3
   - HIST 5590L Cartography Lab 1
   - HIST 6600 Graduate Proseminar 3
   - HIST 6610 History in the Digital Age 3
   - HIST 6642 Conferences and Grants 3

3. **Track-specific Requirements:**

   **Digital Media Track**
   - MC 5570 - Communication through Web Design 3

4. An internship (HIST 6664) is required for a minimum of 3 credits.

5. **Electives:** at least enough credits at the 5500- and/or 6600-level beyond the required core courses and internship to reach the credit requirements stated in Item #1 previously. At least 3 of these credits must be for individual research, usually either HIST 6645 or HIST 6650.

6. **There will be a final oral examination.** For students pursuing the thesis option, the examination will be based on the thesis. For those with the non-thesis option, the examination will be based on an independent research project and/or internship work. The format of the non-thesis option examination will be flexible in order to accommodate a wide variety of possible student experiences.

**Courses**

**HIST 5505 Problems in History: 3 semester hours.**
A thorough consideration of historical problems, particularly from a comparative perspective. Designed to give deeper insight into problems, issues, and topics which are treated more generally in other courses. May be repeated with different content

**HIST 5511 Intro to Museum Studies: 2 semester hours.**
History, philosophy, purposes, organization and administration of museums. Practical work in collections management and museum interpretation. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

**HIST 5518 US History for Teachers: 3 semester hours.**
U.S. history from indigenous cultures through modern America. Based on Idaho Department of Education Standards for High School Students. PREREQ: Permission of instructor
HIST 5521 Federal Indian Relations: 3 semester hours. 
This course provides a legal-historical examination of the relationship between North American tribal peoples and the U.S. federal government between 1750 and the present. Special emphasis will be placed on Indian removal, assimilation policy, treaty negotiation, the Dawes Severalty Act, education policy, Indian reorganization policy, and termination

HIST 5523 Idaho History: 3 semester hours. 
A survey of the social, cultural, environmental, and political history of Idaho from pre-contact indigenous cultures to the present, emphasizing Idaho's relation to other states and regions in the West

HIST 5525 Women in North American West: 3 semester hours. 
Comparative examination of the varied experiences of women in the North American West. Analyzes perceptions of women and women's views of themselves, women's activism, and women's cultural activities. Places special emphasis on the use of non-textual historical sources in uncovering the past lives of North American women

HIST 5527 North American West: 3 semester hours. 
History of the North American West from pre-contact indigenous cultures to the present, with an emphasis on exploration, settlement, ethnic groups, borderlands, environment, federal policy, and cultural depictions

HIST 5529 Foreign Relations since 1900: 3 semester hours. 
An introduction to the history of international relations in the twentieth century. This course emphasizes the impact of wars on various peoples and cultures, anti-colonialism and the rise of the so-called Third World, and the processes of political, cultural and economic globalization.

HIST 5530 Global Environmental History: 3 semester hours. 
Comparative examinations of historical interactions between humans and environmental factors in various time periods and regions throughout the world, and an assessment of their impacts on historical change

HIST 5535 Colonial Frontiers in America and Africa: 3 semester hours. 
A comparative examination of exploration, conquest, and resistance, and the interaction of cultures in frontier settings. Examines both the realities of the frontier and their impact on Western thought and imagination

HIST 5537 Families in Former Times: 3 semester hours. 
Reconstructs the marriage patterns and domestic lives of people in pre-industrial Europe (1000-1700 AD)

HIST 5538 Women in Pre-Industrial Europe: 3 semester hours. 
Compares and contrasts the social, cultural, and economic roles of women from 700-1700 AD, and analyzes the impacts of historical change on their lives

HIST 5539 Feminism and Equality in World History: 3 semester hours. 
Comparative study of the history of feminism and women's rights in different world regions, involving the social constructs of gender, race, and class. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

HIST 5541 The Viking Age: 3 semester hours. 
Studies the cultures and societies of Scandinavia, England and continental Europe from 700 to 1100 AD

HIST 5543 English History: 3 semester hours. 
Survey of the most important British political, constitutional, economic, and cultural developments from Anglo-Saxon times to the Victorian Period

HIST 5544 Victorian England and After: 3 semester hours. 
England, 1837 to the present. An examination of the cultural, social, political, and economic history of the most prosperous and productive period of English history, including British national and imperial decline in the twentieth century

HIST 5546 Social and Economic History of Greece and Rome: 3 semester hours. 
Investigates ways in which geography, demography, and politics affected the mentalities and behaviors of social groups, women, patrons, clients and slaves, and the functioning of households, villages and cities

HIST 5548 Medieval Social and Economic History: 3 semester hours. 
Analyzes the impact of political instability, migration and environment upon Europeans (AD 200 - 1400)

HIST 5550 Golden Age Castile: 3 semester hours. 
History of a major European country in an age of globalization, military revolution, religious conflict, and significant cultural development, 1450-1700

HIST 5553 Renaissance Creativity: 3 semester hours. 
Examination of the conditions promoting individual creativity among Europeans in the first global age, 1400-1700. Special emphasis on geospatial research on the history of printing

HIST 5560 The Global Hispanic Monarchy: 3 semester hours. 
The African, American, Asian, European, and Oceanic domains of the Iberian Habsburg dynasty, especially those of Castile and Portugal, whose officials and subjects created and maintained many of the communications routes that defined the first global age. Students prepare geospatial datasets on these routes

HIST 5561 Independent Study:US: 1-3 semester hour. 
Selected readings in areas and periods not covered by the regular curriculum offerings. 1-3 credits. May be repeated. PREREQ: Previous upper-division course work in the subject area, with a minimum grade of A- and GPA of 3.5 in all History courses. Permission of instructor and approval by the department chair

HIST 5562 Independent Study:Europe: 1-3 semester hour. 
Selected readings in areas and periods not covered by the regular curriculum offerings. 1-3 credits. May be repeated. PREREQ: Previous upper-division course work in the subject area with a minimum grade of A- and GPA of 3.5 in all History courses. Permission of instructor and approval of department chair

HIST 5563 Independent Study:World Regions: 1-3 semester hour. 
Selected readings in areas and periods not covered by the regular curriculum offerings. 1-3 credits. May be repeated. PREREQ: Previous upper-division course work in the subject area with a minimum grade of A- and GPA of 3.5 in all History courses. Permission of instructor and approval by the department chair

HIST 5565 US Political History: 3 semester hours. 
Study of the political history of the United States involving a discussion of theories of popular voting behavior, critical elections, and political party systems. Equivalent to POLS 5565

HIST 5571 Historical Geography of Idaho: 3 semester hours. 
Influences of geography and geology on Idaho's economic, political and cultural history. May be team taught, and includes field trips, discussion sections. Equivalent to GEOl 5571 and POLS 5571

HIST 5574 Islam and Nationalism in the Modern World: 3 semester hours. 
A study of the interaction of Islam and national and ethnic identities in the Middle East including North Africa from 1800 up to the recent past

HIST 5578 Imperialism and Progressivism: 3 semester hours. 
A study of the world 1880-1920. Movements of change within the West, Third World responses to the Western challenge, and global crisis

HIST 5579 Disease and US Public Health: 3 semester hours. 
A survey of health, disease, and public health developments in American history. The course takes a broad approach to health, but includes the development of public health offices, the role of disease in society, specific diseases and related eradication programs, and questions related to health, equity, and civil liberties
Music

Chair and Professor: Thomas Hasenpflug

Professors: Bond, Brooks, Dienstfrey-Swanson, Earles, Gross, Lane, Livingston, Friedley, Schroder, Young

Idaho Museum of Natural History

Director, Research Curator and Anthropology Division Head; Director, Idaho Virtualization Laboratory; Director, Center for Archaeology, Materials, and Applied Spectroscopy; and Anthropology Research Professor: Maschner

Anthropology Collections Manager (IMNH): Tews

Earl R. Swanson Archaeological Repository Manager (IMNH): Comendador-Dudgeon

Mission Statement

The mission of the Idaho Museum of Natural History is to acquire, preserve, study, interpret, and display objects relating to the natural history of Idaho and the Northern Intermountain West for research and education. The Museum seeks to enhance in the citizens of Idaho and visitors an understanding of and delight in Idaho’s natural and cultural heritage. Specific areas of interest encompass the anthropology, botany, geology, paleontology, and zoology of Idaho and the Northern Intermountain West. Audiences served include citizens of Idaho, visitors, and the national and international community of students and scholars. Information is disseminated through exhibitions, public and professional presentations, publications, formal and informal education, telecommunications, and other interpretive programs.

Courses

MUSE 5550 Independent Study in Museum Methods: 1-3 semester hour.

Individual projects based on student's background and interests. Could include, but not limited to, advanced work in collections management, exhibit design and construction, museum education, or administration. May be repeated up to 6 credits. PREREQ: MUSE 4411 or permission of instructor

HIST 5589 GIS for Social Sciences: 3 semester hours.

An introduction to geographic information systems theory and applications focusing on subjects related to human systems in historical context (census, health, urban communities, etc.). Students will work directly with GIS software and learn foundational data management and processing skills along with introductory spatial analysis. Requires competence in computer operating systems. S

HIST 5590 Cartography History and Design: 3 semester hours.

History of how map-makers represent geographic, spatial data. Special attention to the elements of successful cartographic design. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: HIST 5590L

HIST 5590L Cartography Lab: 1 semester hour.

Focuses on the application of Cartographic design concepts and techniques discussed in lecture. Provides students with hands-on practice designing map products of publication quality. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: HIST 5590

HIST 5591 Seminar: 3 semester hours.

Reading, discussion, and preparation for research papers on selected topics

HIST 5597 Professional Education Development Topics: 1-3 semester hour.

A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. May be graded S/U

HIST 5599 Experimental Course: 1-6 semester hour.

This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

HIST 6600 Graduate Proseminar: 3 semester hours.

Introduction to graduate studies. Focus on contemporary historiographical debates, with emphasis on understanding significant developments in the profession. May be repeated with different topics. PREREQ: Admission to the Historical Resources Management Program

HIST 6610 History in the Digital Age: 3 semester hours.

Seminar exploring the developing field of digital history and investigating multiple tools for analysis and presentation. The course examines how geographic information systems and other digital tools are changing the field of history. Emphasis placed on students developing their own project proposals

HIST 6621 Seminar Interdisciplinary Topics in Social Sciences: 3 semester hours.

Examination of selected topics in the social sciences from the analytic orientations and perspectives common and peculiar to the disciplines of political science, economics, sociology, and history

HIST 6642 Conferences and Grants: 3 semester hours.

Emphasizes visual and oral skills for disseminating research to professional audiences. Students will develop and organize a campus-wide colloquium highlighting graduate research. Provides an introduction to grant writing with a focus upon funding sources for the social sciences and humanities

HIST 6645 Independent Research Project: 1-6 semester hour.

Individual research project employing Geographic Information Systems. Topic selected by the student. 1-6 credits. May be repeated up to six credits. PREREQ: Permission of instructor who will direct the project and of the student's Historical Resources Management Graduate Committee

HIST 6650 Thesis: 1-9 semester hour.

Open to students seeking the M.A. in Historical Resources Management with the thesis option. 1-9 credits. May be repeated

HIST 6664 Graduate Internship: 3-12 semester hour.

Supervised experience in the application of Geographic Information Systems (GIS) and other relevant Information Technologies to a historical project in a collaborative work environment. 3-12 credits. May be repeated. PREREQ: Permission of instructor who will direct the internship and of the student's Historical Resources Management Graduate Committee

HIST 6699 Experimental Course: 1-6 semester hour.

This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated
Associate Professors: Harwood

Assistant Professors: Ballam, Cha, Harville, S. Helman, Kloss


**Master of Education in K-12 Education / Music Education**

The master's degree in Music Education is a degree program housed in the College of Education and presented in collaboration with the Department of Music. For admission into this program, apply first to the College of Education Department of Educational Foundations. Music content courses are listed in this section.

The master's degree in Music Education is designed to strengthen the student’s understanding, knowledge, and skills in three major areas — Core Professional Studies, Specialty Studies, and Integrative Field Research Studies — as they relate to music education. The program 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.

**Admission Requirements**

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition to the general requirements of the Graduate School, individuals applying for admission to the Master of Education/Music Education, must meet the following admission requirements:

- Bachelor’s degree in music from an accredited college or university.
- Completion of entrance examinations in music history and music theory. Students whose examination indicate deficiencies will be granted Classified (w/PR) status. Any course used to remove deficiencies does not count toward the degree. When deficiencies have been removed, the student may seek Classified status.
- It is expected that students will meet basic requirements for public school certification.

**General Requirements**

Students complete a minimum of 36 semester credit hours for the master’s degree. Students seeking Idaho Certification in the area of their training must meet any requirements of the State Board of Education for certification. It is recommended that students have professional experience in an education context.

**Education Core**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC 6601</td>
<td>Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6602</td>
<td>Theories of Learning</td>
<td>3</td>
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<tr>
<td>EDUC 6610</td>
<td>Applied Educational Statistics</td>
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**Pedagogy and Content**

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<th>Title</th>
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<tbody>
<tr>
<td>MUSC 5515</td>
<td>Seminar in Band Music</td>
<td>2</td>
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<tr>
<td>or MUSC 5516</td>
<td>Seminar in Choral Music</td>
<td></td>
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<tr>
<td>or MUSC 5518</td>
<td>Seminar in Orchestral Music</td>
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<tr>
<td>MUSC 5545</td>
<td>Advanced Instrumental Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 5546</td>
<td>Advanced Choral Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUSC 6601</td>
<td>Foundations in Music Education</td>
<td>3</td>
</tr>
<tr>
<td>MUSC 6610</td>
<td>Practicum in Rehearsal Techniques</td>
<td>2</td>
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<tr>
<td>MUSC 6671</td>
<td>Music Education Seminar</td>
<td>3</td>
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<tr>
<td>Graduate Performance Ensemble (2 semesters)</td>
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**Music History/Theory Elective**

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<tbody>
<tr>
<td>MUSC 5560</td>
<td>History of Western Music</td>
<td>3-6</td>
</tr>
<tr>
<td>MUSC 5570</td>
<td>Theory of Western Music</td>
<td>3-6</td>
</tr>
<tr>
<td>MUSC 5580</td>
<td>History of Western Music</td>
<td>3-6</td>
</tr>
<tr>
<td>MUSC 5590</td>
<td>Theory of Western Music</td>
<td>3-6</td>
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**Total Hours**

<table>
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<tr>
<th>Credits</th>
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<td>33-37</td>
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</tbody>
</table>

**Music:Applied Lessons Courses**

- **MUSP 5521 Applied Music Lessons Piano**: 1-3 semester hour. Private lessons in piano. May be repeated
- **MUSP 5531 Applied Music Lessons Voice**: 1-3 semester hour. Private lessons in voice. May be repeated
- **MUSP 5541 Applied Music Lessons Organ**: 1-3 semester hour. Private lessons in organ. May be repeated
- **MUSP 5561 Applied Music Lessons Strings**: 1-3 semester hour. Section 1, Violin; Section 2, Viola; Section 3, Cello; Section 4, String Bass; Section 5, Classical Guitar. May be repeated
- **MUSP 5565 Applied Music Lessons Brass**: 1-3 semester hour. Section 1, Trumpet; Section 2, French Horn; Section 3, Euphonium; Section 4, Trombone; Section 5, Tuba
- **MUSP 5575 Applied Music Lessons Woodwinds**: 1-3 semester hour. Section 1, Flute; Section 2, Clarinet; Section 3, Oboe; Section 4, Bassoon; Section 5, Saxophone
- **MUSP 5585 Applied Music Lessons Percussion**: 1-3 semester hour. Percussion instruments

**Music:Performance Courses**

- **MUSP 5566 Chamber Choir**: 1 semester hour. Reading, study and performance of representative literature for chamber choir. Emphasis is placed on the individual's contribution toward the highest of choral standards. May be repeated
- **MUSP 5567 Open Workshop**: 1 semester hour. Ensemble course devoted to the study and presentation of an opera
- **MUSP 5568 Instrumental Ensemble**: 1 semester hour. Ensemble training in various instrument combinations, such as string quartet and various woodwind and brass ensembles. Section 1, Woodwind Ensemble; Section 2, Brass Ensemble; Section 3, Percussion Ensemble; Section 4, String Ensemble; Section 5, Guitar Ensemble; Section 6, Keyboard Collaboration. May be repeated
- **MUSP 5569 Orchestra**: 1 semester hour. Sight reading of representative orchestral literature; orchestral routine, study, and public performance of major symphonic compositions including orchestral accompaniments
- **MUSP 5572 ISU Women's Choir**: 1 semester hour. Study, rehearsal and performance of traditional and non-traditional choral music for treble voices
- **MUSP 5573 Concert Choir**: 1 semester hour. Study and performance of the entire body of choral music. Includes several performances and concerts. Emphasis on attaining high musical standards and levels of choral-vocal proficiency
- **MUSP 5577 Symphonic Band**: 1 semester hour. Rehearsal and performance of traditional and contemporary wind literature in on- and off-campus concerts
- **MUSP 5578 Jazz Band**: 1 semester hour. Rehearsal and performance of standard and contemporary big-band literature. One or two concerts are given each semester
Music Courses

MUSC 5506 Opera Literature: 3 semester hours.
Masterworks of operatic literature

MUSC 5507 Symphonic Music Literature: 3 semester hours.
Masterworks of symphonic literature

MUSC 5508 Chamber Literature Music: 3 semester hours.
Masterworks of chamber music literature

MUSC 5511 Instrument Literature: 2 semester hours.
A study of instructional materials and literature for an orchestral instrument or guitar. PREREQ: Junior level standing in applied music or permission of instructor

MUSC 5512 Instrument Pedagogy: 2 semester hours.
A survey and comparative study of pedagogical materials, principles and procedures. Application of pedagogical techniques in teaching situations

MUSC 5513 Piano Literature: 2 semester hours.
A study of instructional materials and literature for piano

MUSC 5514 Piano Pedagogy: 2 semester hours.
A survey and comparative study of pedagogical materials, principles and procedures for piano. Application of pedagogical techniques in teaching situations

MUSC 5515 Seminar in Band Music: 2 semester hours.
Analysis and study of instrumental works from the Baroque to the present era with particular attention to performance practice

MUSC 5516 Seminar in Choral Music: 2 semester hours.
Analysis and study of choral works from the Renaissance through the present era with particular attention to performance practice

MUSC 5517 Advanced Conducting: 2 semester hours.
Designed for secondary school music teachers, this course provides opportunity to discover and analyze technical conducting problems in music of the various historical eras

MUSC 5518 Seminar in Orchestral Music: 2 semester hours.
Analysis and study of orchestral works from the Baroque to the present era with particular attention to performance practice. PREREQ: MUSC 3305 and MUSC 3306 or equivalent

MUSC 5519 Voice Literature: 3 semester hours.
Instructional materials and literature for voice

MUSC 5520 Voice Pedagogy: 3 semester hours.
A survey and comparative study of pedagogical materials, principles, and procedures for voice, with application

MUSC 5524 Music in the Baroque Era: 3 semester hours.
Intensive study of music from Monteverdi through J.S. Bach

MUSC 5525 Music in the Classical Era: 3 semester hours.
Intensive study of music in the Classical era, principally 1730 through Beethoven

MUSC 5526 Music in the Romantic Era: 3 semester hours.
Intensive study of music in the Romantic era, principally 1800 to 1900

MUSC 5527 Music in the Modern Era: 3 semester hours.
Intensive study of music in the Modern era, principally since 1900

MUSC 5529 Advanced Music History Survey: 3 semester hours.
Study of music history topics, including vocal and instrumental forms and styles

MUSC 5532 Instrumental Arranging: 2 semester hours.
Arranging music for different instrumental combinations and various textures

MUSC 5533 Composition: 2 semester hours.
Individual instruction in the organization of musical ideas into logical and homogeneous forms with an emphasis on contemporary styles. May be repeated up to 12 credits

MUSC 5535 Analysis of Musical Styles: 2 semester hours.
The techniques of stylistic analysis of music from the Baroque period through the 20th century

MUSC 5538 Special Topics in Music Theory: 2 semester hours.
Advanced studies in selected topics in music theory. May be repeated up to 6 credits with change of topic

MUSC 5539 Advanced Music Theory Survey: 3 semester hours.
Study of music theory methods, including harmonic and formal analysis

MUSC 5545 Advanced Instrumental Conducting: 2 semester hours.
Designed for secondary school music educators. Practical experience in analyzing and rehearsing instrumental conducting techniques for a wide variety of instrumental music. PREREQ: MUSC 3320

MUSC 5546 Advanced Choral Conducting: 2 semester hours.
Designed for secondary school music educators. Practical experience in analyzing and rehearsing choral conducting techniques for a wide variety of choral music. PREREQ: MUSC 3319

MUSC 5562 Studies in Music Curricula: 3 semester hours.
Study of historical, philosophical, and current issues in school music curricula

MUSC 5563 Psychology of Music: 3 semester hours.
Overview of music learning through concepts and trends in psychology such as perception, identity, and culture

MUSC 5591 Independent Study: 1-4 semester hour.
Supervised study in selected areas, primarily research, writing, or analysis. May be repeated to a maximum of 7 credits. PREREQ: Permission of instructor and Department Chair

MUSC 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. 1-3 credits. May be repeated. May be graded S/U

MUSC 5598P Prof Development Workshop: 3 semester hours.
New methods and opportunities to enhance and supplement skills. Subject to the approval of the Dean of the student's college, a maximum of eight credits earned in workshops may be applied toward a degree; students taking the courses only for personal development may choose the 0-credit option; those seeking professional development must choose a for-credit option

MUSC 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

MUSC 6601 Foundations in Music Education: 3 semester hours.
Historical, philosophical, and psychological foundations of music education, with their application to current instruction and evaluation

MUSC 6610 Practicum in Rehearsal Techniques: 2 semester hours.
Advanced techniques of ensemble rehearsal, including procedures, diagnostic and achievement evaluation, planning and pedagogy. PREREQ: MUSC 5515 or MUSC 5516, MUSC 5517
**MUSC 6650 Thesis Project: 1-4 semester hour.**
The student will present a public graduate recital, supervised by a faculty member in the music department. In addition to the recital, a paper will be submitted demonstrating extensive familiarity with research relative to the music performed in the recital. This paper will be written under the supervision of a faculty member from the College of Education and faculty members from the Music Department. The completed paper and recital are to be accepted by the examining committee and the paper filed with the dean of the College of Education. A recording of the recital will be filed with the music department. Graded S/U

**MUSC 6671 Music Education Seminar: 3 semester hours.**
Advanced examination of concepts, principles, models, and theories of instruction in music education. Seminar format requires active participation in readings, discussion, presentations, and written assignments. PREREQ: MUSC 6601 and MUSC 6610

**Theatre**

Chair and Professor: Thomas Hasenpflug

Professors: Bond, Brooks, Dienstfrey-Swanson, Earles, Gross, Lane, Livingston

Friedley, Schroder, Young

Associate Professors: Harwood

Assistant Professors: Ballam, Cha, Harville, S. Helman, Kloss


**Goals**

The primary objectives related to the graduate Theatre program are to help students develop the following competencies:

1. A highly developed understanding of the history and literature of the art.
2. The ability to read, understand, and critique scholarly theatre-related essays and books.
3. The ability to contribute to general theatre scholarship.
4. The demonstrated ability to continue with graduate work toward a terminal degree, whether a master's degree or doctorate.
5. To develop pedagogical skills enabling the students to pass on their knowledge to others.
6. Knowledge of theatre as a social and aesthetic experience.
8. Competence in basic acting and directing skills.
10. Knowledge of costume and scenic design principles.
11. Competence in acting and directing research skills.
12. Competence in technical aspects of costume and scenic design.
13. Ability to effectively communicate and work within a collaborative art.

**Admission Requirements**

The student must apply to, and meet all criteria for, admission to the Graduate School.

**General Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 6601</td>
<td>Introduction to Research in Drama</td>
<td>3</td>
</tr>
<tr>
<td>THEA 6641</td>
<td>Seminar in Drama Theory</td>
<td>3</td>
</tr>
<tr>
<td>THEA 6642</td>
<td>Seminar in Drama Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

**MUSC 6695 Graduate Recital: 2 semester hours.**

Public recital culminating from applied music study at the graduate level. Graded S/U

**MUSC 6699 Experimental Course: 1-6 semester hour.**

This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**THEA 6650 Thesis**

1-6

**Theatre Electives**

15-20

**Minimum Total Credits**

30

The Theatre electives may be selected from 5000- and 6000-level courses in Theatre or other graduate courses approved by the Theatre Director of Graduate Studies. Students may not register for a 5000-level course if they have already earned undergraduate credit in the equivalent 4000-level course, unless approval is obtained from the Theatre Director of Graduate Studies.

**Courses**

**THEA 5500 Theatre Backgrounds I: 3 semester hours.**

Theatre and drama, from their origins through the Jacobean period

**THEA 5501 Theatre Backgrounds II: 3 semester hours.**

Study of the theatre and drama from the Spanish Golden Age through the well-made play

**THEA 5502 Stage Costume History: 3 semester hours.**

A survey of the history of western clothing from Ancient Egypt through the present. Study of the social context and motivations behind the evolution of clothing, silhouette, and costume components

**THEA 5503 Stage Costume Design: 3 semester hours.**

Costume design for the theatre incorporating the influence of period, concept, and mood. Course work includes text analysis, research, drawing, painting, and collage

**THEA 5504 Problems in Acting: 3 semester hours.**

Focuses on special acting problems such as characterization, movement, voice, pantomime, and film and television acting. Content varies from year to year. May be repeated once with the consent of the instructor

**THEA 5505 Advanced Costume Construction: 3 semester hours.**

A study in period corset and millinery construction. A lab course in which students gain practical experience and skills crucial to a career in costume technology

**THEA 5506 Advanced Light Design: 3 semester hours.**

Study of lighting design in performing arts. Students gain knowledge through actualized projects, study of television and film lighting, and exploration of the Controllable properties including color

**THEA 5512 Scenic Painting: 3 semester hours.**

A study of painting techniques as used in theatrical scenery; theory, practice, and equipment will be investigated as they apply to the art of stage painting
THEA 5519 Modern European Theatre: 3 semester hours.
Continental and British theatre and drama from 1850 to mid-twentieth century

THEA 5520 American Theatre: 3 semester hours.
American theatre and drama from the beginning to mid-twentieth century

THEA 5521 Basic Pattern Drafting for Stage Costuming: 3 semester hours.
Cutting patterns from measurements. Adjusting various patterns to designs. Alterations and fittings

THEA 5522 Period Pattern Drafting for Stage Costuming: 3 semester hours.
Use of the basic patterns to reproduce historical costumes from the 12th century to 1950

THEA 5524 Advanced Acting Styles: 3 semester hours.
Study of the various period styles of acting including Greek, Medieval, Elizabethan, Restoration, and 19th century melodrama. The student will act in a series of special projects encompassing a variety of styles

THEA 5526 Advanced Scene Design: 3 semester hours.
Study of scene design in performing arts and beyond. Students work toward portfolio-quality work in realized and non-realized projects in theatre, television, film, and design areas

THEA 5555 Beginning Stage Direction: 3 semester hours.
Consideration of aesthetics of dramatic production and the relationship of basic techniques of stage direction. Includes the direction of scenes and short one-act plays. PREREQ: Permission of instructor

THEA 5556 Advanced Stage Direction: 3 semester hours.
Advanced theories in techniques of stage direction including consideration of period styles. The student will direct a series of advanced projects including scenes and a complete one-act play. PREREQ: THEA 5555 or permission of instructor

THEA 5570 Contemporary Theatre: 3 semester hours.
World drama and theatre during the five most recent decades

THEA 5590 Practicum Theatre Arts II: 1-3 semester hour.
Integrated projects for advanced students in various areas of theatre arts emphasizing analysis and presentation of experimental work. May be repeated for a maximum of four credits, with different content

THEA 5591 Independent Research Project II: 1-2 semester hour.
Under the supervision of the drama faculty, students will undertake special research projects in theatre. May be repeated once with different content

THEA 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. May be graded S/U

THEA 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

THEA 6601 Introduction to Research in Drama: 3 semester hours.
Research in Drama

THEA 6641 Seminar in Drama Theory: 3 semester hours.
Drama theory

THEA 6642 Seminar in Drama Theory: 3 semester hours.

THEA 6650 Thesis: 1-6 semester hour.
Thesis. 1-6 credits. May be repeated

THEA 6660 Graduate Degree Papers: 1-2 semester hour.
1-2 credits. May be repeated. Graded S/U

THEA 6691 Independent Study in Drama: 1-4 semester hour.
Supervised individual study in drama. Instructor's consent required. May be repeated for a maximum of 4 credits

THEA 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Political Science

Chair: Lybecker

Professors: Anderson, Gabardi, Lybecker, McBeth

Assistant Professors: Callen, Gleason, Hummel, Kirkpatrick

Adjunct Faculty: Eckert, Phippen

Emeritus Faculty: Burns, Foster, Hjelm, Maughan, Nilson

Doctor of Arts in Political Science

This program is intended for students interested in careers teaching political science in a variety of higher education settings ranging from community colleges to universities. Doctor of Arts recipients are prepared to teach a variety of political science courses including those in American politics and in two additional specialties selected from among the fields of public law, political theory, comparative/international politics, and public administration.

Doctor of Arts students will have three interdisciplinary options to choose from:

Option #1: Doctoral students will take 9 credits each in TWO of the following five cooperating social science departments: Anthropology, Economics, History, Psychology, and Sociology.

Option #2: Doctoral students will take 18 credits in ONE of the following five cooperating social science departments: Anthropology, Economics, History, Psychology, and Sociology.

Option #3: Doctoral students will take 18 credits from at least two of the five cooperating social science departments: Anthropology, Economics, History, Psychology, and Sociology built around an interdisciplinary theme such as methodology or theory (courses and theme must be preapproved by the chair of the student's doctoral committee).

The doctoral degree is generalist in nature. The emphasis is on a thorough grounding in political science supported by work in committee-approved social science disciplines. The program places emphasis on teaching political science rather than on the development of a narrow research specialty. A nine-credit-hour component of the program includes the development of pedagogical skills as well as sustained experience in the classroom.
Goals

1. Graduates will demonstrate literature-based knowledge in three sub-fields of political science.

2. Graduates will gain this knowledge of political science through an interdisciplinary approach that includes course work in one or two cognate social science disciplines.

3. Graduates will have extensive training in pedagogy, craft a distinct teaching philosophy, and demonstrate a variety of pedagogical techniques and skills.

4. Graduates will demonstrate their research skills by presenting their work at professional conferences and/or submitting their work for publication review.

5. Graduates will gain employment and establish their careers in higher education.

Master of Arts in Political Science

The mission of the Master of Arts (MA) program is to prepare students for future graduate study in political science by helping them develop knowledge and skill in political science and research methodology. This program emphasizes general preparation in political science and research.

Specific outcomes of the program include:

Goals

1. Graduates will master literature-based knowledge in two areas of political science.

2. Graduates will develop an understanding of political science research methodology and the role of research in academia.

3. Graduates will further their graduate careers by pursuing a doctorate in political science.

4. Graduates pursuing a terminal degree will find professional employment in education, public service, and business.

Objectives

1. Graduates will pass comprehensive examinations.

2. Graduates will present papers at professional conferences.

3. Graduates will be accepted into doctoral graduate programs.

4. Graduates will find employment in education, public service, and business.

Thesis/non-thesis options are available.

Areas of emphasis in the master's program are limited, because of the research nature of the degree, to American governmental institutions and political behavior, public law, political theory, public administration and comparative/ international politics.

Master's students are required to present themselves for comprehensive examination on their thesis and/or in two of the five areas of emphasis previously.

Master of Public Administration

The Master in Public Administration degree is an inter-university cooperative graduate program offered jointly by Boise State University, Idaho State University and the University of Idaho. The purpose of the program is to provide present and prospective public administrators with the basic intellectual preparation necessary to understand and to adjust to a changing and challenging environment, through an introduction to the theories and practices of administration, management and social science research as these relate to effective performance in public organizations.

The inter-university master's program has been designed in accordance with the Guidelines and Standards for Professional Master’s Degree Programs in Public Affairs and Public Administration prescribed through the National Association of Schools of Public Affairs and Administration (NASPAA).

Goals

1. Graduates will develop an appreciation of serving the public interest.

2. Graduates will respect the law and the Constitution.

3. Graduates will demonstrate personal integrity.

4. Graduates will promote ethical organizations.

5. Graduates will develop distinctive public administration skills.

6. Graduates will strive for professional excellence and updating of skills throughout their professional careers.

Doctor of Arts in Political Science

Admission Requirements

For full admission to the Doctor of Arts program, the applicant should have a cumulative GPA of 3.0 for the last two years of undergraduate study, an average score in the 50th percentile or above on any one of the three sections of the GRE exam, and a 3.5 GPA in all previous graduate study. The candidate must also submit to the Department of Political Science three letters of recommendation and a statement of his/her personal goals that will be weighted equally with the applicant’s GPA and GRE scores.

The program also employs an admission scoring system which awards D.A. applicants points based on the evaluation and scoring of four components:

1. Upper-division undergraduate GPA or GPA in an MA program
2. Scores on the Graduate Record Exam (GRE)
3. The quality of letters of recommendation
4. The quality of the applicant’s goal statement. Applicants who are slightly under official admission requirements may be admitted if they are given an overall favorable admissions score.

General Requirements

An applicant entering with a B.A. or B.S. degree must fulfill a minimum of 79 credit hours including the teaching internship and up to a maximum of six dissertation credits. No more than 18 interdisciplinary credit hours (exclusive of interdisciplinary seminars) count toward the 79 credit hour minimum requirement. Candidates have the option of completing the M.A. or M.P.A. in political science en route to the D.A.; if they choose the non-thesis M.A. or M.P.A. program, only 30 hours of course work from the M.A. or M.P.A. will apply to the Doctor of Arts program. Candidates entering the Doctor of Arts program with M.A. degrees must complete a minimum of 49 credit hours, including two full-time consecutive semesters in residence, including a maximum six hours of dissertation credit. The total length and number of credit hours of a student’s program, above the minimum, is dependent upon the student’s academic preparation and his/her committee’s recommendations.

Political Science

Doctoral students are examined in three fields of political science. For all doctoral students, the major field of American politics is required.
1. American Politics, and
2. Any two of the following fields:
   a. Public Law
   b. Political Theory
   c. Comparative/International Politics
   d. Public Administration

Doctor of Arts students are required to take nine hours of 6600-level seminar courses (not including POLS 6694 Seminar in College Teaching) selected from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 6611</td>
<td>Seminar Political Theory</td>
<td>3</td>
</tr>
<tr>
<td>POLS 6612</td>
<td>Seminar State and Local Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 6613</td>
<td>Seminar American Politics Behavior</td>
<td>3</td>
</tr>
<tr>
<td>POLS 6614</td>
<td>Seminar American Politics Institutions</td>
<td>3</td>
</tr>
<tr>
<td>POLS 6615</td>
<td>Seminar World Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

Students may repeat these courses, even from the same professor, as long as the subject matter is different. Each course can only be repeated once. D.A. students are required to complete POLS 5519 Political Research Methods, POLS 5519L.

Doctor of Arts students are also required to take POLS 8850 Dissertation, for a minimum of 3 credits.

Doctor of Arts students write a doctoral dissertation that may deal with either substantive disciplinary issues or pedagogical innovations or techniques. The D.A. student committee will consist of two political science faculty and a Graduate Faculty Representative (GFR). The student may request a professor from his/her interdisciplinary area to serve as the G.F.R.

After the successful completion of written comprehensive examinations, the D.A. student is required to present and defend a dissertation prospectus to the doctoral committee. The D.A. student may elect to have a public presentation of the dissertation prospectus (a colloquium) separate from the prospectus defense. When the candidate’s committee determines that the dissertation is ready for a defense, there will be a public presentation by the student followed by a closed and balloted defense of the dissertation with the candidate and the committee.

Pedagogy

Students must complete a nine-credit component of pedagogy to include POLS 6694, POLS 7702, and POLS 7703.

Interdisciplinary Component

Option #1

D.A. students will take 9 credits each in TWO of the following five cooperating social science departments: Anthropology, Economics, History, Psychology, and Sociology.

Option #2

D.A. students will take 18 credits in ONE of the following five cooperating social science departments: Anthropology, Economics, History, Psychology, and Sociology.

Option #3

D.A. students will take 18 credits from at least two of the following five cooperating social science departments: Anthropology, Economics, History, Psychology, and Sociology built around an interdisciplinary theme such as methodology or theory (courses and theme must be pre-approved by the chair of the student’s D.A. committee).

Interdisciplinary Classes

D.A. students must take POLS 6620 Seminar Philosophy of Social Science, and POLS 6621 Seminar Interdisciplinary Topics in Social Science.

Examinations

Comprehensive written examinations are administered at the conclusion of the program of study that test the candidate’s knowledge of three fields of political science. This occurs after all course work is completed and before the dissertation prospectus is defended.

Master of Arts in Political Science

Admission Requirements

The student must apply to, and meet all criteria for admission to the Graduate School. In addition to the general requirements of the Graduate School, a student must have achieved a cumulative GPA of 3.0 in upper-division undergraduate study, and submit official GRE scores. The applicant must also submit to the Department of Political Science three letters of recommendation and a statement of his/her personal goals that will be weighted equally with the applicant’s GPA and GRE scores.

The program employs an admission scoring system that awards M.A. applicants points based on the evaluation and scoring of four components:

1. upper-division undergraduate GPA;
2. scores on the Graduate Record Examination (GRE);
3. the quality of letters of recommendation; and
4. the quality of the applicant’s goal statement.

Students may choose a thesis or non-thesis program. The requirements for these respective options are detailed below.

Thesis Program

Requirements include a total of 36 credits in graduate level courses approved by the Department of Political Science and the Graduate School. Internship credits are not counted as part of the 36 total credit requirement. Required courses are POLS 5519 and POLS 5519L (Political Research Methods, 4 credits) and POLS 6650 (Thesis, 6 credits). Students must also complete course work in two sub-fields. Other requirements include a minimum of 15 credits (other than POLS 6650) taken at the 6600-level; a maximum of 9 credits of directed reading courses; a comprehensive oral examination that covers the student’s graduate course work and the literature in two sub-fields; and the M.A. thesis. The thesis may be defended a second time if the first defense is not satisfactory and further revisions are required.

Non-thesis Program

POLS 5519 Political Research Methods and POLS 5519L, are required. Other requirements include a total of 36 credits in graduate level courses approved by the Department of Political Science and the Graduate School; a minimum of 15 credits taken at the 6600-level; a maximum of 9 credits of directed reading courses; a comprehensive written examination that covers the student’s graduate course work and the literature in two sub-fields; and a final oral examination, which, like the final written examination, may be taken no more than twice. Internship credits are not counted as part of the 36 total credit requirement.

Masters of Public Administration

Admission Requirements

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with departmental requirements. Students may enroll in the
MPA program by applying to one of the participating universities. Acceptance by any one of the three universities admits a student into the MPA program. A matriculated student should complete graduate studies at the institution that offers the area of specialization that she/he wishes to emphasize. Each student’s program will be established by an advisory committee consisting of three faculty members. It is anticipated that students will come from widely differing academic preparations, since no specific undergraduate program is required in preparation for the MPA program. However, some course work in humanities and social sciences is essential to the foundation of the MPA program for all students.

In addition to the general requirements of the Graduate School, students seeking admission must have completed a baccalaureate degree from an accredited institution, demonstrate satisfactory academic competency by attaining a cumulative GPA of 3.0 in upper-division undergraduate course work, or a 3.5 GPA in previous graduate courses, submit official GRE scores, submit three letters of recommendation from individuals who are qualified to evaluate the applicant’s academic potential, and submit a statement of the student’s personal goals. The letters and statement of goals will be weighted equally with the applicant’s GPA and GRE scores. Please contact the Department for specific guidelines for letters of recommendation and statement of goals.

The program employs an admission scoring system that awards MPA applicants points based on the evaluation and scoring of four components:

1. upper-division undergraduate GPA or GPA in an M.A. program;
2. scores on the Graduate Record Examination (GRE);
3. the quality of letters of recommendation; and
4. the quality of the applicant’s goal statement.

General Requirements

The MPA degree may be achieved through the successful completion of at least 39 semester credit hours of approved course work plus 3 credits of public service internship. The internship requirement may be waived for students who have substantial professional work experience in public service or the not-for-profit sector. The MPA director will determine if a student’s experience is substantial, and if so can approve waiver of the internship requirement. Twenty-seven credit hours must be completed in courses selected from prescribed “core areas” with 12 additional credit hours completed in designated optional areas of emphasis. Students may follow a thesis or non-thesis option in pursuing the MPA. Students choosing to write a thesis (POLS 6650 - 6 credits) do so in addition to normally MPA course work and internship requirements. The thesis is written in lieu of the comprehensive written examinations. Students must have completed 24 credit hours of core course work before taking the Capstone in Public Administration course. Those following the thesis option will complete an oral examination covering the thesis and program course work. The non-thesis option requires an oral examination over program course work. The academic program of each student must satisfy the general requirements of an integrated program designed to meet career objectives of the student in public administration.

Core and Optional Area Requirements

The specific course requirements of the MPA program are set forth in a list of courses that has been approved by the inter-university committee.

This list is available through each of the cooperating universities. Courses are available at each institution in the “core areas.” The optional “areas of emphasis” may vary among the universities according to the resources and competence that exist in the respective departments. A description of those areas of emphasis that are presently operational at each institution and admission forms to the MPA program are available through the Political Science Department at Idaho State University or the Departments of Political Science at Boise State University or the University of Idaho.

Interdisciplinary Specialized Area in Criminal Justice

For the specialized area in Criminal Justice, students need to take the 9 core courses (27 credits) and three credits of internship (for students without career experience) required for the MPA program and take additional 12 credits from the courses listed below to fulfill the elective requirements. The specialized area is an interdisciplinary curriculum shared between the Department of Political Science and the Department of Sociology, Social Work and Criminal Justice. Other courses appropriate to the Criminal Justice emphasis may be offered by both departments and can be taken by the student with permission of the MPA advisor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 5531</td>
<td>Criminology</td>
<td>3</td>
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<tr>
<td>SOC 5592</td>
<td>Topics in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>SOC 5536</td>
<td>Elite Deviance and Crime</td>
<td>3</td>
</tr>
<tr>
<td>SOC 5538</td>
<td>Sexual Crimes</td>
<td>3</td>
</tr>
<tr>
<td>POLS 5542</td>
<td>Constitutional Law</td>
<td>3</td>
</tr>
<tr>
<td>POLS 5543</td>
<td>Civil Rights and Liberties</td>
<td>3</td>
</tr>
</tbody>
</table>

Other courses with variable topics such as SOC 6601, SOC 6621, SOC 6613, or SOC 6605 may be taken if these courses are offering a Criminal Justice theme.

I. Core Area Requirements

All students must take 27 credit hours of core area courses. Students must choose nine courses from this list, one of which is POLS 6680 Capstone in Public Administration.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>POLS 6680</td>
<td>Capstone in Public Administration</td>
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Select eight of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>POLS 5505</td>
<td>Democracy and Governance</td>
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</tr>
<tr>
<td>POLS 5541</td>
<td>Administrative Law</td>
<td></td>
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<tr>
<td>POLS 5551</td>
<td>Public Organizational Theory</td>
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<tr>
<td>POLS 5552</td>
<td>Public Budgeting and Finance</td>
<td></td>
</tr>
<tr>
<td>POLS 5553</td>
<td>Public Policy Analysis</td>
<td></td>
</tr>
<tr>
<td>POLS 5554</td>
<td>Public Workplace Issues</td>
<td></td>
</tr>
<tr>
<td>POLS 5558</td>
<td>Public Administration Ethics</td>
<td></td>
</tr>
<tr>
<td>POLS 6622</td>
<td>Advanced Topics in Research</td>
<td></td>
</tr>
<tr>
<td>POLS 6623</td>
<td>Program Assessment</td>
<td></td>
</tr>
<tr>
<td>POLS 6680</td>
<td>Capstone in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>POLS 5519</td>
<td>Political Research Methods ¹</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 27

II. Specialized Areas

All students must take 12 credit hours from the list below. Courses used to fulfill a core requirement cannot also be counted here.

Specialized Area 1 State, Local and Non-Profit Administration

Required Course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 5567</td>
<td>State and Local Administration</td>
<td>3</td>
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</table>

Select three of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 5505</td>
<td>Democracy and Governance</td>
<td></td>
</tr>
<tr>
<td>POLS 5506</td>
<td>Intergovernmental Relations</td>
<td></td>
</tr>
<tr>
<td>POLS 5508</td>
<td>Urban Spaces</td>
<td></td>
</tr>
<tr>
<td>POLS 5509</td>
<td>Community and Regional Planning</td>
<td></td>
</tr>
<tr>
<td>POLS 5541</td>
<td>Administrative Law</td>
<td></td>
</tr>
<tr>
<td>POLS 5552</td>
<td>Public Budgeting and Finance</td>
<td></td>
</tr>
<tr>
<td>POLS 5553</td>
<td>Public Policy Analysis</td>
<td></td>
</tr>
</tbody>
</table>

¹ The POLS 5519 course is designed for students who have substantial professional work experience in public service or the not-for-profit sector. Students choosing to write a thesis (POLS 6650 - 6 credits) do so in addition to normally MPA course work and internship requirements. The thesis is written in lieu of the comprehensive written examinations.
POLS 5554 Public Workplace Issues  
POLS 5558 Public Administration Ethics  
POLS 5566 Public Lands Policy  
POLS 5578 Federal Indian Law  
POLS 5579 Tribal Government  
POLS 6612 Seminar State and Local Politics  
POLS 6616 Seminar Public Administration and Public Policy  
POLS 6623 Program Assessment  

These courses outside the Political Science department may be used to meet the state, local and non-profit administration concentration. No more than one course may be used to meet the requirement.  

Select no more than two of the following:  
- CMP 5522 Conflict Management  
- CMP 5524 Management Communication  
- ECON 5533 Economic Development  
- ECON 5539 State and Local Finance  
- HIST 5589 GIS for Social Sciences  
- SOC 5567 Community Networking: Cultivating the Sociological Imagination  
- SOC 6615 Social Institutions  

Total Hours 12  

Specialized Area 2 Environmental Administration  
Required courses:  
POLS 5555 Environmental Politics and Policy 3  
POLS 5566 Public Lands Policy 3  
or POLS 6606 Environmental Law and Regulation 3  

Select two of the following:  
POLS 5509 Community and Regional Planning 3  
POLS 5506 Intergovernmental Relations 3  
POLS 5553 Public Policy Analysis 3  
POLS 5558 Public Administration Ethics 3  
POLS 5566 Public Lands Policy 3  
POLS 6606 Environmental Law and Regulation 3  
POLS 6623 Program Assessment 3  

The following courses outside the Political Science department may be used to meet environmental administration concentration.  
- CMP 5520 Advanced Leader Communication  
- CMP 5522 Conflict Management  
- HIST 5589 GIS for Social Sciences  

Total Hours 12  

Appropriate science courses may be substituted with consent of the Master of Public Administration program director.  

Specialized Area 3 Public Health Administration 3  
Required course:  
MPH 6609 Seminar in Public and Community Health 3  

Select three of the following:  
- PHIL 6600 Ethics in Health Care ((This course is strongly recommended))  
- POLS 5505 Democracy and Governance 3  
- POLS 5553 Public Policy Analysis 3  

Total Hours 9  

Appropriate courses in the Master Public Health program may be substituted with consent of the Master of Public Administration program director.  

III. Public Administration Internship  
Each student must complete at least 3 and no more than 9 credit hours of an approved internship. Three credit hours of internship are equal to 200 hours of work as an intern. The internship requirement may be waived for students who have substantial professional work experience in public service of the not-for-profit sector. The MPA director may waive internship requirement for students with substantial professional work experience in public service of the not-for-profit sector will determine if a student's experience is substantial and be allowed to waive the internship requirement.  

Courses  
POLS 5501 Political Parties and Groups: 3 semester hours.  
The nature and development of political parties and pressure groups  
POLS 5503 The Presidency: 3 semester hours.  
Evolution and development of the office of the president; its major responsibilities in domestic and foreign affairs, with emphasis on particular power problems that confront the president  
POLS 5504 The Legislative Process: 3 semester hours.  
Nature and functions of the U.S. Congress. Topics covered: Legislative campaigns, the politics of law-making, congressional investigations, and major problems facing the Congress  
POLS 5505 Democracy and Governance: 3 semester hours.  
Critical exploration into theories and practices of governance in the contemporary United States. The class is intended for all students who have interest in the non profit and public sectors. Topics include public service, leadership, civic engagement, and participatory democracy  
POLS 5506 Intergovernmental Relations: 3 semester hours.  
Looks at federalism from a historical perspective with a focus on the institutions developed in the United States. The role of the federal government will be considered alongside the role of the states as it was initially conceptualized and how it is practiced today. The role of local governments in relation to the states is also considered  
POLS 5508 Urban Spaces: 3 semester hours.  
Interdisciplinary survey course of urban studies. Intended for students who have interest in local and urban politics, public art, social movements, sustainability, development, and social and democratic theory  
POLS 5509 Community and Regional Planning: 3 semester hours.  
The course engages students in discussion on planning topics ranging from the theoretical level to specific issues in planning. The course provides a firm understanding of contemporary thinking on planning issues so that current or future professional planners and academics can engage with the issues facing their community in a proactive and productive way  
POLS 5511 American Political Theory: 3 semester hours.  
Political ideas in the United States from Colonial and Revolutionary times through the controversies of the Civil War to the present  
POLS 5512 Modern Political Analysis: 3 semester hours.  
Methods of political inquiry and theories and doctrines of politics, with emphasis on modern developments
POLS 5518 Topics in Political Theory: 3 semester hours.
This course requires examination, analysis and investigation of selected texts and topics in political philosophy. May be repeated for a maximum of 6 credits

POLS 5519 Political Research Methods: 3 semester hours.
This class investigates the theory and application of various research methods and statistical techniques common to the social sciences, with particular reference to their use in political inquiry

POLS 5519L Political Research Methods Lab: 1 semester hour.
Application of, and practice in, research methods

POLS 5520 Contemporary Political Theory: 3 semester hours.
Recent political philosophies and theories ranging from democratic, Marxist, and existentialist thought to Critical Thought and post-modernism

POLS 5521 Democratic Political Thought: 3 semester hours.
Historical and contemporary models of democracy as well as contemporary debates in democratic thought. Democracy is treated as a contested idea

POLS 5525 Topics in International Politics: 3 semester hours.
This course requires examination, analysis and evaluation of selected topics in international politics. May be repeated for a maximum of 6 credits

POLS 5527 Voting and Public Opinion: 3 semester hours.
Analysis of the way citizens and government communicate with each other. Elections, public opinion, and media influence are studied

POLS 5532 Comparative Politics Change and Political Order: 3 semester hours.
The nature of political change is examined in a multifaceted framework consisting of concepts such as political order, progress and decay, revolutionary violence, and political culture. The technological and post-industrial revolutions are examined as they relate to political change and stability in developed societies

POLS 5533 Politics of Developing Nations: 3 semester hours.
Study of problems in the political analysis of rapidly changing and unstable "developing" nation states with an emphasis on problems of political, economic, and social development

POLS 5534 Terrorism and Political Violence: 3 semester hours.
A survey of forms of domestic and transnational terrorism, other forms of political violence, and problems of counter-terrorism

POLS 5535 Topics in National or Regional Studies: 3 semester hours.
Surveys the political, economic, and social issues of a nation or regions. May be repeated once for different topics

POLS 5541 Administrative Law: 3 semester hours.
Introductory survey of the legal principals defining governmental administrative processes. Topics include judicial review, tort liability of governments and offices, rules and rule-making, due process, and the limits of administrative discretion

POLS 5542 Constitutional Law: 3 semester hours.
Explores the way in which the three branches interact with each other and the state governments through the lens of Supreme Court decisions. While historical cases are examined, special emphasis is put on contemporary Court decisions

POLS 5543 Civil Rights and Liberties: 3 semester hours.
Explores the provision of civil rights and liberties, including First Amendment freedoms and criminal rights, through the lens of Supreme Court decisions. While historical cases are examined, special emphasis is put on contemporary Court decisions

POLS 5545 Jurisprudence: 3 semester hours.
Nature, source, and theories of law; the role of law in modern society; and the application of legal philosophy to the political system

POLS 5550 Special Topics in Law: 3 semester hours.
Examine and analyze selected topics in constitutional law and legal philosophy. Topics may include the constitution and foreign affairs, women and the law, law and literature, and law and film. May be repeated for up to 6 credits

POLS 5551 Public Organizational Theory: 3 semester hours.
Introduction to the study of complex organizations and organizational behavior in the administration of public policy. Emphasis on public and non-profit organizations

POLS 5552 Public Budgeting and Finance: 3 semester hours.
This course explores the dynamics of the budget process in government as well as detailed issues in budgeting and finance. The main objective is to provide the class with a thorough analysis of budgeting terms, methods and problems. The course covers general issues in budgeting, sources of revenues for government, economic development, and citizen participation

POLS 5553 Public Policy Analysis: 3 semester hours.
Theoretical and practical analyses of public policies, including theories of policy formation and their political implementation through governmental institutions. Case studies will provide the means of analyzing specific policy problems

POLS 5554 Public Workplace Issues: 3 semester hours.
Management of public and non-profit employees. Major topics include public employee rights, affirmative action, sexual harassment, disability, the political environment of public and non-profit organizations, and the impact of professionalism, technology, and participatory democracy on the management of public and non-profit employees

POLS 5555 Environmental Politics and Policy: 3 semester hours.
Study of the political forces affecting environmental policy and investigation of several specific policies affecting the environment, such as pollution control, energy production, hazardous chemicals, and the public lands

POLS 5556 Labor Organization: 3 semester hours.
Evolution of economic systems and labor's response to changing patterns of production is studied, and a counter perspective to traditional management views of "efficiency" is presented. Emphasis is on governmental employee unions

POLS 5557 Grantwriting: 3 semester hours.
Steps involved in the grantwriting process from strategic planning, research, writing, to finding appropriate grant sources

POLS 5558 Public Administration Ethics: 3 semester hours.
A course in applied ethics serving to educate students from a theoretical and a practical point of view. The course provides a historical and social perspective of ethics in public administration

POLS 5559 Public Service Internship: 1-9 semester hour.
Directed student internship related to public service in non-profits and community organizations, or state and local government. The student will be placed in a supervised position commensurate with their abilities as determined and approved by faculty in the department. Internships should be designed to compliment a student's research interest and be directed toward a future project or desired field of employment

POLS 5565 US Political History: 3 semester hours.
Study of the political history of the United States involving a discussion of theories of popular voting behavior, critical elections, and political party systems. Equivalent to HIST 5565

POLS 5566 Public Lands Policy: 3 semester hours.
Analysis of the historical and contemporary use and disposition of the federal public lands. The agencies that manage the public lands, major laws, and regulations and the political conflict that surrounds their use and conservation
POLS 5567 State and Local Administration: 3 semester hours.
Seminar in the practice and principles of state, municipal, and sub-state management. Emphasis is given to the evolution of interaction between different branches of sub-national government

POLS 5571 Historical Geography of Idaho: 3 semester hours.
Influences of geography and geology on Idaho's economic, political and cultural history. May be team taught and includes field trips, discussion sections. Equivalent to HIST 5571 and GEOL 5571

POLS 5578 Federal Indian Law: 3 semester hours.
Examination of tribal governments; their relationship with the federal government; sovereignty, jurisdictional conflicts over land and resources; and economic development. Equivalent to ANTH 5578

POLS 5579 Tribal Government: 3 semester hours.
Complex legal position of Indian tribes as self governing entities; principles of inherent powers; governmental organization, lawmaking, justice, relation to state and federal government. Equivalent to ANTH 5579

POLS 5591 Seminar: 1-3 semester hour.
Research, reading, discussion, and the preparation of reports on selected topics. Ordinarily for seniors majoring in political science and having the instructor's consent. Each course may be repeated for a total of 6 credits

POLS 5592 Seminar: 1-3 semester hour.
Research, reading, discussion, and the preparation of reports on selected topics. Ordinarily for seniors majoring in political science and having the instructor's consent. Each course may be repeated for a total of 6 credits

POLS 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. May be graded S/U

POLS 5598P Prof Development Workshop: 3 semester hours.
New methods and opportunities to enhance and supplement skills. Subject to the approval of the Dean of the student's college, a maximum of eight credits earned in workshops may be applied toward a degree. students taking the courses only for personal development may choose the 0-credit option; those seeking professional development must choose a for-credit option

POLS 5599 Experimental Topics: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

POLS 6606 Environmental Law and Regulation: 3 semester hours.
Federal, state, and local environmental regulations addressing environmental impact assessment; water and air pollution control, hazardous waste, resource recovery, reuses, toxic substances, occupational safety and health radiation, siting, auditing, liability. Equivalent to ENGR 6606. PREREQ: Permission of instructor

POLS 6608 Environmental Case Law: 3 semester hours.
The legal analysis of regulation as a method of controlling pollution and hazardous waste. PREREQ: POLS 6606

POLS 6609 Environmental Law Natural Resources: 3 semester hours.
Federal and Idaho statutes and regulations as they apply to natural resources such as public lands, endangered species, and the EIS process. PREREQ: POLS 6606

POLS 6611 Seminar Political Theory: 3 semester hours.
Review of the primary and recent literature of political theory

POLS 6612 Seminar State and Local Politics: 3 semester hours.
Analysis of state, local and regional political institutions and processes from the federal and comparative perspectives

POLS 6613 Seminar American Politics Behavior: 3 semester hours.
Micro inquiry and analysis into political behavior. Areas relevant to such inquiry may include but are not limited to, political psychology, political socializations, attitude and opinion formation, and voting behavior

POLS 6614 Seminar American Politics Institutions: 3 semester hours.
Macro inquiry and analysis into the basic institutional structures and processes of the American political system. Areas of emphasis include, but are not limited to, executive, legislative and judicial processes, political parties and interest groups

POLS 6615 Seminar World Politics: 3 semester hours.
World politics is analyzed both from the perspective of relationships between nation-states and the domestic political sources which influence and determine these relationships

POLS 6616 Seminar Public Administration and Public Policy: 3 semester hours.
Analysis of selected topics and academic literature in public administration and public policy

POLS 6620 Seminar Philosophy of Social Science: 3 semester hours.
The application of mathematical and scientific methods to the study of social, economic, and political life will be considered through the reading of seminal writings. Attention will be given to the fundamental assumptions about the nature of scientific rationality. Required of all D.A. students

POLS 6621 Seminar Interdisciplinary Topics in Social Science: 3 semester hours.
Examination of selected topics in the social sciences from the analytic orientations and perspectives common and peculiar to the disciplines of political science economics and sociology. Required of all D.A. students

POLS 6622 Advanced Topics in Research: 3 semester hours.
Emphasis on the role of research methodology in administrative decision-making. Topics to be covered include modeling, evaluation design, ethics, sampling, data collection, data processing, data analysis, and report writing

POLS 6623 Program Assessment: 3 semester hours.
Techniques and analytical methods of assessing governmental program success. Emphasis is given to program designs, data collection, ethics, and quantitative applications

POLS 6649 Research Problems: 1-6 semester hour.
Independent research on non-thesis and non-dissertation disciplinary questions. Credit hours and subject must be approved by instructor. May be repeated to a maximum of 6 credits. Graded S/U

POLS 6650 Thesis: 1-6 semester hour.
1 to 6 credits. May be repeated. Graded S/U

POLS 6669 Independent Problems-Tutorial: 1-3 semester hour.
A directed project emphasizing individual study, research, or the development of expository writings according to the needs of the individual student. May be repeated. Graded S/U

POLS 6680 Capstone in Public Administration: 3 semester hours.
Should be one of the last core courses taken in the MPA program. Integration of all core material into discussion around a number of cases; individual papers, small group projects and presentations

POLS 6694 Seminar in College Teaching: 3 semester hours.
Literature-based review of theory and practice for effective college teaching. Required of all D.A. candidates and must be successfully completed prior to matriculation in POLS 7702 or POLS 7703
psychology (breadth of knowledge) and also (ii) develop an expertise in their
future careers, students need to (i) have a solid foundation in basic areas of
program may pursue academic or non-academic careers. To prepare for their
psychology, and physiological psychology. Students who complete the doctoral
Doctoral training in Experimental Psychology provides students with education
Each goal has associated objectives and competencies.

Goals
Five program goals have been defined:
• research knowledge and skills;
• professional knowledge and skills;
• integration of science and practice;
• professional identification and ethical practice; and
• appreciation of individual differences, cultural differences, and diversity of
practice.

Doctor of Philosophy in Clinical Psychology
Doctoral training in clinical psychology is fully accredited by the American
psychological Association. All educational experiences needed to obtain a
license to practice psychology in Idaho, and most other states and provinces, are
offered. Theory, research, and practice are integrated into a comprehensive, five-
year program. It is the goal of the doctoral training program to produce clinical
psychologists who are well trained in the science of human behavior and its
application to diverse clinical populations. All students are required to participate
in course work and practica that emphasize assessments and treatments in all
major areas of child and adult psychopathology. Evaluations of each student’s
clinical-professional development and scholarship-research skills are continuous.

Goals
Four program goals have been defined: research knowledge and expertise;
breadth of knowledge and integration of core areas in psychology; competencies
in scientific methodology and analysis; and effective communication skills. Each
goal has associated objectives and competencies.

Master of Science in Psychology
Goals
To ensure that students who receive a master’s degree in psychology will be
prepared for further post-graduate study and for careers in related areas, the
department has identified the following goals: an understanding of core areas and
the breadth of the field of psychology and its applications; ability to integrate
knowledge and theories across, and to think critically about, topics within
the domains of psychology; competence in library information technology
and computer applications related to the study of psychology; competence in
scientific methodology and analysis as they apply to the study of psychology;
ability to communicate effectively, in both oral and written form, about issues
within the field of psychology; active participation in the research process; and
understanding and compliance with the APA code of ethics pertaining to research
conduct. Each goal has associated objectives and competencies.

Doctor of Philosophy in Clinical Psychology
Admission Requirements
Admission requirements are as stated for the Master of Science in Psychology
with the following additions: all students must have been recommended by the
Clinical Admissions Committee of the Psychology Department.

General Requirements
All doctoral students must complete the Master of Science in Psychology, or
its equivalent, as noted below. Students entering the doctoral training program
at Idaho State University with a master’s degree from another institution will
receive full or partial credit, based on an examination of completed course
work and research. The department chair, the director of clinical training, and
the departmental subject matter expert(s) will review all relevant documents
and determine the course work and research, if any, that will be required to
compensate for omissions and/or non-equivalency.

The following requirements are all in addition to the Master of Science
requirements.

Required Courses
Assessment Sequence
PSYC 6620 Psychodiagnostics I 3

POLS 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are
noted by course section and announced in the class schedule by the scheduling
department. Experimental courses may be offered no more than three times. May
be repeated

POLS 7701 Supervised Administrative Internship in Higher Education: 1-6
semester hour.
Supervised Administrative Internship in Higher Education variable up to 6
credits. May be repeated

Psychology
Chair and Professor: Lynch
Professors: Hatzenbuehler, Lawyer, Letzring, Rasmussen, Turley-Ames, Wong
Associate Professors: Brumley
Assistant Professors: Aubuchon-Endsley, Fairholme, Riske, Stewart, Swift, Xu
Visiting Assistant Professor: Miyake
Adjunct Faculty: Landers, Pongratz, Staley
Emeritus: Enloe, Joe, Roberts

Doctor of Philosophy in Experimental Psychology
Doctoral training in Experimental Psychology provides students with education
and research training in the core areas of psychological science, e.g., personality,
social psychology, learning, sensation and perception, cognition, developmental
psychology, and physiological psychology. Students who complete the doctoral
program may pursue academic or non-academic careers. To prepare for their
future careers, students need to (i) have a solid foundation in basic areas of
psychology (breadth of knowledge) and also (ii) develop an expertise in their
research areas (depth of knowledge). Our program offers a variety of courses to
help students accomplish their career goals.

Goals
POLS 7702 Team Teaching: 3 semester hours.
Doctor of Arts candidates team teach an entire course with a faculty member.
PREREQ: POLS 6694
POLS 7703 Solo Teaching: 3 semester hours.
Doctor of Arts candidates assume total responsibility for teaching a class.
PREREQ: POLS 6694 and POLS 7702
POLS 8850 Dissertation: 1-9 semester hour.
Variable credits. May be repeated. Graded S/U

Psyc 6620 Psychodiagnostics I 3

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Clinical - Professional Development

All students must complete 7 credits of PSYC 7725 Psychology Clinic Practicum and 1 credit of PSYC 5517 Interdisciplinary Evaluation Team. Up to 3 credits of PSYC 7724 Community Practicum may be substituted for credits of PSYC 7725. Progress in the development of professional skills is evaluated by faculty supervisors and the Clinical Training Committee. Satisfactory evaluations of professional development by the Clinical Training Committee is a degree requirement.

All students must satisfactorily complete a one-year full-time clinical internship at a site belonging to the Association of Psychology Postdoctoral and Internship Centers or comparable supervised clinical practice approved by the Clinical Training Committee. Concurrent enrollment at Idaho State University in 1 credit of PSYC 7749 Clinical Internship is required. Students enrolled in PSYC 7749 will be considered full-time Idaho State University students. Application to clinical internships and acceptance into clinical internships requires completion of the dissertation prospectus and the approval of the Clinical Training Committee.

Doctor of Philosophy in Experimental Psychology

Admission Requirements

Admission requirements are as stated for the Master of Science in Psychology with the following additions: all students must be recommended by the Experimental Admissions Committee of the Psychology Department.

General Requirements

All doctoral students must complete the Master of Science in Psychology, or its equivalent. Students entering the doctoral training program at Idaho State University with a master’s degree from another institution will receive full or partial credit, based on an examination of completed course work and research. The department chair, the director of experimental training, and the department subject matter expert(s) will review all relevant documents and determine the course work and research, if any, that will be required to compensate for omissions and/or non-equivalency. The following requirements are all in addition to the Master of Science requirements.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 5583</td>
<td>Special Problems</td>
<td>10</td>
</tr>
<tr>
<td>PSYC 6641</td>
<td>Special Problems</td>
<td>10</td>
</tr>
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Research

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 8850</td>
<td>Dissertation</td>
<td>12</td>
</tr>
</tbody>
</table>

Electives 1

Total Hours 40

1 Students must complete 18 credits of elective classes. Up to nine credits of these electives may be taken outside the Psychology Department. Electives should be approved by the student’s faculty advisor. The 12 elective credits earned for the Master of Science degree will satisfy course requirements for the Doctor of Philosophy, subject to approval of the Departmental Chair.

Scholarship - Research Development

Upon completion of Area Requirements plus PSYC 6627 Statistics and Research Design I and PSYC 6632 Statistics and Research Design II, and the thesis prospectus, doctoral students are required to pass a Qualifying Exam to be admitted to doctoral candidacy. The exam samples each student’s integrative writing skills and conceptual abilities. Students write independently on integrative topics from across the foundational areas of general psychology or from an individualized and focused area of scholarly research.

Students may be admitted to candidacy for the doctoral degree upon satisfactory completion of the Master of Science degree (or its equivalent) and the Qualifying Exam. Candidates for the doctoral degree may not propose a dissertation (PSYC 8850 Dissertation) until admitted to candidacy.

A five-member doctoral committee will be formed by the student and his/her advisor. Three members of the doctoral committee must be full-time equivalent faculty members of the Department of Psychology, including at least one clinical and one experimental faculty member. The fourth and fifth members must meet Graduate School requirements and include the Graduate Faculty Representative. Students will present findings and implications of the dissertation to departmental faculty, students, and community members at an open forum.

Scholarship - Research Development

Upon completion of Area Requirements plus PSYC 6627 Statistics and Research Design I and PSYC 6632 Statistics and Research Design II, and the thesis prospectus, doctoral students are required to pass a Qualifying Exam to be admitted to doctoral candidacy. The exam samples each student’s integrative writing skills and conceptual abilities. Students write independently on...
integrative topics from across the foundational areas of general psychology or from an individualized and focused area of scholarly research.

Students may be admitted to candidacy for the doctoral degree upon satisfactory completion of the Master of Science degree (or its equivalent) and the Qualifying Exam. Candidates for the doctoral degree may not propose a dissertation (PSYC 8850) until admitted to candidacy.

A five-member doctoral committee will be formed by the student and his/her advisor. Three members of the doctoral committee must be full-time equivalent faculty members of the Department of Psychology, including at least one clinical and one experimental faculty member. The fourth and fifth members must meet Graduate School requirements and include the Graduate Faculty Representative. Students will present findings and implications of the dissertation to departmental faculty, students, and community members at an open forum.

**Master of Science in Psychology**

**Admission Requirements**

1. In addition to the general requirements of the Graduate School, the applicant must have: minimum entrance requirements include a 3.0 grade point average during the last two years of undergraduate study. Graduate Record Exam scores of the 50th percentile or higher are preferred on two of the three aptitude tests (verbal, quantitative, or analytical writing).
2. An undergraduate major in psychology or the equivalent.
3. Recommendation by the Experimental or Clinical Admissions Committee of the Department of Psychology. The Clinical and Experimental Admissions Committees only admit students into the combined Master of Science and Doctor of Philosophy course of study.

**General Requirements**

Area requirements assume the satisfactory completion of undergraduate courses that prepare the student for advanced study. Specifically, students must have completed undergraduate courses in research methods, neuroscience, sensation, perception, learning, social psychology, development psychology, personality, history and systems, or the equivalent of these topic areas. Each student’s records will be reviewed by the departmental chair in consultation with departmental staff. Students deficient in area prerequisites may be required to enroll in additional course work and/or experience limitation of choices. An Area Requirement Plan of Completion must be finalized during the student’s first semester following matriculation. The department chair, the student, and one or more faculty appointed by the chair will meet and approve each student’s Plan of Completion. Students admitted by the Clinical Admissions Committee must complete the Clinical Area Requirements; students admitted by the Experimental Admissions Committee must complete the Experimental Area Requirements.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 6627</td>
<td>Statistics and Research Design I</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 6632</td>
<td>Statistics and Research Design II</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 6650</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Select either Clinical or Experimental Area:

**Clinical Area Requirements**

Complete one, 3-credit course from each of the following core areas:

**Area A: Biological Bases of Behavior**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 5504</td>
<td>Sensation and Perception</td>
</tr>
<tr>
<td>PSYC 5531</td>
<td>Behavioral Neuroscience I</td>
</tr>
<tr>
<td>PSYC 5532</td>
<td>Behavioral Neuroscience II</td>
</tr>
</tbody>
</table>

**Area B: Cognitive-Affective Bases of Behavior**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 6642</td>
<td>Cognitive Psychology</td>
</tr>
</tbody>
</table>

**Experimental Area Requirements**

Select four of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 5504</td>
<td>Sensation and Perception</td>
</tr>
<tr>
<td>PSYC 5531</td>
<td>Behavioral Neuroscience I</td>
</tr>
<tr>
<td>PSYC 5532</td>
<td>Behavioral Neuroscience II</td>
</tr>
<tr>
<td>PSYC 5570</td>
<td>Advanced Topics in Learning</td>
</tr>
<tr>
<td>PSYC 6637</td>
<td>Multivariate Statistics and Research Design</td>
</tr>
<tr>
<td>PSYC 6642</td>
<td>Cognitive Psychology</td>
</tr>
<tr>
<td>PSYC 6643</td>
<td>Advanced Social Psychology</td>
</tr>
<tr>
<td>PSYC 6644</td>
<td>Advanced Developmental Psychology</td>
</tr>
<tr>
<td>PSYC 6647</td>
<td>Advanced Personality</td>
</tr>
</tbody>
</table>

**Electives**

Students must also complete 12 credits of elective classes. Up to six credits may be taken outside the Psychology Department. Electives should be approved by the faculty advisor.

**Total Hours**

| Total Hours | 39 |

**Courses**

**PSYC 5501 Theories of Personality: 3 semester hours.**

Study of the main theories of personality from both historical and contemporary perspectives, including trait theory, biological, psychoanalytic, humanistic, cross-cultural, behavioral, and social learning. Emphasis will be given to applying theories with the goal of understanding personality and predicting behavior. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**PSYC 5502 Teaching of Psychology: 1-2 semester hour.**

Prepare students to teach independently. Pedagogy, use of technology, and problem solving skills related to teaching psychology courses will be discussed. Supervised teaching will be treated as a separate module. Repeatable up to 4 credits. Graded S/U

**PSYC 5504 Sensation and Perception: 4 semester hours.**

The anatomical and physiological basis of sensation will be reviewed. Moreover, traditional and contemporary theories of perception will be critically considered. Students will be expected to do laboratory work illustrating basic concepts of sensory and perceptual function. PREREQ: PSYC 4431 or PSYC 4446

**PSYC 5508 Science Pseudoscience and Psychology: 3 semester hours.**

Designed to teach scientific thinking and how to critically evaluate fringe-science, paranormal, and other unproven claims. The psychological processes underlying pseudo-scientific thinking and beliefs also are introduced.

**PSYC 5512 Ethical and Professional Issues in Psychology: 2 semester hours.**

An introduction to ethical and professional standards in the field of psychology including a historic and contemporary framework. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

**PSYC 5517 Interdisciplinary Evaluation Team: 1 semester hour.**

PSYC 5531 Behavioral Neuroscience I: 3 semester hours.
Introduction to behavioral neuroscience with an emphasis on the relation between the central nervous system and behavior. Topics include: basic neuroanatomy, neurophysiology, hormones, sensory systems, motor systems, learning, memory, homeostatic regulation, and evolution. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

PSYC 5532 Behavioral Neuroscience II: 3 semester hours.
Critical evaluation of contemporary research in behavioral neuroscience. Emphasizes current research and theories concerning neural mechanisms of behavior. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: PSYC 5531 or permission of instructor

PSYC 5535 Animal Behavior: 3 semester hours.
Study of experiments in animal learning that have thrown light upon the problem of understanding human learning. Course is concerned with both observation and experimental studies of habit formation, conditioning, related endocrinology, and nerve structure as they are associated with behavior capabilities. PREREQ: Six hours of psychology beyond PSYCH 1101

PSYC 5545 Learning and Behavior: 3 semester hours.
Survey of the major principles of learning, including the processes underlying operant and classical conditioning. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

PSYC 5563 Clinical Psychology and the Law: 3 semester hours.
An introduction to the field of forensic psychology by exposing students to the primary areas in which clinical psychology relates to the legal system. Emphasis will be on expert testimony by clinicians in matters of criminal responsibility, mental competency, civil commitment, and child custody. PREREQ: Permission of instructor

PSYC 5565 Behavioral Medicine: 3 semester hours.
Psychological issues of health, disease states, and prevention. Critical evaluation of clinical research and practice including nontraditional healing techniques and current models used to understand health and disease

PSYC 5567 Topics in Psychology: 1-6 semester hour.
Selected topics in psychology. Contents vary. May be repeated with different content and departmental approval for a total of 6 credits

PSYC 5570 Advanced Topics in Learning: 3 semester hours.
In-depth study of the major theories, principles, and research in learning. Areas of emphasis include the experimental analysis of behavior, stimulus control, schedules of reinforcement, aversive control, and the quantitative analysis of behavior. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: PSYC 4445 or 5545 or permission of instructor

PSYC 5583 Special Problems: 1-3 semester hour.
Research or readings in a special area of interest to be arranged on an individual basis with individual faculty. May be repeated to a maximum of 12 credits. PREREQ: Permission of Instructor

PSYC 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. May be graded S/U

PSYC 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

PSYC 6601 Family Assessment and Theory: 3 semester hours.
Introduction to clinical work with families, including theoretical models and intervention techniques, assessment methods, current research, and special topics relevant to families

PSYC 6620 Psychodiagnosics I: 3 semester hours.
Theory, measurement development, and current use and limitations of major tests of intelligence, academic achievement, development, and neurological function. Practice in test administration is included

PSYC 6621 Psychodiagnosics II: 3 semester hours.
Theory, measurement development, and current use and limitations of major tests of personality, both objective and projective, with an emphasis on classification decisions. Practice in test administration is included

PSYC 6623 Advanced Psychological Measurements: 3 semester hours.
Psychological measurement theory, the mathematical basis of reliability and validity constructs, and test construction strategies are introduced. Measurement principles are then generalized across response modes and methods, focusing on direct observation technologies

PSYC 6627 Statistics and Research Design I: 3 semester hours.
Critical review of the theory and the methods used to evaluate the outcome of empirical research in the life and social sciences. Chi square, correlation, regression, analysis of variance designs are considered and related to the theoretical distributions basic to statistical inference. PREREQ: Psychology Graduate Student

PSYC 6632 Statistics and Research Design II: 3 semester hours.
Basic assumptions in the philosophy of scientific investigation, principles of design and analysis of experiments, including tests of significance and factorial designs, and reporting of research, in which the student is required to prepare reports of his/her own work as if for publication. PREREQ: Psychology Graduate Student

PSYC 6633 Psychology of Addictive Behaviors: 3 semester hours.
Reviews research on alcohol and other drug use within biopsychosocial framework. Included are etiological factors and natural history, assessment and diagnosis, comorbidity, motivational interviewing, treatment models, and special population issues

PSYC 6634 Cultural Diversity and Individual Differences: 3 semester hours.
Critical evaluation of scholarship on and social representations of cultural diversity and individual differences. Review of current theory, research, assessment, and intervention practices with diverse populations

PSYC 6635 Marital Assessment and Therapy: 3 semester hours.
Introduction to assessment of marital distress, theoretical approaches to treating couples, intervention techniques, current research, and special topics in the clinical study of couples

PSYC 6636 Neuropsychological Assessment: 3 semester hours.
Introduction to the selection, administration, scoring, and interpretation of commonly used neuropsychological tests, including tests of conceptual, perceptual, and linguistic ability. PREREQ: PSYC 6620 and PSYC 6621

PSYC 6637 Multivariate Statistics and Research Design: 3 semester hours.
Continuation of research principles in design and analysis, emphasizing the use of multiple dependent variables, strategies for investigating latent variables, and testing complex causal models

PSYC 6641 Special Problems: 1-3 semester hour.
The individual works under faculty guidance. The student will pursue original research in some area of psychology of particular interest to him or her and write a report of his or her work in a form suitable for publication. Repeatable up to 12 credits. PREREQ: Permission of instructor
PSYC 6642 Cognitive Psychology: 3 semester hours. 
Examines cognitive processes underlying perception, attention, mental imagery, memory, language, and problem solving/decision making. Cognitive development and individual differences are discussed. Both theory and experimental findings are emphasized in each area.

PSYC 6643 Advanced Social Psychology: 3 semester hours. 
Review of current research and major theories of social psychology. Areas of emphasis include attitude, persuasion, prejudice and stereotyping, attraction, aggression, helping, and social cognition.

PSYC 6644 Advanced Developmental Psychology: 3 semester hours. 
Study of developmental theories, issues, and research across the lifespan. Emphasis is on current empirical research, highlighting the interaction of biological, cognitive, and social domains of development within and between individuals.

PSYC 6645 Adult Psychopathology and Treatment I: 3 semester hours. 
Exposure to fundamental issues in etiology and assessment of adult psychopathology, including advancements in diagnostic classification, focusing on Axis I disorders such as anxiety and mood disorders. Empirically supported treatment methods are emphasized.

PSYC 6646 Adult Psychopathology and Treatment II: 3 semester hours. 
Continued review of theories and forms of adult psychopathology, diagnostic categories, and models of treatment. Empirically supported treatment models that consider the therapeutic process, therapeutic relationship, and sociocultural context are emphasized. PREREQ: PSYCH 6645 or permission of instructor.

PSYC 6647 Advanced Personality: 3 semester hours. 
This course will explore contemporary personality theory, as well as significant areas and trends in the current empirical literature.

PSYC 6649 Child Psychopathology and Treatment: 3 semester hours. 
Review of the psychopathology, assessment, diagnosis, and treatment of major psychological disorders of childhood, including mental retardation, autism, learning disability, attention deficit hyperactivity disorder, oppositional defiant disorder, and conduct disorder.

PSYC 6650 Thesis: 1-6 semester hour. 
Thesis. May be repeated. Graded S/U.

PSYC 6672 History and Systems: 3 semester hours. 
Survey of historical and philosophical bases of theories of psychology presently used. Emphasis on understanding impact of political, cultural, and historical forces on ideas and methods used in psychology. PREREQ: Passage of qualifying examination.

PSYC 6699 Experimental Course: 1-6 semester hour. 
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

PSYC 7701 Clinical Psychology: 2 semester hours. 
Orientation to professional training, evaluation, diagnosis, and treatment. Orientation to the ISU Psychology Clinic procedures and report writing requirements. Introduction to clinical interviewing, crisis management, supervision, and consultation.

PSYC 7702 Introduction to Psychotropic Medication: 2 semester hours. 
Introduction to clinical psychopharmacology meeting American Psychological Association guidelines for Level 1 predoctoral training. Disorders of substance abuse, psychosis, mood, anxiety, and development are highlighted. PREREQ: PSYC 5532.

PSYC 7703 Advanced Ethics and Professional Issues: 1 semester hour. 
Systematic review of ethical decision-making emphasizing analysis of complex ethical issues. Professional topics include supervision, post-doctoral training, licensure, management of high-risk patients, self-care, and emerging models of behavioral health consultation. PREREQ: PSYC 5512.

PSYC 7724 Community Practicum: 1-2 semester hour. 
Students work in public or private mental health agencies under qualified supervisors. Professional activities include evaluation and therapy. Six hours per week per credit. May be repeated. PREREQ: Approval of Clinical Training Committee.

PSYC 7725 Psychology Clinic Practicum: 1-2 semester hour. 
Students are supervised in the evaluation and treatment of clients served by the Psychology Department Clinic. Six hours per week per credit. May be repeated. PREREQ: Approval of Clinical Training Committee.

PSYC 7726 Supervision Practicum: 1-2 semester hour. 
Guided supervisory experiences with junior colleagues in the ISU Psychology Clinic. Graded S/U. May be repeated. PREREQ: Approval of Clinical Training Committee.

PSYC 7727 Psycho-Educational Evaluations: 1 semester hour. 
Interviewing, test selection, test administration, case conceptualization, report writing, and interpretation skills are performed under supervision. May be repeated. Graded S/U. PREREQ: Approval of Clinical Training Committee.

PSYC 7736 Clinical Proseminar: 1-3 semester hour. 
Specific areas of psychopathology, assessment, diagnosis, intervention, and/or associated theoretical models are reviewed in a seminar format with subject matter experts. May be repeated with different content.

PSYC 7748 Clinical Externship: 1 semester hour. 
Clinical practice in regional human service agency. Minimum 10 hours per week; 1 hour supervision by Ph.D. psychologist per 20 contact hours. Repeatable up to 12 credits. Graded S/U. PREREQ: Approval of Clinical Training Committee.

PSYC 7749 Clinical Internship: 1 semester hour. 
Predoctoral internship, 11-12 months, at a member site of the Association of Psychology Postdoctoral and Internship Centers, or comparable supervised clinical practice approved by the Clinical Training Committee. Repeatable up to 3 credits. Graded S/U. PREREQ: Approval of Clinical Training Committee.

PSYC 8850 Dissertation: 1-12 semester hour. 

Sociology, Social Work and Criminology

Faculty
Associate Professors
Gesine Hearn
Anthony Hoskin
Jensen-Hart

Assistant Professors
Teresa Casey
Jeehoon Kim
Katrina Running
Jeremy Thomas
the Sociology Graduate Director.

Classified with Performance Requirements (w/PR) admission at the discretion of

In cases of deficiencies, students may be granted waivers, alternative courses, or

completed the following courses or their equivalent:

For full admission to the graduate program in Sociology, the student must have

student must comply with the following departmental requirements:

The student must apply to, and meet all criteria for, admission to the Graduate

Admission Requirements

The goal and mission of the master's program are to prepare graduates

for positions as sociological researchers in charitable non-governmental

organizations, business, or government. This is accomplished by providing them

with the theories, findings, and methods distinctive to sociology. Some graduates

choose to pursue a sociology doctorate with the hope of college teaching, others

go on to law school, still others into counseling or private consulting.

Objectives

1. Graduates will master literature in one substantive area of sociology.

2. Graduates will develop an understanding of sociological theories, related

findings, research design and statistics.

3. Graduates will further their professional careers by either continuing

education at the doctoral level or finding employment in public service

utilizing their advanced degree.

Master of Arts in Sociology

Admission Requirements

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with the following departmental requirements:

• Students must score a minimum of the 40th percentile in one of the three sections of the GRE

• Have a grade point average of 3.0 or higher (on a 4.0) for the last 60± credits taken as an undergraduate, or permission of the Graduate Director.

• Include a statement of interest and career goals.

• Three letters of recommendation must accompany the application.

For full admission to the graduate program in Sociology, the student must have completed the following courses or their equivalent:

• Introduction to Sociology,

• Social Theory,

• Social Statistics, and

• Social Science Research Methods.

In cases of deficiencies, students may be granted waivers, alternative courses, or Classified with Performance Requirements (w/PR) admission at the discretion of the Sociology Graduate Director.

General Requirements

SOC 5502 Proseminar in Sociology 3
SOC 5508 Statistical Analysis 3
SOC 6600 Comparative Sociological Theories 3

The Sociology electives may be selected from 5500- and 6600-level courses in Sociology or other graduate courses approved by the Sociology Graduate Director. If SOC 4408 Advanced Sociological Methods was taken as an undergraduate, 3 credit hours of electives will be substitued for SOC 5508 Statistical Analysis.

Other requirements include the successful completion of a written comprehensive examination, a thesis proposal presentation and an oral defense of the completed thesis.

For more information, please consult the Sociology Graduate Student Handbook and Sociology Graduate Director.

Interdisciplinary Specialized Area in Criminal Justice

For the specialized area in Criminal Justice, students need to take the 5 courses (18 credits) required for the MA program in Sociology, and take additional 15 credits from the courses listed below to fulfill the elective requirements. Other requirements include the successful completion of a written comprehensive examination, a thesis proposal presentation, and an oral defense of the completed thesis. The specialized area is an interdisciplinary curriculum shared between the Department of Political Science and the Department of Sociology, Social Work and Criminal Justice. Other courses appropriate to the Criminal Justice emphasis may be offered by both departments and can be taken by the student with the permission of the advisor.

MA in Sociology with Interdisciplinary Specialized Area in Criminal Justice

Required Courses

SOC 5502 Proseminar in Sociology 3
SOC 5508 Statistical Analysis 3
SOC 6600 Comparative Sociological Theories 3
SOC 6603 Topics in Methods 3
SOC 6650 Thesis 1-6

Electives

SOC 5531 Criminology 3
SOC 5592 Topics in Criminal Justice 3
SOC 5536 Elite Deviance and Crime 3
SOC 5538 Sexual Crimes 3
POLS 5542 Constitutional Law 3
POLS 5543 Civil Rights and Liberties 3

Other courses with variable topics such as SOC 6601, SOC 6621, SOC 6613, or SOC 6605 may be taken if these courses are offering a Criminal Justice topic.

Courses

SOC 5502 Proseminar in Sociology: 3 semester hours.

An overview of the field of sociology, with emphasis on the teaching of sociology, orientation to graduate education, major sociological theories, issues, research approaches, and ethical problems in the field today. PREREQ: Permission of instructor
SOC 5503 Contemporary Sociological Theory: 3 semester hours.
Survey and appraisal of sociological theories since 1945: structural functionalism, rational choice, conflict, symbolic interactionism, and phenomenology

SOC 5508 Statistical Analysis: 3 semester hours.
Emphasizes advanced techniques in research design, data measurement, and multivariate analysis utilizing computer application

SOC 5513 Mind Body and Society: 3 semester hours.
Symbolic interaction and its relation to selfhood, sympathy, illness, sexuality, and addiction; and to groupings like enemies, communities, and associations

SOC 5531 Criminology: 3 semester hours.
Analysis of criminal law, law enforcement, judicial roles and processes, correctional approaches, the criminal offender and societal reactions. Theory and research as applicable to behavior and institutional relationships

SOC 5536 Elite Deviance and Crime: 3 semester hours.
Explores the types of criminal behaviors engaged in by the American socioeconomic and corporate elite. The course first explores and identifies who this elite is and then examines their ideological and economic history in American society. Specific examples of elite and corporate crime are presented and discussed in class. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

SOC 5538 Sexual Crimes: 3 semester hours.
Complex relationships of human sexuality to law and crime. A range of sexual attitudes, practices and lifestyles will be discussed in the context of cultural norms, legal parameters and personal expression. Students will be introduced to cultural variations in defining and addressing sexuality and crime. Current theoretical explanations of sexual offending and U.S. social policies and clinical interventions for sexual offenders. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

SOC 5559 MA Sociology Internship: 1-3 semester hour.
The MA sociology internship will give eligible graduate students the opportunity to explore the applied work of sociology in public and private agencies and organizations, private firms and foundations. Students will be placed in supervised internship positions commensurate with their skills, abilities and career goals. Only classified students with satisfactory academic progress are eligible for this course. May be repeated for a total of 6 credits. PREREQ: Permission of instructor

SOC 5562 Power Class and Prestige: 3 semester hours.
Theories and methodology of status systems; the relation of class to the social structure; analysis of class in different societies, with emphasis upon the class system and power. PREREQ: Permission of instructor

SOC 5567 Community Networking: Cultivating the Sociological Imagination: 3 semester hours.
Advanced study of the sociology of community through readings, class discussions, lectures, and a community networking internship

SOC 5583 Independent Problems in Sociology: 1-4 semester hour.
Readings, observations, applied work, or data analysis in content area not offered in our curriculum. May be repeated up to 6 credits

SOC 5591 Topics in Sociology: 3 semester hours.
Readings, discussion, and preparation of reports on selected topics. May be repeated with different content

SOC 5592 Topics in Criminal Justice: 3 semester hours.
Readings, discussion, and preparation of reports on selected topics. May be repeated with different content. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

SOC 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

SOC 6600 Comparative Sociological Theories: 3 semester hours.
Comparative analysis of various theoretical perspectives in sociology with special emphasis on structural functionalism, symbolic interactionism, exchange theory, conflict theories, phenomenology, and ethnomethodology. Primary emphasis will be placed on the major propositions of each perspective and the significant contributions of scholarship in each area. PREREQ: SOC 4403 or SOC 5503 or equivalent

SOC 6601 Sociological Theories: 3 semester hours.
A seminar in selected topics in theory which will focus on either historical, comparative or contemporary theories. May be repeated for up to 9 credits

SOC 6603 Topics in Methods: 3 semester hours.
In depth focus on methodological topics relevant and timely to students' needs and interests. May be repeated up to 6 credits

SOC 6605 Social Organization: 3 semester hours.
A seminar in selected topics of social organization and disorganization which will include such themes as complex organization, industrial sociology, community, and urban studies. May be repeated for up to 6 credits

SOC 6607 Topics in Diversity: 3 semester hours.
A seminar in selected topics of social differentiation such as stratification, minorities, etc. May be repeated for up to 6 credits

SOC 6613 Social Behavior: 3 semester hours.
A seminar in social interaction which will consider such themes as collective behavior, social psychology, deviance, ethnography, and neo-positive approaches to behavioral analysis. May be repeated up to 6 credits

SOC 6615 Social Institutions: 3 semester hours.
A seminar in selected aspects of medicine, law and crime, media, corporations, sports, religion, family, education, and political society. May be repeated up to 9 credits

SOC 6620 Seminar Philosophy of Social Science: 3 semester hours.
The application of mathematical and scientific methods to the study of social, economic, and political life will be considered through the reading of certain seminal writings. Attention will be given to the fundamental assumptions about the nature of scientific rationality. Required of all D.A. students

SOC 6621 Seminar Interdisciplinary Topics in Social Science: 3 semester hours.
Examination of selected topics in the social sciences from the analytic orientations and perspectives common and peculiar to the disciplines of political science, economics and sociology. Required of all D.A. students

SOC 6649 Independent Studies: 1-4 semester hour.
Consultation course consisting of independent student effort under the guidance of the instructor. Students are assigned to, or request assignment to, specific independent problems on the basis of interest and preparation. This may include preparation and presentation of a major research project, directed readings, or tutorial study. May be repeated

SOC 6650 Thesis: 1-6 semester hour.
Research, analysis, and writing of master's thesis. 6 credits of SOC 6650 are required for graduation. Continuous enrollment at a minimum of 1 credit must be maintained until the thesis is defended. May be repeated. Graded S/U
**SOC 6699 Experimental Course: 1-6 semester hour.**

This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.
Business

Tom Ottaway, Ph.D., Dean and Professor
Joanne Tokle, Ph.D., Associate Dean
Corey Schou, Ph.D., Associate Dean for Information Systems

Department of Accounting
Professors: Picard, Smith
Assistant Professors: Konicek, Lim, O'Brien-Rose

Department of Informatics
Chair and Professor: Parker
Professors: Ottaway, C. Schou
Assistant Professors: Bozan, Kordzadeh, Srinivasan

Department of Finance & Economics
Chair and Professor: Hackert
Professors: Benson, Brookman, Byers, Khang, Stegner, R. Tokle

Department of Management
Chair and Professor: Murphy
Professors: Jolly, M. Johnson, Krumwiede, J. Tokle
Associate Professors: Street, Tocher
Assistant Professors: Bolinger, S. Schou, Peterson
Senior Lecturer: Peppers

Department of Marketing
Chair and Professor: Speck
Assistant Professors: McCardle, Ney, Northington

Master of Business Administration
The College of Business (COB) at Idaho State University (ISU) offers a program leading to the degree of Master of Business Administration (MBA) to holders of business and non-business bachelor’s degrees. The MBA program is accredited by AACSB International, the Association to Advance Collegiate Schools of Business. In addition to the traditional MBA degree, the program offers MBA degrees with emphasis areas in Accounting, Informatics, Finance, Health Care Administration (HCA), Project Management, and Marketing. The MBA program at Idaho State University was the first to be accredited by the AACSB in the State of Idaho and remains committed to the delivery of a high quality, rigorous program.

The traditional MBA provides a broad general degree particularly suited to those pursuing a managerial focus in their careers. The Accounting, Informatics, Finance, Health Care Administration, Project Management, and Marketing options provide specialized knowledge relating to their respective fields. The Accounting emphasis meets the needs of students who wish to satisfy requirements for certification as public accountants (CPA) or certification as management accountants (CMA).

In the interest of a more diverse student body, the college encourages and attracts a number of full-time students from other parts of the United States and foreign countries.

Mission and Goals
The Idaho State University MBA program’s mission is to develop and deliver programs that address the diverse needs of stakeholders.

Our primary mission is to offer an MBA program that enhances our students’ competence in business management, fosters their intellectual curiosity, and develops the personal skills necessary to be an effective manager. The MBA program prepares students for leadership roles in all areas of business requiring skilled and ethical decision making and analytical abilities.

Program Goals
MBA Students should develop:
- Communication and collaboration skills.
- Skill in critical analysis, problem solving, and decision making.
- Competency in key business concept areas.
- Insight into cultural, global, and ethical issues in business.

The MBA Program
The MBA program consists of eight graduate core courses (MBA-I) covering basic knowledge skills and concepts, a core of eight broad integrative courses (MBA-II), plus six to nine hours of additional graduate level courses depending upon the student's program of study.

The MBA-I core develops a broad competence in the functional fields of business: Accounting, Economics, Management, Marketing, Operations, and Finance. The core also examines behavioral, international, ethical, industry analysis, and strategic issues that cut across the functional boundaries and provide a basic educational background. Students with undergraduate degrees in business may have MBA-I classes waived.

The MBA-II core consists of eight required courses which, although anchored in traditional functional fields, are designed to provide a strong integrative focus building upon the competencies developed in MBA-I courses.

The traditional MBA degree requires six credit hours of graduate course work beyond the MBA-II core courses. The various emphases require nine credit hours of graduate course work beyond the MBA-II core courses. The courses in the Accounting, Informatics, Economics, Finance, Health Care Administration, Project Management, and Marketing areas of emphasis are designed to provide specialized knowledge specific to each of their respective fields.

Master of Accountancy
The Master of Accountancy (MAcc) provides students with advanced analytical and technical skills and tools required for success in the complex world of accounting today. The program develops skills and competencies well beyond that of an undergraduate accounting degree and will prepare students to enter the public accounting profession and provide a solid foundation for passing the rigorous CPA professional examination.
Master of Business Administration

Admission Requirements

The student must apply to, and meet all criteria for, admission to the Graduate School, and all additional College of Business requirements.

Admission to the MBA program is granted only to students showing high promise of success. The College of Business uses various measures to determine this likelihood. However, the minimum requirement for admission is based on the following formula:

- The sum of 200 times the grade point average in upper-division course work (4.0 system) plus the total score on the Graduate Management Admission Test must equal at least 1150 points.

For applicants from schools with different grading systems a GPA will be inferred as accurately as possible. Also, graduate courses will be included in the upper-division GPA calculation. For applicants with a significant amount of recent upper-division academic course work versus course work that is considerably older, we may choose to consider only the recent GPA.

Individuals holding a current master's degree from a regionally accredited institution may meet minimum requirements and be considered for admission if they meet the Graduate School requirements regarding GRE scores in which case the student is not required to take the GMAT for admission.

All applicants are required to submit a resume outlining work experience, a statement of purpose, and two letters of reference.

Please note that no individual can be admitted to classified status in the MBA program until the College of Business has received the applicant’s official transcripts and official GMAT/GRE scores.

Applications are accepted at any time. Complete applications are reviewed the first working day of each month up to the Graduate School deadlines for admission.

Locations

The MBA program serves Southeast Idaho’s need for part-time and full-time graduate education in business. The traditional MBA degree is offered in the evening in Pocatello and Idaho Falls to full-time and part-time students with some online options. The Economics, Finance, Marketing, and Project Management emphasis areas require that students be able to take some emphasis-area daytime courses in Pocatello, and are restricted to individuals who do not have an undergraduate major in the respective fields. The Informatics emphasis and Accounting emphasis elective courses are only daytime courses offered in Pocatello. The Health Care Administration emphasis courses are offered primarily in the evening in Pocatello or online.

Conduct

Academic integrity is expected by the College of Business. All forms of academic dishonesty, including cheating and plagiarism, are prohibited.

The penalties for students engaging in academic dishonesty, plagiarism, unprofessional or unethical conduct within the university community range from a failing grade to dismissal from the MBA program, and/or permanent expulsion from the university with notation on the student's transcript. The Graduate Catalog explains the dismissal policy and the procedures for the appeal of dismissal. If you are unclear as to what constitutes academic dishonesty, you should consult the Graduate Catalog, then review the College of Business policy on Academic Integrity available from the College of Business Office in BA 202; from the College of Business web site at http://www.isu.edu/cob/; or refer to the Idaho State University Faculty/Staff Handbook policy on academic dishonesty.

If you are still in doubt about academic dishonesty, you're encouraged to consult with a faculty member, the Graduate Studies Director, or the Dean.

MBA Degree Requirements

MBA Minimum Prerequisites

Mathematics Skills

The minimum level of mathematics required for the MBA program is college algebra. If students have not completed this course, they must do so early in their program prior to enrolling in MBA-II courses. College algebra may be waived if the student scores in the 50th percentile or higher on the quantitative section of the GMAT. If all MBA-I courses are waived, the student may enroll in MBA-II courses provided they are concurrently enrolled in courses to meet the math requirement.

Computer Skills

Computer literacy is an essential skill for success in the MBA program and success in a professional business career. The minimum skills required are the ability to use a word processor, a spreadsheet, the Internet, and Windows. Students are required to maintain e-mail and Internet accounts on the Idaho State University network.

Communications Skills

Good communication skills are fundamental for students and managers. Students are expected to have a high degree of proficiency in both oral and written communication skills. Students failing to demonstrate communications proficiency will be required to take remedial work.

MBA I

The following courses are prerequisite to any MBA II course:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MGT 2216</td>
<td>Business Statistics</td>
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<tr>
<td>MBA 6610</td>
<td>Applied Economics</td>
</tr>
<tr>
<td>or ECON 2201</td>
<td>Principles of Macroeconomics</td>
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<tr>
<td>&amp; ECON 2202</td>
<td>and Principles of Microeconomics</td>
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<tr>
<td>MBA 6611</td>
<td>Financial Reporting and Managerial Accounting</td>
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<tr>
<td>or ACCT 2201</td>
<td>Principles of Accounting I</td>
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<tr>
<td>&amp; ACCT 2202</td>
<td>Principles of Accounting II</td>
</tr>
<tr>
<td>MBA 6612</td>
<td>Human Behavior in Organizations</td>
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<tr>
<td>or MGT 3312</td>
<td>Individual and Organizational Behavior</td>
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<tr>
<td>&amp; MGT 5563</td>
<td>and Business Law Concepts</td>
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<tr>
<td>MBA 6613</td>
<td>Marketing</td>
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<tr>
<td>or MKTG 2225</td>
<td>Basic Marketing Management</td>
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<tr>
<td>MBA 6614</td>
<td>Operations Management</td>
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<tr>
<td>or MGT 3329</td>
<td>Operations and Production Management</td>
</tr>
<tr>
<td>MBA 6615</td>
<td>Finance</td>
</tr>
</tbody>
</table>

Total Hours: 21

Waiver of MBA-I Requirements

MBA-I courses may be waived for students with a business degree from an AACSB accredited institution. MBA-I courses may be waived for students with a business degree not accredited by AACSB subject to a transcript and program evaluation by the Graduate Studies Director. For students with non-business degrees or degrees from foreign universities, courses may be waived where equivalency of content with the Idaho State University MBA core can be established and the student has earned at least a grade of C- or equivalent. Individuals with degrees greater than 10 years old may be required to take selected MBA-I courses. Work experience is not a basis for waiving MBA-


I course work; however, students with substantial work experience may demonstrate competence in a particular field through examination.

**MBA-II**

After all MBA-I requirements are satisfied, students may enroll in the MBA-II core component courses listed below.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 6620</td>
<td>Quantitative Information for Business Decisions</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6621</td>
<td>Managerial Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6622</td>
<td>Finance in an Integrated Environment</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6623</td>
<td>Marketing in an Integrated Environment</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6626</td>
<td>Business Policy and Strategy in a Global Environment</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6628</td>
<td>Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6629</td>
<td>Competitive Advantage Along the Value Chain and Negotiations</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6637</td>
<td>Introduction to Business Analytics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 24

Exceptions to the requirement that all MBA-I courses be completed prior to enrolling in MBA-II courses may be made when most MBA-I courses have been taken and enforcement of this requirement would cause undue hardship for a student (i.e., a delay in his/her program). Students may substitute a course for MBA 6620 with permission of the Graduate Studies Director. Exceptions will be granted only where it is reasonable to conclude that the student has sufficient background to perform satisfactorily in MBA-II courses.

A request for an exception to the MBA-I prerequisite requirement must be made to the Graduate Studies Director. This request should state the MBA-I courses remaining to be taken in the student’s program, when those courses will be taken, and what hardships will be incurred if the exception is not granted.

Students may substitute MBA-II courses only with permission of the College of Business Director of Graduate Studies and the appropriate department chair or program director.

**Additional Course Requirements**

Students seeking the traditional MBA degree will complete six credit hours of additional graduate course work beyond the MBA-II core.

Students seeking the MBA with an emphasis in Accounting, Informatics, Economics, Finance, Project Management, Marketing or Health Care Administration will complete nine credit hours of graduate work in their selected emphasis area.

Students may select as electives any 5500-level or 6600-level courses offered by the College of Business that meet emphasis area requirements with the exception of courses numbered between MBA 6600 and MBA 6615 inclusive, and MBA-II courses. Students wishing to take elective courses outside the College of Business must have those courses approved by the Graduate Studies Director. The electives may include MBA 6650 Thesis (6 credit hours), or MBA 6639 MBA Paper (3 credit hours). Students may not take a 5500-level course for elective credit if a similar course has been taken at the undergraduate level.

**The Traditional MBA degree (6 hours of electives)**

Students pursuing the traditional MBA degree are required to meet the following requirements:

- Electives (6 credit hours). The traditional MBA degree requires six credit hours of College of Business electives at the 5500/6600 level approved by the Graduate Studies Director.

**Accounting Emphasis (9 hours)**

The MBA with an Emphasis in Accounting program produces graduates with the knowledge and skills for successful professional accounting careers. The goal of the accounting emphasis is to provide graduates with the following characteristics:

- Business and accounting knowledge.
- Capability and motivation for continued learning.
- Competence in learning skills (including research of data bases).
- Ability to analyze, critique, and communicate.
- Ability to work effectively with others.
- Rigorous ethical standards.

The Accounting Emphasis program enhances knowledge and skills for rapid advancement in either managerial or public accounting. MBA graduates should be prepared to pass certification examinations for both the Certified Public Accountant (CPA) and Certified Management Accountant (CMA).

Students choosing an emphasis in Accounting must select 9 hours of 5500/6600 level accounting courses. Appropriate undergraduate prerequisite courses are required. Courses at the 5500-level cannot be selected if a comparable undergraduate course has already been taken.

**Informatics Emphasis (9 hours)**

The MBA with an Emphasis in Informatics is focused on providing managerial-level knowledge of information technology for MBA students. The Informatics emphasis provides general business managers with a curriculum focused on building their knowledge of informatics and the opportunity to develop technical skills in this field.

Electives (9 credit hours). The MBA with an emphasis in Informatics requires 9 credit hours of 5500/6600-level elective course work in the field of informatics.

**Economics Emphasis (9 hours)**

The MBA with an emphasis in Economics is not open to students who have a previous undergraduate major in economics. The Economics emphasis requires that students must be able to take some daytime courses in Pocatello.

The MBA with an emphasis in Economics requires 9 credits of elective course work in economics, or 6 credits of elective course work in economics and 3 credits in finance.

**Finance Emphasis (9 hours)**

The MBA with an Emphasis in Finance is not open to students who have a previous undergraduate major in Finance. The Finance emphasis requires that students must be able to take some daytime courses in Pocatello.

The MBA with an emphasis in Finance requires FIN 5578 Investments (3 credits) plus 6 more credits of 5500/6600-level elective course work in the field of finance.

**Project Management Emphasis (9 hours)**

<table>
<thead>
<tr>
<th>Required Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 5582</td>
</tr>
<tr>
<td>MGT 5591</td>
</tr>
<tr>
<td>Select one of the following:</td>
</tr>
<tr>
<td>MGT 5534</td>
</tr>
</tbody>
</table>
Students who have taken these courses as undergraduates are not eligible to repeat them as graduate students. Students who have already taken one or more of these classes must have an appropriate alternative course approved by the Graduate Studies Director or Management Department Chair.

Marketing Emphasis (9 hours)
The MBA with an Emphasis in Marketing is not open to students who have a previous undergraduate major in Marketing. The Marketing emphasis requires that students must be able to take some daytime courses in Pocatello.

The MBA with an emphasis in marketing requires 9 credit hours of 5500/6600-level elective course work in the field of marketing. Marketing courses are labeled MKTG.

Health Care Administration Emphasis (9 hours)
The MBA with an emphasis in Health Care Administration requires at least 9 credit hours of 5500/6600-level elective work in Health Care Administration (HCA). Students may not repeat classes they have taken as undergraduates at the 4400-level.

Program of Study
All MBA students are required to meet with the Graduate Studies Director prior to or during their initial term in the program in order to develop an approved program of study. Students will be blocked from registering for the next term until this program of study is approved.

Examination Requirements
The MBA program requires the satisfactory completion of an oral examination in the final term of the student’s program.

Academic Requirements
Any student who, after admission to the College of Business graduate program, falls below a 3.0 GPA or receives two C (C+, C, or C-) grades or a grade of D+ or lower in the MBA program (MBA-I, MBA-II, and elective courses) is deemed to be doing unsatisfactory work and is subject to review by the College of Business MBA Administrative Committee and to dismissal from the program. A student dismissed for academic reasons may apply for readmission to the MBA program no earlier than four months following his/her dismissal. Requests for readmission will be denied unless the student can demonstrate that the reasons for the previous unsatisfactory work have been rectified and can show evidence of ability to perform satisfactorily in the MBA program.

Courses in which a grade of D+, D, D- or F has been earned will not be counted toward fulfillment of MBA-I or MBA-II program requirements. Students may not use more than two courses with a grade of C+, C, or C- to satisfy graduation requirements. Students must achieve a 3.0 or better GPA in order to graduate.

MBA and PharmD Joint Degree Program
Students enrolled in the PharmD Program at Idaho State University may combine that degree program with an MBA degree with approximately one year of additional effort. The program is essentially the traditional MBA degree program with the use of some PharmD courses to meet MBA requirements. Program requirements include:

During the third year profession year in the Pharm.D. program and the summer preceding that year, the student should take:

- ACCT 2202 Principles of Accounting II 3
- MBA 6613 Marketing 3
- MBA 6614 Operations Management 3
- MBA 6615 Finance 3
- MBA 6616 Business Policy 3

During the fourth professional year in the Pharm.D. program, students should take:

- PHAR 9981 Advanced Pharmacy Practice Experience 7

1 These courses will satisfy four hours of electives required in the spring semester of the third professional year of the Pharm.D. curriculum. In addition, the completion of MBA 6612 Human Behavior in Organizations will substitute for PPRA 9945 required in the third professional year of Pharm.D. curriculum.

2 Six hours of specified experiential courses will satisfy the six elective hours required in the MBA curriculum.

Throughout and following the professional Pharm.D. program, the student must complete the second year of MBA curriculum, which includes:

- MBA 6615 Financial Analysis 3
- MBA 6616 Business Policy 3
- MBA 6617 Business Applications 3
- MBA 6623 Marketing in an Integrated Environment 3
- MBA 6624 Business Policy and Strategy in a Global Environment 3
- MBA 6625 Financial Planning 3
- MBA 6626 Business Strategy 3
- MBA 6627 Finance in a Strategic Environment 3
- MBA 6628 Business Applications 3
- MBA 6629 Competitive Advantage Along the Value Chain and Negotiations 3
- MBA 6637 Introduction to Business Analytics 3

Total Hours 24

Upon completion of all required MBA classes, the student may take the MBA final oral exam.

Award of the MBA degree requires successful completion of the Pharm.D. degree or a bachelor’s degree at Idaho State University.

Admission Requirements
Admission to the MBA program will normally take place at the end of the second professional year. PharmD students must meet the regular admission requirements of the MBA program except they are required to have completed only the equivalent of an undergraduate degree at the time of admission. Applicants must request the College of Pharmacy to certify to the Graduate School that the student has completed 120 hours and that those 120 hours are equivalent to an undergraduate degree.

Graduate Certificate in Business Administration Program (18 credits)
The College of Business offers a Graduate Certificate in Business Administration for individuals with non-business degrees who wish to enhance their business knowledge and skills. The program is designed as an evening, part-time program for the working professional, providing a broad base of knowledge and skills needed for today's high technology business environment. Individuals who may subsequently apply for admission to the MBA program would have all MBA-I requirements completed.
Admission Requirements

Admission to the program and maintenance of good standing will be in accord with the requirements of the Graduate School of Idaho State University and the additional College of Business requirements.

Admission to the Graduate Certificate in Business Administration program is open to students with non-business degrees. Admission to the program requires that applicants meet one of the following two requirements.

1. A minimum GPA of 3.0 in the last 60 hours of undergraduate coursework.
2. A score at the 40th percentile or higher on at least one section of the GMAT.

Students who complete the Graduate Certificate in the Business Administration program are required to meet the regular MBA admission requirements if they wish to complete the MBA degree. The COB will consider the student's GPA in MBA-I classes in instances wherein the individual has extremely old undergraduate GPA.

The following actions are required to be considered for admission to the Graduate Certificate in Business Administration program.

1. Submit a Graduate School application form and application fee to the Graduate School.
2. Provide official transcripts to the Graduate School.
3. Provide GMAT scores to the Graduate School in cases where GPA in the last 60 hours of undergraduate coursework is below a 3.0.
4. Provide a resume of work experience and two letters of recommendation to the College of Business.

Locations

The Graduate Certificate in Business Administration program is offered in both Pocatello and Idaho Falls. In some instances, students may have to travel to Pocatello or Idaho Falls to obtain a specific class.

Requirements (18 hours)

• Certificate Minimum Prerequisites. Students entering the Graduate Certificate in Business Administration program are expected to have completed formal courses in statistics, college algebra, and micro and macro economics. If students have not completed this work, they must do so early in their program.

Required courses for the Graduate Certificate in Business Administration (18 hours as specified below):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 6611</td>
<td>Financial Reporting and Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6612</td>
<td>Human Behavior in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6613</td>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6614</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6615</td>
<td>Finance</td>
<td>3</td>
</tr>
<tr>
<td>MBA 6616</td>
<td>Business Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 18

Waiver of Requirements

Course requirements will be waived for students who can demonstrate that they have taken equivalent courses within the last 5 years. If a course is waived, the student is required to substitute an alternative course in the field of study that was waived. Waiver of courses and substitutions must be approved by the MBA Director.

Academic Requirements

Any student who, after admission to the College of Business certificate program, falls below a 3.0 GPA or receives two C+ grades or a grade of D or F in any course is deemed to be doing unsatisfactory work and is subject to dismissal from the program. A student dismissed for academic reasons may apply for readmission to the certificate program no earlier than four months following his/her dismissal. Requests for readmission will be denied unless the student can demonstrate that the reasons for the previous unsatisfactory work have been rectified and he/she shows evidence of ability to perform satisfactorily in the certificate program. Courses in which a grade of D or F has been earned will not be counted toward fulfillment of program requirements. Students may not use more than two courses with a grade of C+ to satisfy certificate completion requirements.

Master of Accountancy

Admissions Requirements

The student must apply to, and meet all the criteria for, admission to the Graduate School, and all additional College of Business requirements.

Admission to the MAcc program is granted only to students showing high promise of success. The College of Business uses various measures to determine this likelihood. However, the minimum requirement for admission is based on the following formula:

- The sum of 200 times the grade point average in the last 60 credits of course work (4.0 system) plus the total score on the Graduate Management Admissions Test must equal at least 1150 points.

Applicants must hold a bachelor's degree in accounting or equivalent coursework if the degree is not in accounting.

For applicants from schools with different grading systems a GPA will be inferred as accurately as possible. Also, graduate courses will be included in the last sixty hours GPA calculation. For applicants with a significant amount of recent upper-division academic course work versus course work that is considerably older, we may choose to consider only the recent GPA.

Individuals holding a current master’s degree from a regionally accredited institution may meet minimum requirements and be considered for admission if they meet the Graduate School requirements regarding GRE scores, in which case the student is not required to take the GMAT for admission.

All applicants are required to submit a resume outlining work experience, a statement of purpose, and two letters of reference.

Please note that no individual can be admitted to classified status in the MAcc program until the College of Business has received the applicant’s official transcripts and official GMAT/GRE scores.

Applications are accepted at any time. Complete applications are reviewed the first working day of each month up to the Graduate School deadlines for admission.

Course Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 5531</td>
<td>Advanced Tax Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 5533</td>
<td>Legal Environment of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>or MGT 5561</td>
<td>Business Law</td>
<td></td>
</tr>
<tr>
<td>ACCT 5557</td>
<td>Advanced Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 5561</td>
<td>Advanced Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 5571</td>
<td>Accounting Capstone 1</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 5572</td>
<td>Accounting Capstone 2</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 5573</td>
<td>Accounting Capstone 3</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 5574</td>
<td>Accounting Capstone 4</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 6625</td>
<td>Managerial Control Systems and Corporate Social Responsibility</td>
<td>3</td>
</tr>
</tbody>
</table>
or MBA 6625 Managerial Control Systems
ACCT 6631 Accounting Theory 3
ACCT 6634 Seminar in Accounting 3
MBA 6622 Finance in an Integrated Environment 3
ACCT 6660 Accounting for Governmental and Not-for-Profit Entities 3

Total Hours 31

Program of Study
All MAcc students are required to meet with the Graduate Studies Director or accounting advisor prior to or during their initial term in the program in order to develop an approved program of study. Students will be blocked from registering for the next term until this program of study is approved.

Examination Requirement
The MAcc degree requires the satisfactory completion of an oral examination in the final term of the student’s program.

Academic Requirements
Any student who, after admission to the College of Business graduate program, falls below a 3.0 GPA or receives two C (C+, C, or C-) grades or a grade of D+ or lower in the MAcc program is deemed to be doing unsatisfactory work and is subject to review by the College of Business Graduate Administrative Committee and dismissal from the program. A student dismissed for academic reasons may apply for readmission to the graduate program no earlier than four months following his/her dismissal. Requests for readmission will be denied unless the student can demonstrate that the reasons for the previous unsatisfactory work have been rectified and can show evidence of ability to perform satisfactorily in the MAcc program.

Courses in which a grade of D+, D, D– or F has been earned will not be counted towards fulfillment of MAcc program requirements. Students may not use more than two courses with a grade of C+, C or C– to satisfy graduation requirements. Students must achieve a 3.0 or better GPA in order to graduate.

Time Limit
Any course used to meet graduation requirements must be completed within five years prior to the date of graduation.

Accounting Courses
ACCT 5500 Managerial Tax Planning: 3 semester hours.
For prospective business managers, owners, or investors interested in important tax consequences of alternative financial transactions

ACCT 5503 Accounting Information Systems: 3 semester hours.
A strategic approach to the use of accounting information in an organization. Tools for documentation of business processes and database design are introduced. Focuses on primary business cycles, interrelationship among them, and impact on accounting information. Includes assessment of risks involved in information processing and reporting. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: ACCT 3323

ACCT 5531 Advanced Tax Concepts: 3 semester hours.
Specialized federal tax concepts and tax research principles for individuals, businesses, estates, and trusts. Elaborates on basic principles discussed in Principles of Taxation. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

ACCT 5533 Legal Environment of Accounting: 3 semester hours.
Study of legal issues facing accountants, including business law, forms of organizations, and regulatory requirements

ACCT 5541 Management Control Systems: 3 semester hours.
Focuses on strategic and managerial evaluation and control systems using financial and nonfinancial accounting information. PREREQ: ACCT 3341

ACCT 5556 Auditing: 3 semester hours.
Concepts and practices of independent and internal auditing. Professional responsibilities, risk assessment, audit planning and reporting. PRE-OR-COREQ: ACCT 4403 or ACCT 5503 or CIS 4403 or CIS 5503. PREREQ: ACCT 3324

ACCT 5557 Advanced Auditing: 3 semester hours.
Integration of financial statement auditing concepts in case discussions. Research into contemporary auditing literature

ACCT 5560 Governmental and Not-for-Profit Accounting: 3 semester hours.
Accounting and reporting principles, standards and procedures applicable to governmental units and not-for-profit institutions, i.e. universities, hospitals. Special consideration to financial management problems peculiar to the not-for-profit sector. PREREQ: ACCT 3324

ACCT 5561 Advanced Accounting: 3 semester hours.
Study of accounting problems arising in connection with partnerships, corporate affiliation; institutional, social, and fiduciary accounting; consignments; installment sales; and foreign exchange

ACCT 5570 Contemporary Issues in Managerial Accounting: 3 semester hours.
Contemporary topics and emerging issues in managerial accounting. This field is rapidly evolving to meet the needs of enterprises competing in a dynamic global environment. PREREQ: ACCT 3341

ACCT 5571 Accounting Capstone 1: 1 semester hour.
Capstone course integrating accounting regulation topics. Emphasis on analytical, problem-solving and communication skills

ACCT 5572 Accounting Capstone 2: 1 semester hour.
Capstone course integrating financial accounting and reporting topics. Emphasis on analytical, problem-solving and communication skills

ACCT 5573 Accounting Capstone 3: 1 semester hour.
Capstone course integrating auditing and attestation topics. Emphasis on analytical, problem-solving and communication skills

ACCT 5574 Accounting Capstone 4: 1 semester hour.
Capstone course integrating business environment and concept topics. Emphasis on analytical, problem-solving and communication skills

ACCT 5580 Comparative International Accounting: 3 semester hours.
Study of systems that have proven to be problems in an international accounting context, particularly for corporate financial reporting. Also, the progress toward international harmonization of financial reporting and taxation

ACCT 5590 Financial Reporting and Statement Analysis: 3 semester hours.
A financial accounting capstone course focusing on statement analysis from the point of view of the many users of financial statements: investors, creditors, managers, auditors, analysts, regulators, and employees through the case analysis of actual companies' financial statements. PREREQ: ACCT 4461 or ACCT 5561

ACCT 5591 Seminar in Accounting: 3 semester hours.
Reading, discussion, and preparation of reports on selected topics. Restricted to senior and graduate students in business who have the consent of the instructor. Specialized evaluated graduate level activities and performances are identified in the course syllabus. May be repeated for up to 6 credits with permission of instructor

ACCT 5592 Special Problems in Accounting: 1-3 semester hour.
Research and reports on selected problems or topics in accounting. Restricted to senior and graduate students in business who have the consent of the Dean. May be repeated under a different title for a maximum of 9 credits with the permission of the major advisor and the Dean
ACCT 5593 Accounting Internship: 1-3 semester hour.
A program of significant business experience coordinated by the faculty to provide a broad exposure to issues. May be repeated up to a total of 3 credits

ACCT 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

ACCT 6625 Managerial Control Systems and Corporate Social Responsibility: 3 semester hours.
The managerial and strategic use of control systems. Current practices in corporate social responsibility management and reporting practices. The interrelationship between management control systems and corporate social responsibility

ACCT 6631 Accounting Theory: 3 semester hours.
Study of accounting conceptual framework and accounting principles. Case discussions and research into contemporary accounting literature

ACCT 6632 Advanced Auditing: 3 semester hours.
Integration of auditing concepts in case discussions. Research into contemporary auditing literature and databases. PREREQ: ACCT 5556

ACCT 6634 Seminar in Accounting: 3 semester hours.
Capstone course integrating special problems of financial, managerial, and tax accounting. Emphasis on analytical and communication skills. PREREQ: ACCT 5561

ACCT 6635 Strategic Cost Management: 3 semester hours.
Critical examination of various cost management issues and techniques with emphasis on strategic, behavioral, and cultural issues. PREREQ: MBA 6611, MBA 6615 and MBA 6616

ACCT 6660 Accounting for Governmental and Not-for-Profit Entities: 3 semester hours.
In-depth study of accounting and reporting principles, standards and procedures applicable to government and nonprofit entities with an emphasis on topics unique to these institutions

ACCT 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Economics Courses

ECON 5504 Game Theory: 3 semester hours.
Use game theory to model conflicts, cooperation and strategy, with applications in economics, business, political science, psychology, sociology, anthropology and biology. Equilibrium concepts, information structures, static and multi-period games will be discussed. PREREQ: ECON 2201 and ECON 2202 or ECON 6610/MBA 6610 or permission of instructor

ECON 5509 Industrial Organization: 3 semester hours.
Industrial organization extends the theory of the firm to examine firms’ strategic behavior, including methods to differentiate products and aggressive pricing schemes, and the government’s response to these activities

ECON 5511 Political Economy: 3 semester hours.
A critical introduction to the relationship between economic institutions and social analysis. The social implications of different views on economic concepts, such as the division of labor, capital, and value, are investigated from a classical, neoclassical and an institutional perspective

ECON 5531 Money and Banking: 3 semester hours.
The study of financial instruments, money, interest rates, the banking industry, and the structure and monetary policies of the Federal Reserve Bank. An examination of past and present monetary policy. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: ECON 2201 and ECON 2202 or MBA 6610

ECON 5533 Economic Development: 3 semester hours.
Theories and principles of economic development, characteristics, and problems of underdeveloped and developing countries, alternative techniques and policies for the promotion of growth and development

ECON 5534 International Trade: 3 semester hours.
Study government trade policies, trade laws, and national and international trade institutions. Study trade strategy from the perspective of governments and business. Understand the different levels of economic integration among countries and the political economy of trade policies and trade conflicts/cooperations. Specific evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: ECON 2201 and ECON 2202 or ECON 6610/MBA 6610 or permission of instructor

ECON 5535 International Finance: 3 semester hours.
Study foreign exchange market and theories of exchange rate determination. Discuss the effectiveness of fiscal and monetary policies in an open economy and the implications of international macroeconomic policy coordination/conflict for government officials and business. Learn about foreign exchange hedging and risk management for country and business. Study lessons from recent international financial crises. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: ECON 2201 and ECON 2202 or ECON 6610/MBA 6610 or permission of instructor

ECON 5538 Public Finance: 3 semester hours.
Study of government revenues, expenditures, and debt management, including an analysis of the effects of these governmental activities on the American economy. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: ECON 2201 and ECON 2202 or MBA 6610

ECON 5539 State and Local Finance: 3 semester hours.
Study of taxation, borrowing and spending by state, city, county and other local governments. Taxing and spending patterns are evaluated and compared by states

ECON 5572 Comparative Economic Systems: 3 semester hours.
Study and comparison of the theories and practices found in various economic systems. Includes a study of both the free market and socialistic planning

ECON 5574 Senior Seminar: 3 semester hours.
Discussion-driven capstone class that integrates selected topics in economics. Students will be required to do economic research, and write on and discuss current economic issues. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor

ECON 5581 Independent Study: 1-3 semester hour.
Individuals will be assigned independent problems for research under the supervision of a departmental faculty member. May be repeated up to 6 credits

ECON 5585 Econometrics: 3 semester hours.
The application of statistical and mathematical methods to the analysis of economic data, with a purpose of giving empirical content to economic theories and verifying them or refuting them

ECON 5591 Economic Seminar: 1-3 semester hour.
Seminar. May be repeated

ECON 5592 Economic Seminar: 1-3 semester hour.
Seminar. May be repeated
Financial Management of Depository Institutions: 3 semester hours.

An analysis of the managerial issues which affect the financial performance of depository institutions such as capital adequacy, liquidity and asset/liability management techniques, profitability analysis, funding and investment decisions.
Informatics Courses

INFO 5417 Statistical Methods for Data Analytics: 3 semester hours.
Encompasses data visualization, descriptive data analysis, ANOVA approaches, correlation and multiple regression and additional modeling topics. Emphasis will be based upon appropriate interpretation of statistical results. All data will include a business or health care context to acquaint students with current statistical practice

INFO 5507 Database Design and Implementation: 3 semester hours.
Covers multi-user relational database management systems, stored procedures, SQL, transaction processing, etc. The course emphasizes Secure Software Design, which includes secure design elements, software architecture, secure design review, and threat modeling. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PRE-or-COREQ: INFO 3307

INFO 5511 Intermediate Information Assurance: 3 semester hours.
Focuses on homeland security, information assurance, integrity, control, and privacy. Covers CNSS-4011, national policy, and international treaties. The course considers Access Control, Application Security, Business Continuity and Disaster Recovery Planning, Cryptography, Information Security and Risk Management, Legal, Regulations, Compliance and Investigations, Operations Security, Physical (Environmental) Security, Security Architecture. Includes security issues around steady state operations and management of software, as well as security measures taken when a product reaches its end of life. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: INFO 2285 or CS 2275 or INFO 3310, or permission of instructor

INFO 5512 Systems Security for Senior Management: 1-3 semester hour.
Review of system architecture, system security measures, system operations policy, system security management plan, and provisions for system operator and end user training. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: INFO 5519.
PREREQ: INFO 5511, INFO 5513, INFO 5514, INFO 5515, and INFO 5516 or permission of instructor

INFO 5513 Systems Security Administration: 1-3 semester hour.
Outlines the basic principles of systems security administration. The student will be introduced to the methods and technologies associated with running a system to maintain privacy and security. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: INFO 5519.
PREREQ: INFO 5511 or permission of instructor

INFO 5514 Systems Security Management: 1-3 semester hour.
Establishes a framework for managing both systems and systems administrators operating in a secure and private computing environment. The course deals with facilities management, contingency plans, laws, standards of conduct and operations management. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: INFO 5519.
PREREQ: INFO 5511 and INFO 5513 or permission of instructor

INFO 5515 System Certification: 1-3 semester hour.
Describes techniques and methods for certifying a system is in compliance with national and governmental information assurance standards. Evaluates various certification methodologies. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: INFO 5519.
PREREQ: INFO 5511, INFO 5513, and INFO 5514 or permission of instructor

INFO 5516 Risk Analysis: 1-3 semester hour.
Develops techniques to characterize and provide perspective on the likelihood of adverse events. Explains methods to characterize the consequences and general costs associated with the various adverse events occurring. The analysis provides insights into various likelihood and consequence combinations. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: INFO 5519. PREREQ: INFO 5511, INFO 5513, INFO 5514, and INFO 5515 or permission of instructor

INFO 5517 Information Assurance Engineer: 1-3 semester hour.
Focuses on the practical application of systems design and engineering principles and processes to develop secure systems. Topics include analysis of organizational needs, definition of security requirements, designing systems architectures, developing secure designs, implementing system security, and support of systems security assessment/authorization for organizations. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: INFO 5511, INFO 5513, INFO 5514, and INFO 5515

INFO 5519 Advanced Informatics Practicum: 1-3 semester hour.
Significant informatics experience including research coordinated by the faculty designed to provide broad exposure to issues in Information Assurance. Does not fulfill major/minor requirements. May be repeated for up to 6 credits. Graded S/U. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor

INFO 5520 Health Informatics: 3 semester hours.
Presents an overview of the evolution of health care informatics. Students will learn health care informatics history, concepts, theories, legal and ethical implications, and applications within the health care industry. This course will introduce the student to human factors issues in health care informatics; critical issues affecting the development and implementation of information technologies (clinical, administrative, and learning), knowledge management principles, professional practice trends, and explore some of the emerging information technology in health care. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

INFO 5522 Health Information Assurance: 3 semester hours.
The aim of this course is to provide a broad base of understanding of the range of issues that IT professionals must be aware of upon entering the healthcare industry. Students will be exposed to the current state of healthcare industry security environment and the larger regulatory environment in which healthcare organizations operate. This is important in light of the recent move towards cloud-based electronic health records (EHRs) and third party-developed health applications. Further, issues relating to privacy/security, information governance and information risk assessment will also be covered. Finally, students will be exposed to interventions that can help mitigate the risks identified. PREREQ: INFO 2285

INFO 5524 Healthcare Workflow Process Analysis and Redesign: 3 semester hours.
The aim of this course is to provide a broad-based understanding of workflow processes in the healthcare industry. In particular, the course will develop skills necessary to critically analyze and redesign the patient flow processes and utilize health IT systems both in the administrative and clinical landscape to achieve greater operational efficiency and provide higher quality of care to patients. Quality improvement methods and tools as well as process change implementation, improvement, and management will also be discussed in this course. PREREQ: INFO 5520
INFO 5526 Health Data Analytics: 3 semester hours.
Introduction to and the use of intermediate analytical skills to identify trends, correlations to predict outcomes and provide meaningful recommendations. Variety of data sources and structures are identified and transformed into relevant information in the clinical context to recommend new treatments and technologies, improve effectiveness and efficiency, design and plan policy and programs, improve service delivery and operations, enhance sustainability, mitigate risk, and provide a means for measuring and evaluating critical organizational data that helps the healthcare organization to achieve increased quality of care and patient satisfaction. PREREQ: MGT 2217 or equivalent knowledge

INFO 5530 Web Application Development: 3 semester hours.
Focuses on the development of dynamic, online applications using a programming language like PHP or ASP.Net and a relational database. The course will consider Secure Software Implementation/Coding, which involves secure coding practices, avoiding vulnerabilities, and reviewing code to ensure that there are no errors in the code or security controls. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: INFO 3307

INFO 5532 Mobile Application Development: 3 semester hours.
This course will introduce mobile app programming and provide theoretical and practical knowledge to design and build mobile applications. Students will learn various techniques in mobile app development using a programming language like Java. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: INFO 1182

INFO 5571 Computer Forensics Essentials: 1-3 semester hour.
Introduction to issues of both in data privacy and computer forensics - using available tools, learners can reveal the stored passwords on their computer and access previously deleted data. Explains the role of computer forensics in both the business and private world, identifies the current techniques and tools for forensic examinations; describes and identifies basic principles of good professional practice for a forensic computing practitioner; develops familiarity with forensic tools and application in different situations. Risk exposure for electronic commerce businesses; offenders and abuses; criminal opportunities; evidential aspects, case studies, E-discovery, forensic readiness corporate planning and response, from evidence collection to business continuity; testing vulnerabilities; reverse engineering. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: INFO 5507 and INFO 3380 or permission of instructor

INFO 5572 Cloud Security Essentials: 1-3 semester hour.
Cloud computing provides for distributed computing and data storage capabilities. Instead of buying large servers to store data and being saddled with the cost of building and maintaining those systems, users can now purchase those servers from a third party with the ability to expand or contract those needs as necessary. This course will look at current research results in cloud security in order to identify opportunities for continued research in this field. PREREQ: INFO 5507 and INFO 3380 or permission of instructor

INFO 5573 Continuous Monitor, Intrusion Analysis, Response: 1-3 semester hour.
Using principles continuous monitoring and baselines, develop knowledge and understanding of the strategies, techniques, and technologies used in attacking and defending networks and how to design secure networks and protect against intrusion, malware and other hacker exploits. Introduces methods of attacking and defending a network; design of secure information infrastructure; servers, networks, firewalls, workstations, and intrusion detection systems. Intrusion detection and network monitoring techniques; worms, viruses and other malware; operation, detection and response; principles of penetration testing for assessment of system security; hacker exploits, tools and countermeasures. Investigative techniques, ethical, legal and privacy issues. PREREQ: INFO 5507, INFO 5511, and INFO 3380 or permission of instructor

INFO 5574 SCADA Management and Lab: 1-3 semester hour.
Supervisory control and data acquisition systems are used to control many utility networks, chemical plants, pipelines and many other types of industries. This course will examine the vulnerabilities associated with these systems and discuss how they can be made secure from outside attack. Fundamentals of software-controlled processes will also be discussed. PREREQ: INFO 5511, INFO 5507, and INFO 3380 or permission of instructor

INFO 5582 Systems Development and Implementation Methods: 3 semester hours.
This course presents the process of software development and the methodologies to lower development costs, increase software reliability, decrease development time and ensure application development success. An overview and comparison of traditional and modern methods of software development are presented. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: INFO 5507

INFO 5584 Secure Software Life Cycle Development: 3 semester hours.
In today's interconnected world, security must be included within each phase of the software lifecycle. This course contains the largest, most comprehensive collection of best practices, policies, and procedures to ensure a security initiative across all phases of application development, regardless of methodology. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

INFO 5586 Data Analytics: 3 semester hours.
Provides an overview of the fundamentals of analysis to support decision makers in achieving organizational results. Students become familiar with the tools needed to frame problems, analytical techniques to generate and test hypotheses, and the skills to interpret the results into meaningful information. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: MGT 2217

INFO 5587 Software Systems Study: 3 semester hours.
In addition to system optimization techniques, management strategies will be discussed. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: INFO 3307

INFO 5591 Seminar in Informatics: 3 semester hours.
Reading, discussion, and reporting on selected topics. May be repeated for up to 6 credits with permission of instructor. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Graduate status in Business and permission of instructor

INFO 5592 Special Problems in Informatics: 1-3 semester hour.
Research and reports on problems or topics in informatics. May be repeated for up to 9 credits with different content. PREREQ: Graduate status in Business and permission of the Chair
INFO 5593 Informatics Internship: 1-3 semester hour.
Significant business experience coordinated by the faculty to provide broad exposure to informatics issues. Letter grade assigned. May be repeated for a total of 3 credits

INFO 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

INFO 6528 Electronic Health Records: 3 semester hours.
Introduces students to Electronic Health Records (EHR), which aggregate patient health information across healthcare organizations, providers, and consumers. Students will learn the technical infrastructure required for EHRs including distributed architecture, network and security design, and configuration approaches to support these designs. The course may also discuss vendor and product selection along with best practices for deploying and the transition to EHRs. Students will have hands-on learning experience through simulated EHR activities in different roles within an ambulatory care setting. PREREQ: INFO 5507

INFO 6540 Health Clinical Practicum: 3 semester hours.
Provides the students with the opportunity to observe and perform various supervised health informatics-related activities in one or more clinical departments. 8 hours per week. NOTE: Some facilities may require a background check. When required, this check will be conducted at the student's expense

INFO 6610 Advanced Information Assurance: 3 semester hours.
Network and IS security issues, risk assessment, technological, and procedural security measures; computer fraud and privacy issues; hacker attacks, phone fraud, denial of service, and virus and worm attacks; laboratory and professional practice

INFO 6620 Advanced Systems Analysis and Design: 3 semester hours.
This course builds on basic system analysis and design concepts including distributed systems analysis and design. Use cases, quality assurance, and performance metrics are investigated. The course will also introduce students to some of the most significant trends, issues, and research results in system analysis, architecture, and design

INFO 6630 Advanced Data Management: 3 semester hours.
This course builds on basic database design and implementation concepts. New developments in database technology are discussed. Students examine the impact of emerging database standards and evaluate the contribution of new approaches to practical implementations of data management

INFO 6640 Advanced Data Analytics: 3 semester hours.
This course covers advanced analytical techniques and methods designed to resolve key management issues. Students will learn to resolve issues involving risk and sensitivity and learn to identify patterns of performance, working toward a goal of recognizing insights into the data that will support good decision making. Students may work with a large dataset to convert it to meaningful information by using the analytical tools learned in class

INFO 6650 Thesis: 1-6 semester hour.
1-6 credits. Graded S/U. May be repeated

INFO 6660 Informatics Project: 1-3 semester hour.
A significant project involving informatics toward the completion of the M.S. program with non-thesis option. Includes a report and oral examination. Graded S/U. May be repeated

INFO 6670 IT Project Management: 3 semester hours.
This course provides an information systems orientation for project management. Students learn techniques for planning, organizing, scheduling, and controlling information systems projects, including software cost estimation and software risk management. Establishing project communications, change management, quality assurance, and managing distributed software teams and projects are among the topics discussed

Management Courses

MGT 5510 Entrepreneurship: 3 semester hours.
Developing new business ideas, initiating a new enterprise, bringing new technology to the market; applying sound business practices involving management, marketing, accounting, finance, and informatics to accommodate changing market conditions

MGT 5520 Native American Organizational Systems: 3 semester hours.
Analysis of factors and dimensions to be considered in the structure and design of contemporary Native American organizations. Comparison of contemporary Native organizational systems with traditional Native organizational approaches and contemporary non-Native organizations. Specific graduate level activities and/or performances will be identified in the course syllabus

MGT 5522 Native American Enterprise: 3 semester hours.
Approaches, strategies, and models utilized in developing tribally-owned and privately-owned Native American businesses across the U.S. and Canada. Analysis of social, economic, and environmental contingency factors that contribute to successful establishment of Native American businesses. Specific graduate level activities and/or performances will be identified in the course syllabus

MGT 5530 Advanced Operations and Production Management: 3 semester hours.
Study of problems on line management in organizations. Major sections include strategy, process analysis, personpower planning, inventories, scheduling, and control of operations. Emphasizes both behavioral and technical aspects of problem solving in the area of operations management

MGT 5534 Productivity and Quality: 3 semester hours.
Study of the factors involved in an organization's productivity and quality of product or service

MGT 5541 Organizational Behavior: 3 semester hours.
Case study approach designed to encourage independent thought in the application of behavioral theories and concepts of organizational problems. Emphasis on integrating theoretical concepts with patterns of organizational direction, control, communications and decision-making. PREREQ: MGT 3312 or MBA 6612

MGT 5550 Manufacturing Strategy: 3 semester hours.
Study of the various production alternatives as critical factors in a company's competitive strategies

MGT 5561 Business Law: 3 semester hours.

MGT 5562 Issues in Business and Society: 3 semester hours.
Seminar course designed to focus thinking on critical issues facing managers in making decision choices regarding employees and other stakeholder groups, the community, and the environment

MGT 5563 Business Law Concepts: 1 semester hour.
Legal and regulatory environment of business. Topics include: tort law, product liability, contracts, sales of goods, employment law, securities regulation, and bankruptcy
Marketing Courses

MKTG 5505 Personal Selling and Sales Force Management: 3 semester hours.
Attention given to product features, buying motives, selling points, principles and practices of selling, psychology of salesmanship, sales problems, personal requirements, opportunities. Determination of the amount and allocation of personal sales effort to be applied to the market and methods of organizing, evaluating, and controlling this effort. PREREQ: MKTG 2225 or MBA 6613

MKTG 5510 Entrepreneurship: 3 semester hours.
Developing new business ideas, initiating a new enterprise, bringing new technology to the market; applying sound business practices involving management, marketing, accounting, finance and informatics to accommodate changing market opportunities. Equivalent to MGT 5510. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

MKTG 5521 Services Marketing: 3 semester hours.
Examines the development, promotion, and management of services. Topics covered include strategic planning, delivery channels and promotional challenges inherent to services

MKTG 5526 Marketing Research: 3 semester hours.
Evaluation and study of providing relevant marketing information to management. Emphasizes problem formulation, consideration of data sources, means of acquiring information, sampling, interpretation of results

MKTG 5527 Consumer Behavior: 3 semester hours.
In-depth analysis of the internal and external influences of consumer behavior and decision-making, including learning, perception, cultural values, group influences, and a range of psychological and sociological concepts. This advanced study of consumer behavior will include analysis of a consumer dataset, as well as case studies highlighting concepts under investigation, and a consumer behavior audit. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: MKTG 2225 or MBA 6613

MKTG 5528 Integrated Brand Promotion: 3 semester hours.
Planning and execution of advertising, sales promotion, and public relations programs developed into an integrated brand promotion program. Includes development of Integrated Brand Promotion plan. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: MKTG 2225 or MBA 6613

MKTG 5532 New Product Management: 3 semester hours.
Analysis of new product ideas: screening, business analysis, prototype development, market testing, and commercialization of goods and services. Includes diffusion of innovation issues in consumer and industrial markets

MKTG 5556 International Marketing: 3 semester hours.
Comparative marketing arrangements are examined. Covers factors which need to be recognized by international marketing managers in analyzing markets, covering foreign operations, and assessing economic, cultural, and political aspects of international markets

MKTG 5575 Competitive Intelligence: 3 semester hours.
How to use competitive intelligence to gain strategic advantage. Includes understanding of information gathering techniques, the conversion of information into intelligence, various analysis methodologies, and intelligence dissemination processes

MKTG 5580 Marketing on the Internet: 3 semester hours.
Understanding and using the Internet for marketing communications. Includes evaluating current sites, developing skills for authoring HTML pages, and developing an Internet marketing strategy and site for an organization

MKTG 5591 Seminar in Marketing: 3 semester hours.
Reading discussion, and preparation of reports on selected topics. Restricted to senior and graduate students in business who have the consent of the instructor. May be repeated with instructor's permission for up to 6 credits
MKTG 5592 Special Problems in Marketing: 2-3 semester hours.
Research and reports on selected problems or topics in marketing. Restricted to senior and graduate students in business who have the consent of the Dean. May be repeated under a different title for a maximum of 9 credits with the permission of the major advisor and the Dean

MKTG 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

MKTG 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Master of Bus Admin Courses

MBA 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

MBA 6610 Applied Economics: 3 semester hours.
Applied principles and techniques of analysis in micro and macro economics. Equivalent to ECON 6610

MBA 6611 Financial Reporting and Managerial Accounting: 3 semester hours.
Integrates study of accounting concepts with understanding of financial reports. Use of accounting information in managerial decision-making and control

MBA 6612 Human Behavior in Organizations: 3 semester hours.
Study of human behavior in organizations. Decision-making and problem-solving, interpersonal relations and communications, and negotiations

MBA 6613 Marketing: 3 semester hours.
Analysis of forces producing changes in general business conditions. Principles of market-driven decision-making. Application to marketing management decisions and marketing strategy

MBA 6614 Operations Management: 3 semester hours.
Decision-making techniques for analysis of operational systems. Topics include operations/production planning, process analysis, project planning and control, and quality control. Include GC, MBA

MBA 6615 Finance: 3 semester hours.
Study of the allocation of scarce resources, domestic and international financial management

MBA 6616 Business Policy: 3 semester hours.
Study of strategic decision-making in a firm and its relation to the functional area of a business. Techniques of industry analysis. Study of ethics/social responsibility in the business organization

MBA 6619 Statistical Tools for the MBA: 1 semester hour.
This course provides a review of basic statistics for MBA students. Because it is a tools’ course that is applicable to other courses in the MBA program, it should be taken early in the student’s program. The course covers summary statistics, descriptive measures, basic probability theory, normal distributions, confidence intervals, and simple and multiple linear regressions. Microsoft Excel will be used to analyze data

MBA 6620 Quantitative Information for Business Decisions: 3 semester hours.
Development and use of financial and non-financial information to support business analysis and decision-making. Develops and applies analytical tools and framework through readings and case analysis

MBA 6621 Managerial Decision Making: 3 semester hours.
Study of the environment in which managerial decisions are made. Includes issues of organizational change, leadership, values, regulation, corporate culture and process, and organizational diversity

MBA 6622 Finance in an Integrated Environment: 3 semester hours.
Integrated analysis of a firm’s decisions with emphasis on the financial aspects of these decisions

MBA 6623 Marketing in an Integrated Environment: 3 semester hours.
Integrated analysis of a firm’s decisions with emphasis on the marketing and distribution aspects of these decisions over time. Analysis of decisions involving product development and market strategy

MBA 6624 Information Technology in Business: 3 semester hours.
The use and assessment of information technology in organizations. Focus is on strategic and integrative issues

MBA 6625 Managerial Control Systems: 3 semester hours.
The managerial and strategic use of control systems. The impact of control systems on organizational behavior and decision making

MBA 6626 Business Policy and Strategy in a Global Environment: 3 semester hours.
Strategic management of the firm, with emphasis on industry analysis, strategy formulation, implementation, cultural diversity in a global environment

MBA 6628 Business Applications: 3 semester hours.
Student teams participate in applied business projects or manage a simulated company’s operations. Focus is on enhancing broad-based skills developed in other MBA courses. This course must be taken in the last semester in which a student is enrolled. If a student’s last semester is summer, this course should be taken in the preceding spring. PREREQ: MBA 6623. PREREQ or COREQ: MBA 6626

MBA 6629 Competitive Advantage Along the Value Chain and Negotiations: 3 semester hours.
The first module of this course is directed at improving firm performance across elements of the value (supply) chain. Students will investigate the approaches firms are using to better manage the business processes they use to acquire, transform, and move materials, services, information, and capital. The second module on negotiations will introduce the concepts of collective deal-making and dispute resolution in dyadic and multiparty negotiations with an emphasis on hands-on skill building

MBA 6630 Accounting for Managers: 2 semester hours.
Introduces the basic concepts of financial and managerial accounting. Focuses on the conceptual foundation, which is essential to understanding accounting as an information system for management. Major topics include the accounting process, income determination, financial reporting, foundations of managerial accounting, operations planning and control, and performance evaluation

MBA 6631 Managing Change in Organizations: 2 semester hours.
Explores the issues, techniques, and dilemmas associated with the planning, introduction, implementation and maintenance of organizational change programs. The course emphasizes both theory and application

MBA 6632 Capital Management: 2 semester hours.
This course covers the management of short-term and long-term assets and liabilities. Working capital management topics include cash management, inventory management, accounts receivable and accounts payable management, and the cash budget. The course acquaints students with the means of raising capital for firms via private equity, venture capital, IPOs, and seasoned offerings. Other topics include cost of capital along with its associated modern portfolio theory, mergers and acquisitions, corporate restructuring, and international corporate finance
MBA 6633 Marketing Management: 2 semester hours.
This course explores the marketing function of organizations with an emphasis on the development of long-term customer relationships. Topics include consumer behavior, customer satisfaction and loyalty, as well as the elements of the marketing mix (product, price, place, and promotion)

MBA 6634 Business Analytics: 2 semester hours.
This course provides an introduction to the field of business analytics, which has been defined as the extensive use of data, statistical and quantitative analysis, descriptive and predictive models, and fact-based management to drive business decisions and actions. The development and use of data warehouses and data marts to support business analytics is discussed. The use of key performance indicators, dashboards, and scorecards for performance management and opportunity assessment are addressed. Text and web mining are discussed, and the application of selected data mining techniques to business decision making situations is illustrated. Students actively participate in the delivery of this course through case and project presentations

MBA 6635 Value Chain Management: 2 semester hours.
Course is directed at improving firm performance across competitive priorities thus creating value for the firm - through developing, managing, and enabling the elements of the value (aka supply) chain. Integration within a firm and across the supply chain will be the constant theme. The student will investigate the approaches firms are using to better manage the business processes they use to acquire, transform, and move materials, services, information, and capital

MBA 6636 Corporate and Competitive Strategy: 2 semester hours.
Course covers the strategic direction setting activities of the firm, the corporate and business level strategies designed to achieve organizational objectives, and the implementation of those strategies. International issues in strategy making and execution are also considered. The course focuses on both theory and application

MBA 6637 Introduction to Business Analytics: 3 semester hours.
Survey course that includes topics from the four major areas of business use of data analytics: data visualization, modeling, predictive analytics, and data mining. Additionally, the course will include discussion of data warehousing and data cleaning. Using a variety of software packages, students will be expected to do case work with data providing an executive summary with supporting statistical analyses for business decision making

MBA 6639 MBA Paper: 3 semester hours.
May be repeated

MBA 6640 Quantitative Tools for Managers: 1 semester hour.
This course provides students with quantitative tools used in accounting, finance, management, information systems, and marketing. Specific applications include time value techniques and various topics in business analytics. Using Microsoft Excel, students build complex spreadsheet models in areas such as valuation, forecasting, business analysis, decision analysis, optimization, and risk analysis

MBA 6641 Leadership in Organizations: 1 semester hour.
Explores the importance of leadership to organizational success. Focuses on theoretical models, practical examples, and skill development

MBA 6642 Capital Investment Analysis: 1 semester hour.
This course reinforces and extends financial decision-making tools in the areas of capital investment analysis. In addition to understanding the calculation and interpretation of traditional techniques such as net present value, internal rate of return, profitability index, and many others, students will understand the relationships between these measures along with their strengths and weaknesses. Students will also learn to calculate and interpret basic real options and conduct risk analysis, cash flow analysis, and review basic cost of capital analysis

MBA 6643 Marketing Analytics: 1 semester hour.
This course examines the analytics that marketing managers require in making strategic marketing decisions. Topics include customer-based marketing metrics such as satisfaction, retention, and loyalty, and the impact these metrics have on an organization's performance-based metrics

MBA 6644 Strategic Business-IT Alignment: 1 semester hour.
This course provides an overview of the most widely adopted IT governance and management frameworks and describes specific IT management processes and decisions that require substantive business involvement required to achieve strategic business alignment

MBA 6645 Negotiation and Decision Making: 1 semester hour.
Introduction to the concepts of negotiation with emphasis on building students' skills in multiple phases of negotiation. Applies prescriptive and descriptive negotiation and decision-making theory to dyadic and multiparty negotiations to analyze collective decision-making, deal-making, and dispute resolution in business and non-business contexts. Significant emphasis on experiential exercises and skill-building activities

MBA 6646 Business Ethics: 1 semester hour.
Course presents frameworks for ethical decision-making in business. Students will learn and apply the frameworks to complex business problems that contain ethical dilemmas

MBA 6650 Thesis: 1-6 semester hour.
May be repeated. Graded S/U

MBA 6692 Special Problems in Business Administration: 2-3 semester hour.
Research readings or reports on selected problems and topics. May be repeated under a different title for a maximum of 6 hours credit. Requires the consent of the instructor

MBA 6693 Graduate Internship: 1-3 semester hour.
A program of significant business experience coordinated by the faculty to provide broad exposure to issues. May be repeated for up to 3 credits. Graded S/U

MBA 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Health Care Admin Courses

HCA 5550 Special Topics in Healthcare: 1-3 semester hour.
Topics relevant to health professionals. May be repeated for up to 9 credits with different titles or content. Graded S/U

HCA 5553 Healthcare Finance: 3 semester hours.
The application of financial management principles, practices, and techniques used in healthcare organizations. An understanding and analysis of how these financial tools are used in decision making and how they are integrated into the healthcare organization's planning process. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: ACCT 2202 and FIN 3315 or equivalent

HCA 5565 Health Care Operations and Quality: 3 semester hours.
This capstone course in health care administration addresses the application of managerial concepts and practices within various health care environments, including acute, ambulatory, mental health, and long term care organizations. Topics include issues/trends and best practices related to governance, leadership, management; planning and marketing; quality assessment/operations improvement; and maximizing human resources and financial performance. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus
HCA 5573 Marketing for Health Care Organizations: 3 semester hours.
Introduction to basic marketing management issues as they pertain to healthcare. Current marketing trends in the healthcare marketplace. Consumer orientation, health care marketing plans, and strategy development. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

HCA 5575 Health Law and Bioethics: 3 semester hours.
This course develops a roadmap to facilitate risk management in the provision of healthcare services. Issues addressed include regulation and licensure, liability, selected aspects of public programs, and ethical issues regarding death, reproduction, and research. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

HCA 5595 Administrative Internship: 4 semester hours.
During the internship experience, students work in a health or human services organization, performing various duties and being exposed to various aspects of managerial careers in health services management.* Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: HCA emphasis and permission of HCA department chair.

HCA 5599 Experimental Course: 1-6 semester hour.
This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

HCA 6610 Industry in Transition: 2 semester hours.
Current readings from the popular and academic literature are used to explore and to understand the critical aspects of access, cost, and quality healthcare delivery across all areas of the industry.

HCA 6615 Health Services Management: 3 semester hours.
Determination and fulfillment of mission, plans, and structure, motivating individuals, and managing activities to support people in their work and in the achievement of their goals.

HCA 6620 Economics and Reimbursement: 2 semester hours.
In-depth synthesis of the insurance and reimbursement practices in today's healthcare environment, and the economic foundations upon which they are based.

HCA 6625 Healthcare Law and Bioethics: 3 semester hours.
Comprehensive coverage of legal issues and the ethical implications of the law as applied to regulation and licensure, health care financing, Medicare and Medicaid, health care reform, and other relevant current issues.

HCA 6630 Financial Management: 3 semester hours.
The application of financial management principles, practices, and techniques used in healthcare organizations. Financial tools as decision making, strategy, and planning tools.

HCA 6635 Healthcare IT and Quality: 2 semester hours.
Healthcare IT management framework, hardware and software, project management, and the collection, use, security of health information, external accreditation processes, and internal quality improvement programs.

HCA 6640 Healthcare Policy: 2 semester hours.
The formulation of priorities, development of legislation, implementation of legislative provisions through administrative action, and their effect on population health.

HCA 6645 Strategic Management: 3 semester hours.
An integration of the principles of organization management, finance, and marketing. Market analysis and positioning including strategic planning and new program development. The leader's role in strategy formulation and implementation.
Education

Deborah L. Hedeen, Ph.D., Dean
Christine Linder, Associate Dean

Conceptual Framework
The College of Education conceptual framework guides the curriculum, instruction, and assessment for all initial and advanced professional education programs in the College of Education. This framework comprises a standards-driven, learner-centered, assessment-informed, collaborative approach through which teachers, administrators and other school personnel develop the knowledge, dispositions, and skills deemed essential for effective professionals.

Standards for Advanced Professionals: The College of Education Standards for Advanced Professionals address the knowledge, dispositions, and skills required for school personnel completing initial and advanced/administrative preparation. These standards present the advanced professional as reflective, inquiry-oriented, cognizant of cultural diversity and individual differences, able to communicate effectively, aware of the research in his/her field, and able to assume leadership responsibilities.

Professional Studies and Research: The professional accesses, reads, and interprets the literature in his/her field and applies information from the research to professional practice.

Theoretical Foundations: The professional understands the theoretical foundations of the profession and applies knowledge of theoretical foundations to professional practice.

Professional Practice: The professional recognizes and addresses current issues in the profession, solves problems encountered in professional practice, and reflects on his/her professional practice and its effects.

Exceptionality and Diversity: The professional addresses issues of exceptionality and cultural diversity in his/her professional practice.

Technology: The professional uses technology in his/her professional practice.

Assessment: The professional uses a variety of formal and informal assessments to evaluate his/her performance and the performance of others.

Management of the Work Environment: The professional creates and maintains a safe and productive work environment.

Leadership: The professional assumes leadership roles in the profession and shares knowledge and expertise with others in the profession and community.

Interpersonal Skills: The professional fosters and maintains positive work relationships and models effective oral and written communication.

Personal Characteristics: The professional displays the beliefs, values, and behaviors that guide the ethical dimensions of professional practice.

Organization of the College of Education
To facilitate student access to advising and other academic support services, the College of Education is organized into four departments: Organizational Learning and Performance, School Psychology and Educational Leadership, Sport Science and Physical Education, and Teaching and Educational Studies. Program descriptions, admission requirements, and program standards for each department are described in the following sections. However, the following are common elements to all master’s programs within the College of Education. Requirements for doctoral programs and educational specialists are listed with those programs.

Admission to College of Education Master’s Programs
At the time of application, the applicant must specify a single Master of Education program area to which admission is requested (i.e., Educational Administration, Elementary Education, Secondary Education, Literacy, Instructional Technology, K-12 Education/Music Education Emphasis, Child and Family Studies, School Psychology, Special Education, Human Exceptionality, or Physical Education/Athletic Administration). Should a student wish to change his/her program area, he/she must reapply to the Graduate School and to the new program area for admission.

The following are required for admission by all Master of Education program areas:

• The student must apply to, and meet all criteria for, admission to the Graduate School.
• Bachelor’s degree from a college or university accredited in the United States or its equivalent from a school in another country.
• Grade point average of 3.0 or higher for all upper division credits taken at the undergraduate level.
• Fulfill any additional requirements of the proposed master’s program area (e.g., successful completion of an admission interview with the master’s program faculty).

Program Requirements:
No more than 9 credits of unclassified graduate coursework may be applied to the student’s program. The student is responsible for meeting the requirements of, and being admitted to, the program as a classified student before taking additional coursework.

Master of Education students are strongly encouraged to sequence the master’s core courses as follows:

EDUC 6601 within the first 9 credit hours
EDUC 6602 within the first 18 credit hours
EDUC 6610 within the first 24 credit hours

Additional program requirements specific to the Master’s of Education and the Master’s of Physical Education are listed with each program description.

Retention in College of Education Graduate Programs:
Students must meet university, college, and department standards for grades, residency, time limits, and continuing registration (refer to the General Information section at the front of the Graduate Catalog and program descriptions that follow).
the start date of the particular cohort (contact department chair for specific details). However, there is a specific sequencing of curriculum, and this may strongly influence the start date of a particular cohort. Applications for cohort admission are accepted at any time, in accordance with the deadlines set by the Graduate School. Every effort is made to accommodate the doctoral program of study for non-cohort students who enroll in full-time doctoral studies. In addition to the Graduate School general requirements, individuals applying for admission to the Instructional Design Ph.D. program will be reviewed using the following criteria for admission. Preference will be given to applicants who have:

1. A master's degree in instructional technology, instructional design, or a related field.
2. An academic record of at least 3.0 Grade Point Average (GPA) in the last two years of undergraduate course work and 3.5 GPA at the graduate level.
3. A minimum of 40th percentile on both the Verbal and Quantitative Reasoning portions of the GRE. One of these scores must be at or above the 50th percentile. Alternatively, an MAT score at the 45th percentile or higher may be substituted for the GRE.
4. Submitted a current curriculum vitae.
5. Submitted a letter of application that makes clear the candidate's interest in, and suitability for, this program.
6. Successfully interviewed with faculty from the Graduate Department of Educational Leadership and Instructional Design.
7. Successfully completed a proctored writing sample.
8. In addition to the above, international students must meet Graduate School requirements for admission, including evidence of English language capabilities at the graduate studies level.

General Requirements

The Doctor of Philosophy in Instructional Design requires a minimum of 67 semester credits:

Of the 67 semester credits required for the Ph.D. in Instructional Design, at least 30 semester credits of course work must be taken at Idaho State University. Dissertation credits may not be transferred from another institution.

Upon initial enrollment, all Instructional Design Ph.D. students will be required to maintain continuous enrollment, with at least one semester credit of work each semester (including summers) from matriculation to completion of the program, including completion of the dissertation and oral defense. Failure to maintain continuous enrollment can result in dismissal from the program.

A GPA less than 3.5 in the program or two grades of C+, or below, will result in the Graduate Department of Educational Leadership and Instructional Design reviewing the student's performance within the program. The result of this review may lead to dismissal. Any additional grading policies are set by the Graduate School.

Program of Study

A Program of Study will be drafted during the first semester of course work. This plan of study will be filed with the Graduate School. Programs of Study will be updated each semester. A current Program of Study must be submitted with the Comprehensive Examination Notice of Intent and routed through the student's advisor, the Department, and the Dean of the College of Education.

Upon successful completion of the comprehensive examination, the Dissertation Committee, including the Graduate Faculty Representative (GFR), is established and the student is advanced to candidacy.

All doctoral requirements must be completed within five years of passing the Comprehensive Examination. Doctoral students must also meet appropriate residency requirements.
Doctor of Instructional Design Program Course Work
All course work is subject to the approval of the student's academic advisor, Instructional Design Ph.D. program leader, and program faculty.

Courses that meet the program requirements are listed on the Instructional Design PhD web site and in the program handbook.

Instructional Design Core Studies (12 credits)
The intent of the core area is to promote essential competencies of Instructional Design, including communication, learning theory, implementation, assessment, and management. A prerequisite for the core curriculum includes or demonstration of equivalent knowledge.

Advanced Research and Statistics for Instructional Design (15 credits)
The intent of this area is to provide depth of knowledge of quantitative and qualitative research designs and the statistical procedures that support them. Candidates will complete courses in advanced quantitative research design, qualitative research design, intermediate statistics, and advanced statistics, as well as one additional course that provides depth of knowledge in a particular area of research design or statistics. Prerequisites for the research curriculum include , , or demonstration of equivalent knowledge.

Instructional Design Specialty Area (30 credits)
The intent of the Instructional Design Specialty Area is to provide depth of knowledge and skills applicable to a wide array of professional contexts. Practical application and research in current and emerging learning technologies are emphasized. Instructional Design Specialty Area courses meet advanced standards in planning and analysis; design and development; and, implementation, assessment, and management.

Dissertation (10 credits)
A minimum of 10 semester credits for dissertation work is required. Please note that some students may require more than 10 semester credits in order to successfully complete the dissertation investigation.

Points of Assessment
Candidates in the Ph.D. in Instructional Design complete two examinations during the program of study, the Qualifying Examination and the Comprehensive Examination. The Qualifying Examination assesses the candidate's capability to analyze and synthesize Instructional Design Specialty, Core, and Research content. A passing score on the Qualifying Examination is required in order to continue in the program. The Comprehensive Examination is taken after the completion of all coursework and the Instructional Design practicum. It is a significant aspect of the student's total doctoral program and provides evidence that the candidate meets advanced Instructional Design standards. A passing score on the Comprehensive Examination is required in order to continue in the program.

Dissertation and Oral Defense
Upon successful completion of the Comprehensive Examination and approval of the dissertation proposal by his or her Dissertation Committee, the student is authorized to complete the dissertation in preparation for the final oral defense.

Master of Education in Instructional Technology
The Master of Education in Instructional Technology (MEd-IT) prepares instructional designers and educators with the knowledge, skills, and abilities for designing, developing, implementing, and evaluating technology-based solutions to instructional problems. Graduates of the MED-IT degree practice in K-12, post secondary, business, industry, and performance learning environments, and may also prepare for doctoral study. Candidates in the MEd-IT degree pursue advanced study in Instructional Technology core, specialty, and field studies.

General Admission Requirements
Applicant must meet all criteria for admission to the Graduate School (application available online). In addition, the following should be submitted to the MEd-IT program coordinator to complete the application process:

- Letter of interest to the MEd-IT program coordinator
- Current Curriculum Vitae or Resume including names and contact information for three references
- GRE or MAT scores if the Graduate School computed undergraduate GPA is below 3.50
- An interview with program area faculty via in-person or video conferencing may be requested.

International Student Admission Requirements
International students must apply to the Idaho State University Graduate School and meet all criteria for admission. Typically, international students cannot begin their enrollment at Idaho State University in the summer semester. International students must refer to the "Admission of International Students" section of the Graduate catalog for TOEFL and other requirements for those whose native language is not English.

General Requirements (30 credits)
Students should begin their coursework in the fall semester. It is recommended that students register for two courses per semester in order to complete the degree in a timely manner. Candidates should establish a Plan of Study with their advisor prior to registering for classes. It is important to work closely with the advisor to assure a smooth progression from start to completion of the MEd-IT degree.

Students should begin their coursework in the fall semester. Students should register for at least two courses per semester in order to complete the degree in a timely manner. Students must establish a Plan of Study with their Academic Advisor prior to registering for classes. It is important to work closely with the Academic Advisor to assure a smooth progression from start to completion of the MEd-IT degree.

Instructional Technology Core Studies (minimum 12 credits)
The intent of the core area is to promote essential competencies within instructional technology and design, including theories related to the instructional design knowledge base, assessment and measurement, research and writing, and statistical methods. Candidates for the MEd-IT degree should work closely with their Academic Advisor to identify specific content and sequencing of courses.

Instructional Technology Specialty Area (minimum 12 credits)
The intent of the Instructional Technology Specialty Area is to provide depth of knowledge and skills applicable to a wide array of professional contexts. Practical application and research in current and emerging learning technologies are emphasized. Instructional Technology Specialty Area courses meet advanced standards in planning and analysis; design and development; and, implementation, assessment, and management within technology-driven environments.

Instructional Technology Field Study (minimum 6 credits)
A minimum of six semester credits for a field project, case study, internship, or thesis is required. Candidates for the MEd-IT degree should consult with
their Academic Advisors in planning an effective and appropriate field study, including the design, implementation, evaluation, and defense of the end product.

Online Teaching Endorsement

The Online Teaching Endorsement (OTE) focuses on the preK-12 educator in acquiring the techniques for integration of multiple types of technologies into the online curriculum. State of Idaho certified educators complete five graduate courses and an online internship, all of which align with Idaho Online Teaching Standards and National Standards for Quality Online Teaching by iNACOL (International Association for K-12 Online Learning.)

The skills, knowledge, and products developed through the OTE are readily transferable to work settings in both education and business/industry. Five of the six OT courses are contained in the Master of Education in Instructional Technology degree. Those who attain the OTE, if accepted into the MEd-IT degree program, can transfer the 21 credit hours from the OTE toward the 30-credit hours required to complete the MEd-IT degree.

Admission Requirements

Applicants must meet all criteria for admission to the Graduate School (application available online). In addition, the following should be submitted to the OTE coordinator to complete the application process:

- Letter of interest
- Current curriculum vitae/resume with contact information for three professional references
- GRE or MAT scores if the Graduate School computed GPA is below 3.50
- An interview with program area faculty via in-person or video conferencing may be requested.

General Requirements (21 credits)

Students should begin their coursework in the fall semester. Students should register for at least two courses per semester in order to complete the endorsement in a timely manner. Students should establish a Plan of Study with their Academic Advisor prior to registering for classes. It is important to work closely with the Academic Advisor to assure a smooth progression from start to completion of the OTE.

Seniors who are Education majors and are in residence at ISU may register for courses listed with the 55xx numbers (up to six graduate credits) in the OTE in the semester during which the bachelor's degree will be attained.

Technology content (15 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLT 5555</td>
<td>Fundamentals of Instructional Design</td>
<td>3</td>
</tr>
<tr>
<td>EDLT 6621</td>
<td>Issues and Trends in Instructional Technology</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6622</td>
<td>Educational Assessment and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDLT 6656</td>
<td>Fundamentals of Multimedia Development in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDLT 6639</td>
<td>Delivering Instruction in Electronic Formats</td>
<td>3</td>
</tr>
</tbody>
</table>

Internship (6 credits)

Candidates for the Online Teaching Endorsement must fulfill a six-credit internship in an online setting during the last semester of study. Placement is established with the candidate's advisor in coordination with an appropriate K-12 educational institution.

Master of Organizational Learning and Performance

Admission Requirements

Individuals applying for admission to the Master of Organizational Learning and Performance program must meet the following admission requirements:

- The student must apply to, and meet all criteria for, admission to the Graduate School.
- Bachelor’s degree from a college or university accredited in the United States or its equivalent from a school in another country.
- Grade point average of 3.0 or higher for all upper division credits taken at the undergraduate level.
- The student must write a proctored Statement of Intent for the Master of Organizational Learning and Performance.

General Requirements

Students must complete a minimum of 30 semester credit hours for the Master of Organizational Learning and Performance, featuring M.OLP Course Requirements (12 credits) for all M.OLP majors. Student electing the M.OLP will complete the HRD Studies (12 credits). Students electing the M.OLP, PTE Emphasis will complete the PTE Studies (12 credits). All M.OLP students will complete the Research studies and capstone. The Research Studies, Thesis option includes two research courses and thesis capstone (9-12 credits); the Field Research Studies option includes one research course and a research project (6 credits); the Comprehensive Exam option includes a research course, another course, and a written and oral comprehensive exam. Students will orally defend the findings of their research. Students seeking Idaho PTE certification must meet the Idaho Division of Professional-Technical Education requirements for certification. (See http://www.pte.idaho.gov/).

Required Courses

**M.OLP Course Requirements (12 Credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLP 6601</td>
<td>HRD Literature for the Practitioner-Scholar</td>
<td>3</td>
</tr>
<tr>
<td>OLP 6602</td>
<td>Principles of HRD</td>
<td>3</td>
</tr>
<tr>
<td>OLP 6621</td>
<td>Theories of Adult Learning</td>
<td>3</td>
</tr>
<tr>
<td>OLP 6661</td>
<td>Performance Improvement</td>
<td>3</td>
</tr>
</tbody>
</table>

Select either the HRD Studies or the Professional-Technical Studies option:

**HRD Studies (minimum of 12 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLP 6603</td>
<td>Psychology of Leadership</td>
<td></td>
</tr>
<tr>
<td>OLP 6604</td>
<td>Leadership Scholarship</td>
<td></td>
</tr>
<tr>
<td>OLP 6605</td>
<td>Organizational Development</td>
<td></td>
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<tr>
<td>OLP 6606</td>
<td>Contemporary Theories of Motivation</td>
<td></td>
</tr>
<tr>
<td>OLP 6607</td>
<td>Workplace Evaluations and Assessments</td>
<td></td>
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<tr>
<td>OLP 6608</td>
<td>Needs Analysis</td>
<td></td>
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<tr>
<td>OLP 6609</td>
<td>Intervention Design and Development</td>
<td></td>
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<tr>
<td>OLP 6610</td>
<td>The Chief Learning Officer</td>
<td></td>
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<tr>
<td>OLP 6611</td>
<td>The Chief Diversity Officer</td>
<td></td>
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<tr>
<td>OLP 6612</td>
<td>The Performance Consultant</td>
<td></td>
</tr>
<tr>
<td>OLP 6613</td>
<td>Learning Technologies in HRD</td>
<td></td>
</tr>
<tr>
<td>OLP 6614</td>
<td>The Contemporary Supervisor</td>
<td></td>
</tr>
<tr>
<td>OLP 6615</td>
<td>Global Aspects of HRD</td>
<td></td>
</tr>
<tr>
<td>OLP 6616</td>
<td>Theories of Adult Development</td>
<td></td>
</tr>
</tbody>
</table>

With advisor approval, student may select other courses from other programs.

- OLP 6603 Psychology of Leadership
- OLP 6604 Leadership Scholarship
- OLP 6605 Organizational Development
- OLP 6606 Contemporary Theories of Motivation
- OLP 6607 Workplace Evaluations and Assessments
- OLP 6608 Needs Analysis
- OLP 6609 Intervention Design and Development
- OLP 6610 The Chief Learning Officer
- OLP 6611 The Chief Diversity Officer
- OLP 6612 The Performance Consultant
- OLP 6613 Learning Technologies in HRD
- OLP 6614 The Contemporary Supervisor
- OLP 6615 Global Aspects of HRD
- OLP 6616 Theories of Adult Development
### Professional-Technical Studies (minimum of 12 credits)

- **OLP 6617** Advanced Scholarship Studies
- **OLP 6618** Advanced Topics in Facilitation
- **OLP 6619** Advanced Topics in Evaluation
- **OLP 6620** Applied Organizational Research
- **OLP 6633** Needs Assessment and Evaluation
- **OLP 6634** Leadership of Learning, Development, and Change
- **OLP 6636** Strategic Planning and HRD
- **OLP 5501** Foundations of Human Resource Development
- **OLP 5502** Occupational Analysis and Course Construction
- **OLP 5503** Methods of Training
- **OLP 5504** Evaluating Training and Development
- **OLP 5506** Grantwriting
- **OLP 5507** Instructional Technology in HRD
- **OLP 5509** Professional Readings and Writing in Human Resource Development
- **OLP 5510** Principles of Change
- **OLP 5531** Workplace Leadership
- **OLP 5544** Ethics and Diversity in the Workplace
- **OLP 5564** Facilities Management

### Research Studies coursework and capstone includes 6-12 semester hours depending upon selection of either the Thesis or Field Research Project Option.

#### Research Studies: Thesis Option

- **EDUC 6601** Research and Writing
- **EDUC 6610** Applied Educational Statistics
- **OLP 6650** Thesis

#### Research Studies: Field Research Project Option

- **OLP 6632** Research in Organizations
- **OLP 6645** Field Research Project in HRD

#### Comprehensive Exam Option (4 credits, total degree minimum 31 credits)

- **OLP 6632** Research in Organizations
- **OLP 6644** Comprehensive Examination in HRD

### Instr Tech Courses

**EDLT 5516 Integration of Technology into School Curriculum: 3 semester hours.**
Examination of appropriate and effective uses of technology in K-12 environments; focus on research-proven methods and integration strategies for online and hybrid teaching/learning environments that incorporate current and emerging digital tools

**EDLT 5555 Fundamentals of Instructional Design: 3 semester hours.**
Introduction to recognized, standard instructional design models in the field as well as design principles that guide the development of instructional materials. Students will create an instructional unit for online delivery incorporating appropriate multimedia materials. Principles related to ADA Section 508, Assistive Technology, and Universal Design for Learning will be emphasized in designing for the teaching/learning environment. **PRE-or-COREQ: EDLT 5516 or EDLT 6616**

**EDLT 5597 Professional Education Development Topics: 1-3 semester hour.**
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. Must be graded S/U

**EDLT 5599 Experimental Course: 1-6 semester hour.**
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**EDLT 6616 Integration of Technology into School Curriculum: 3 semester hours.**
Examination of appropriate and effective uses of technology in K-12 environments; focus on research-proven methods and integration strategies for online and hybrid teaching/learning environments that incorporate current and emerging digital tools

**EDLT 6621 Issues and Trends in Instructional Technology: 3 semester hours.**
Examination and discussion of current issues and innovations in instructional technology. Includes analysis of relevant historical and current national trends and issues. **PREREQ: EDLT 6616**

**EDLT 6626 Instructional Technology and Staff Development: 3 semester hours.**
Examination of in-service models for integrating technology into the K-12 curriculum, emphasizing integration of online and hybrid training environments that use current and emerging digital tools for professional development. **PREREQ: EDLT 6655**

**EDLT 6639 Delivering Instruction in Electronic Formats: 3 semester hours.**
In-depth study of distance education; emphasis on various models of online delivery, content organization and presentation, graphic design principles, and incorporation of current and emergent technology tools for online environments. Students will conduct a field test of an online instructional module and present a report of the instructional design process. **PREREQ: EDLT 6656**

**EDLT 6646 Information Systems: 3 semester hours.**
Investigation and application of computer software programs that reinforce administrative practices. Application of programs that promote effectiveness and efficiency through the appropriate development and use of data

**EDLT 6648 Independent Problems in Education: 1-3 semester hour.**
Individual work under staff guidance. Field and/or library research on specific educational problems of interest to graduate students in education. Experience in research composition. May be repeated

**EDLT 6649 Seminar: 1-3 semester hour.**
Critical analysis of the literature in one or more areas of education. Enrollment limited. May be repeated
EDLT 6650 Thesis: 1-6 semester hour.
1-6 Credits. May be repeated. Graded S/U

EDLT 6651 Field Project or Case Study in Education: 1-6 semester hour.
A Field Project or Case Analysis is completed in conjunction with the field practicum/internship and/or an educational setting scenario. Written report and oral explication required. May be repeated. Graded S/U

EDLT 6652 Field Practicum in Education: 1-6 semester hour.
Individually designed practicum in an educational setting. The length, placement, and learning experiences will be determined in consultation with the major advisor. May be repeated. Graded S/U

EDLT 6655 Fundamentals of Instructional Design: 3 semester hours.
Introduction to recognized, standard instructional design models in the field as well as design principles that guide the development of instructional materials. Students will create an instructional unit for online delivery incorporating appropriate multimedia materials. Principles related to ADA Section 508, Assistive Technology, and Universal Design for Learning will be emphasized in designing for the teaching/learning environment. PRE-OR-COREQ: EDLT 6616

EDLT 6656 Fundamentals of Multimedia Development in Education: 3 semester hours.
Exploration of the use of multimedia technology for designing digital learning content; emphasis is on online design, delivery, and evaluation. Students will conduct a field test of a multimedia instructional module and present a report of the instructional design process. PREREQ: EDLT 6655

EDLT 6659 Online Teaching Internship: 6 semester hours.
Candidates assume instructional and management responsibilities in supervised online elementary/secondary settings. Includes weekly professional development consultations. All coursework as indicated in the Online Teaching Endorsement program of study must be completed prior to enrollment in the Online Teaching Internship course. Graded S/U. PREREQ: EDLT 6616, EDLT 6626, EDLT 6639, EDLT 6655, EDLT 6656

EDLT 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

EDLT 7737 Practicum: 3 semester hours.
This is an individually designed field experience in an area of technology, supporting and extending course work within this area of concentration. The length, placement, and prescribed learning experiences will be determined in consultation with the Educational Technology advisor. May be repeated for maximum of 12 credits

EDLT 7740 Instructional Systems Design I: 3 semester hours.
Examination of the instructional design process; applications of current research related to development of instructional multimedia materials. PREREQ: EDLP 7706

EDLT 7742 Multimedia Authoring I: 3 semester hours.
Use of Macromedia Director as the main authoring system for designing instruction. PREREQ: EDLT 7740

EDLT 7743 Multimedia Authoring II: 3 semester hours.
Advanced use of Macromedia Director as an authoring system. Includes creation of digital sound graphics, animation, and movies. Student will produce a multimedia project. PREREQ: EDLT 7742

EDLT 7744 Instructional Systems Design II: 3 semester hours.
Advanced study of instructional design process. Includes consideration of current research related to formative and summative evaluation techniques for multimedia design. PREREQ: EDLT 7740

EDLT 7745 Instructional Design for Distance Learning Delivery: 3 semester hours.
Exploration of effective uses of multimedia materials in the distance learning environment. Includes investigation of skills needed for creating instructional media for distance learning. PREREQ: EDLT 7742 and EDLT 7744

EDLT 7748 Independent Problems in Instructional Design: 1-3 semester hour.
Individual field work and/or library research under staff guidance on specific instructional design problems of interest to doctoral students in the Instructional Design program. May be repeated. PREREQ: Permission of instructor

EDLT 7749 Instructional Design Seminar: 3 semester hours.
Critical analysis of research and emerging issues and trends in Instructional Design. May be repeated up to 6 credits. PREREQ: Membership in Ph.D. Doctoral Cohort

EDLT 7780 Spec Topics Instruct Design: 3 semester hours.
Investigation at an advanced level in an area of Instructional Design research, development, implementation, evaluation, or management. Content intentionally varies depending on the doctoral cohort and faculty. May be repeated up to 6 credits. PREREQ: Membership in Ph.D. Doctoral Cohort. Graded S/U

EDLT 7799 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times with the same title and content

EDLT 8850 Dissertation: 1-10 semester hour.
Variable credits. Graded S/U

Org Learning and Performance Courses

OLP 5501 Foundations of Human Resource Development: 3 semester hours.
Acquaints the student with the various aspects of human resource development: history, philosophy, and theory of HRD. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5502 Occupational Analysis and Course Construction: 3 semester hours.
Analysis of components of occupations to determine instructional content. Development of instructional materials based on performance objectives and competency identification. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5503 Methods of Training: 3 semester hours.
Training methods and techniques designed to workplace issues. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5504 Evaluating Training and Development: 3 semester hours.
Designing and conducting evaluations for business and industry training, including data analysis and preparation of evaluation reports. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5505 Learning Fundamentals: 3 semester hours.
Examination of the research related to learning fundamentals and implications for curriculum and instruction. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5506 Grantwriting: 3 semester hours.
Reasons for requesting a grant, goal setting, sample projects, identifying funding agencies, submitting a request for proposal (RFP), elements of a good proposal, library resources, web sites, and other references for grantwriting. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus
OLP 5507 Instructional Technology in HRD: 3 semester hours.
Applying evidence-based instructional principles to design, development, and evaluation of synchronous and asynchronous e-learning. Includes development of online multi-media materials for professional, industry, and educational application. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5509 Professional Readings and Writing in Human Resource Development: 3 semester hours.
Exposure to the professional literature of human resource development, including practice in writing abstracts of journal articles using APA Style. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5510 Principles of Change: 3 semester hours.
Critical analysis and discussion of change management theory, principles of leadership and change, and an in-depth review of principles related to personal change. Includes a review of current issues in managing transitions, leading change. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5531 Workplace Leadership: 3 semester hours.
Supervising in a professional-technical education or corporate training setting. Study human relation factors: planning, organizing, evaluation, staff development, labor relations, and personnel policies/practices. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5544 Ethics and Diversity in the Workplace: 3 semester hours.
A contemporary exploration of issues related to both ethics and diversity in the workplace. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5550 Adult Learning Theory: 3 semester hours.
Provides an understanding of adult learning theory as a body of academic inquiry and as applied in professional practice. Examines current and past theory and practice of adult learning. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5557 Facilitating Adult Learning: 3 semester hours.
Study of the needs and interests of adult learners in business and industry using Andragogy. Planning of conferences and workshops for adult learners. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5561 Directed Studies: 1-4 semester hour.
Individual work under staff guidance. Field research on specific occupational advances in technology. May be repeated. PREREQ: Permission of instructor required prior to registration

OLP 5564 Facilities Management: 3 semester hours.
Organization, safety, and management of facilities. An in-depth study of laboratory requirements and total facility planning. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. Graded S/U

OLP 5598P Prof Development Workshop: 3 semester hours.
New methods and opportunities to enhance and supplement skills. Subject to the approval of the dean of the student's college, a maximum of eight credits earned in workshops may be applied toward a degree; students taking the courses only for personal development may choose the 0-credit option; those seeking professional development must choose a for-credit option. Graded S/U. May be repeated

OLP 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

OLP 6601 HRD Literature for the Practitioner-Scholar: 3 semester hours.
This course introduces the career practitioner to the literature and scholarship published by researchers aimed to improve practice in the workplace. Students will learn how scholarship can be used in their respective professions to address workplace issues

OLP 6602 Principles of HRD: 3 semester hours.
Designed to be one of the first courses students take, this course introduces foundational principles of the human resource development discipline that should serve as an integrative thread throughout the M.OLP program. This course introduces research, performance, change, and learning and development concepts

OLP 6603 Psychology of Leadership: 3 semester hours.
Building upon leadership theories and models, this course looks at research and pertaining specifically to the psychological aspects of leadership as well as followership

OLP 6604 Leadership Scholarship: 3 semester hours.
A review of current and emerging research specifically around the topic of leadership, as well as implications for practice

OLP 6605 Organizational Development: 3 semester hours.
Through an organizational lens, rather than an individual lens, students will explore the research and practices related to building and sustaining organizational performance

OLP 6606 Contemporary Theories of Motivation: 3 semester hours.
A rich, cross discipline view of historical and contemporary motivation research

OLP 6607 Workplace Evaluations and Assessments: 3 semester hours.
An advanced look at organizational evaluation practices, as well as assessment and analysis tools

OLP 6608 Needs Analysis: 3 semester hours.
An in-depth look at the processes and practices of conducting needs and cause analyses. This course utilizes systematic processes to more clearly and accurately identify performance gaps

OLP 6609 Intervention Design and Development: 3 semester hours.
The practice of addressing performance gaps too often leads to insufficient or inaccurate efforts due to a lack of understanding of the variables influencing or affecting the gap. In this course, students will learn how to diagnose the performance gaps and address them through specific and appropriate interventions

OLP 6610 The Chief Learning Officer: 3 semester hours.
This course specifically looks at the issues, opportunities, and experiences of people working in CLO or equivalent positions

OLP 6611 The Chief Diversity Officer: 3 semester hours.
This course specifically looks at the issues, opportunities, and experiences of people working in CDO or equivalent positions

OLP 6612 The Performance Consultant: 3 semester hours.
This course specifically looks at the issues, opportunities, and experiences of people working in consulting roles, both internal and external

OLP 6613 Learning Technologies in HRD: 3 semester hours.
This course examines the practice and scholarship supporting the use of current technologies to support learning
OLP 6614 The Contemporary Supervisor: 3 semester hours.
An examination of the evolution of supervisory issues and practices over time

OLP 6615 Global Aspects of HRD: 3 semester hours.
An examination of the literature, issues, and challenges of leading and working in HRD in a global environment

OLP 6616 Theories of Adult Development: 3 semester hours.
An examination of the literature and theories of learning motivations across adulthood and their impact on personal and professional efficacy, pursuits, and contributions

OLP 6617 Advanced Scholarship Studies: 3 semester hours.
This course will benefit students who have research and topical interests that they want to explore, leading towards mastery in a certain aspect of HRD

OLP 6618 Advanced Topics in Facilitation: 3 semester hours.
This course examines the literature and advanced practice of facilitation in a variety of learning settings

OLP 6619 Advanced Topics in Evaluation: 3 semester hours.
An examination of the literature and advanced practices of evaluation in a variety of settings

OLP 6620 Applied Organizational Research: 3 semester hours.
Under the direction of the instructor, the class will collectively work on an organizational research problem

OLP 6621 Theories of Adult Learning: 3 semester hours.
Explores theories of adult learning as a body of academic inquiry and as applied in professional practice within organizations. Examines cross-cultural theories and practice of learning, including practice developing and interpreting theoretical lenses within scholarly literature

OLP 6632 Research in Organizations: 3 semester hours.
Examination of methods for designing and conducting research for organizations. Compares methods and models of addressing real world workplace problems with evidence-based approaches. Introduction to procedures for data collection and analysis of quantitative and qualitative data, and style and format requirements for formal report writing. PREREQ: OLP 6601 and OLP 6602 or permission of instructor

OLP 6633 Needs Assessment and Evaluation: 3 semester hours.
Review of practical needs assessment and evaluation models, frameworks, and best practices that guide the design and implementation of learning and development programs for organizations in a variety of learning environments

OLP 6634 Leadership of Learning, Development, and Change: 3 semester hours.
Exploration of leadership influences on learning and development, with a focus on effective change leadership and the development of change agents within organizations. Learning will be defined as an overarching process within an organization's structure that enables knowledge sharing, including training. Development will address talent management and motivation in a context of change initiatives

OLP 6635 Practicum in HRD: 3 semester hours.
An individually designed field experience under the supervision of the faculty and an experienced professional. PREREQ: Permission of instructor required prior to registration

OLP 6636 Strategic Planning and HRD: 3 semester hours.
Examination of HRD frameworks and approaches for developing effective strategic plans. This course develops organizational learning and performance professionals who can facilitate strategic planning and decision-making toward advancing the organizational enterprise

OLP 6637 Internship in HRD: 1-3 semester hour.
An individually designed professional experience under the supervision of the faculty and an experienced practitioner in the field. May be repeated up to 6 credits. Graded S/U. PREREQ: Permission of instructor required prior to registration

OLP 6640 Seminar in HRD: 1-3 semester hour.
Current topics in the management of human resource development presented by department faculty and visiting lecturers. Maximum of 3 credits applied to the degree. Graded S/U

OLP 6644 Comprehensive Examination in HRD: 1 semester hour.
An individual written examination integrating the content, concepts, and theory learned across the M.OLP program through a written report supported by scholarship and defended in an oral explanation. May not be repeated. Graded S/U. PREREQ: Permission of instructor required prior to registration

OLP 6645 Field Research Project in HRD: 1-6 semester hours.
An individual field research project must be completed; a written report and oral explanation of the report will be required. May be repeated up to 6 credits. Graded S/U. PREREQ: Permission of instructor required prior to registration

OLP 6650 Thesis: 1-6 semester hour.
Thesis. May be repeated. Graded S/U. PREREQ: Permission of instructor required prior to registration

OLP 6660 Contemporary Issues in HRD: 3 semester hours.
Exploration of issues relating to the functions of HRD - Individual Development, Career Development, and Organizational Development. Emphasis on how these functions relate to the industrial/business environment

OLP 6661 Performance Improvement: 3 semester hours.
Through a systems approach, critical analysis, discussion and application of performance technology in the workplace. Includes review of current research, theories, methods, and models

OLP 6662 Distance Learning Delivery Practices: 3 semester hours.
Exploration of the distance delivery medium including on-screen practices, media development, curriculum planning, instructional strategies, technical support. Includes review of research and theory relating to distance learning

OLP 6663 Instructional System Evaluation: 3 semester hours.
Critical analysis and discussion of the roles of evaluation in HRD. Emphasis on theories of program and curriculum evaluation

OLP 6664 Topics in Human Resource Development: 3 semester hours.
Critical analysis of current topics in Human Resource Development. Opportunities will be provided for students to study independently with specialists in topic areas

OLP 6680 Advanced Technical Competency: 1-4 semester hour.
Advanced occupational skills and knowledge obtained from modern practice in selected field. For experienced professionals seeking advanced techniques in specialized areas of PTE and HRD. PREREQ: Approval of advisor required

OLP 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated
Professional Technical Ed Courses

PTE 5501 Foundations of Professional-Technical Education: 3 semester hours.
Acquaints the student with the various aspects of professional-technical education: history, legislation, philosophy, and organization of professional-technical education. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor required prior to registration

PTE 5502 Occupational Analysis and Course Construction in Professional-Technical Education: 3 semester hours.
Analysis of components of occupations to determine instructional content. Development of professional-technical education instructional materials based on performance objectives. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor required prior to registration

PTE 5503 Methods of Teaching in Professional Technical Education: 3 semester hours.
Teaching methods and techniques applicable to teaching in professional-technical education. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor required prior to registration

PTE 5504 Evaluation in Professional-Technical Education: 3 semester hours.
Designing and conducting formative and summative assessments and evaluations in professional-technical education. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor required prior to registration

PTE 5543 Supervision and Organization of Career and Technical Student Organizations: 3 semester hours.
This course is an examination of historical perspectives of Career and Technical Student Organizations. Course will focus on recruitment and retention of student members, the development of student leadership skills, presentation skills, technical skills appropriate to the specific career program, and implications of state and federal CTSO standards. Instruction will also include preparing students for local, state and national skills events. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor required prior to registration

PTE 5544 Career Guidance and Special Needs in Professional-Technical Education: 3 semester hours.
Examine career guidance concepts, specialist services, special needs legislation, abilities and disabilities (both mental and physical), job-seeking skills, and information sources for PTE. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor required prior to registration

PTE 5564 Professional Technical Education Instructional Facilities Management: 3 semester hours.
Organization, safety, and management of professional-technical education teaching facilities. An in-depth study of laboratory requirements and total facility planning. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor required prior to registration

School Psychology and Educational Leadership

Doctor of Education in Educational Leadership

The Doctor of Education in Educational Leadership is the College of Education’s highest degree awarded in recognition of academic preparation for professional practice in educational leadership. Because students enter the program with substantial knowledge, skills, abilities, and experience, the doctorate degree in Educational Leadership seeks to support the development of education professionals as scholars, researchers, and practitioners. This three-part whole provides the grounding from which all benchmarks of the student’s educational journey, from admissions, to advancement to candidacy, and ultimately program completion, are assessed. The doctorate in Educational Leadership does not lead to certification as a superintendent (see Educational Specialist in Educational Leadership below).

As scholars, Doctors of Educational Leadership demonstrate content mastery. As researchers, Doctors of Educational Leadership demonstrate the application of content mastery through scholarly contributions reflecting the necessary dispositions and skills to successfully conduct meaningful education research. Finally, through guided practicum experiences, Doctors of Educational Leadership demonstrate their ability to use acquired knowledge, dispositions and skills as scholars and researchers in applied educational leadership settings.

Ed.D in Educational Leadership Standards

The Ed.D. in Educational Leadership is aligned with two sets of standards: the Idaho State University Standards for Advanced Professionals (described in the previous section), and the Doctor of Education in Educational Leadership Standards.

Doctor of Education in Educational Leadership Standards

The Doctor of Education in Educational Leadership Standards addresses the knowledge, dispositions, skills and strategies that frame successful educational leadership. They include: Organizational Development, Consultation, Diversity, Supervision, Managing Change, Applied Foundations, Technology, Research, Teaching and Learning Theory, and Leadership, Ethics and Communication.

Educational Specialist in Education Administration

The Education Specialist program represents advanced work in education administration leading to superintendent certification. Applicants will enter the program after completion of a master’s degree in Education Administration. Completion of the Education Specialist program will require a minimum of 31 semester credit hours beyond the master’s degree with an accumulated GPA of 3.5 during the specialist program. Students with a master’s degree in areas other than administration may be required to take additional work equivalent to that required in the administration degree and must meet initial principal certification.

Ed.S. Educational Leadership Standards

The Education Specialist in Education Administration curriculum is aligned with three separate but related sets of standards: The Idaho State University College of Education Standards for Advanced Professionals (described previously), the Interstate School Leaders Licensure Consortium (Standards for School Leaders), and the Idaho State Department of Education’s requirements for an Administrator Certificate with the Superintendent endorsement. All sets of standards are aligned.
Interstate School Leaders Licensure Consortium
Codified in 2014, the three domains and 14 standards represent best practice model standards for school leaders. The domains represent a common core of knowledge, dispositions and performance skills developed to link leadership more forcefully to productive schools and enhance educational outcomes. The domains include facilitating a safe and supportive school climate, meaningful collaborative leadership, and effective instructional leadership.

Idaho State Department of Education Administrator Certificate with the Superintendent Endorsement
These standards address competencies determined by the State of Idaho to be necessary for effective school (district level) leadership (i.e., the superintendent). These standards include: Advanced School Finance, Grant Writing & Revenue Generation, Policy Development & School Board Relations, District Wide Support Services, Employment Practices & Negotiations, Educational Product Marketing & Community Relations, and Special Services & Federal Programs. Superintendent level certification endorsement can be a student outcome through this curricular/standards alignment.

Master of Education with P-12 Educational Administration Emphasis
The curriculum in the Master of Education with P-12 Educational Administration emphasis is designed to strengthen the student's understanding, knowledge, and skills in Core Professional Studies and Educational Administration as they relate to successful P-12 education administration. The Master of Education with P-12 Educational Administration emphasis can lead to certification as a P-12 principal.

Master of Education in P-12 Educational Administration Standards
The Masters of Education with P-12 Educational Administration emphasis leading to P-12 principal certification curriculum is aligned to two related sets of standards: The Idaho State University College of Education Standards for Advanced Professionals (described previously) and the Idaho State Department of Education Foundation Standards for the Preparation of School Administrators. The Master of Education in Educational Leadership curriculum is aligned to the Idaho State University College of Education Standards for Advanced Professionals (previously described).

Idaho State P-12 Principal Certification Standards
These standards address competencies determined by the State of Idaho to be necessary for effective school leadership (i.e., principal). Standards must be met through graduate level course work in school administration for the preparation of school principals at an accredited college or university. The 14 standards are embedded in three primary domains, including School Climate, Collaborative Leadership, and Instructional Leadership. Idaho principal certification can be a student outcome through this curricular/standard alignment.

Doctor of Education in Educational Leadership
Admission Requirements
Admission to the Educational Leadership doctoral program is based on a rolling-cohort model. Cohorts cycle through approximately every three years. Screening of applications for cohort admission begins April 15th of the year in which a cohort is scheduled to begin the program. Outside the cohort, applications are reviewed on an ongoing basis. Non-cohort applications are reviewed fall, spring and summer. Every effort is made to support the doctoral program of study of non-cohort students.

At the time of application, the applicant must specify a single area of concentration (i.e., P-12 Education Administration, Higher Education Administration, Instructional Design and Technology). Should a student wish to change his or her area of concentration, he or she must reapply to the Graduate School for readmission to the doctoral program in Educational Leadership.

For admission to the Doctor of Education in Educational Leadership, the student must apply to and meet criteria for admission to the Graduate School. The applicant must also meet the following minimum admission requirements:

1. A master’s degree in education or a related field from a regionally accredited institution. A minimum of a 3.5 grade point average at the graduate level course work
2. Letter of interest, stating why the applicant is interested in the Ed.D. (specify concentration)
3. A minimum score at the 40th percentile on the Miller Analogies Test (MAT) or on either the Verbal Reasoning or Analytical Writing section on the Graduate Record Examination (GRE)
4. A current resume that includes the names of two professional references who can address the academic or professional/leadership qualifications of the applicant
5. Successful completion of an interview with faculty in the proposed concentration area
6. Successful performance of a writing sample completed in conjunction with the interview

International students whose native language is not English must comply with Graduate School admissions requirements. Additional language-based course work may be required of international students whose native language is not English.

General Requirements
The Doctor of Education in Educational Leadership with emphasis in Higher Education Administration requires a minimum of 64 semester credits of course work:

- 18 credits in the doctoral core
- 27 credits in the area of emphasis, including 3 credits of electives
- 9 credits of cognate courses (5500 level and above)
- 10 dissertation credits

The Doctor of Education in Educational Leadership with emphasis in P-12 Education Administration requires a minimum of 61 credits:

- 18 credits in doctoral core
- 24 credits in the area of emphasis, including a minimum of 3 practicum credits
- 9 credits of cognate courses (5500 level and above)
- 10 dissertation credits

The Doctor of Education in Educational Leadership with emphasis in Instructional Design and Technology requires a minimum of 61 credits:

- 15 credits in doctoral core
- 27 credits in the area of emphasis, including a minimum of 6 practicum credits and 9 EDLT elective credits
- 9 credits of cognate courses (5500 level and above)
- 10 dissertation credits

The Educational Leadership program defines cognate study as a planned set of courses, 5500-level and above, outside the student’s concentration area, taken
within the College of Education or outside it. Cognate study is to be determined prior to cognate course enrollment, in consultation with the student’s advisor.

Of the 61/64 semester credits required for the Ed.D. in Educational Leadership, at least 30 semester credits of course work must be taken at Idaho State University. Dissertation credits may not be transferred from another institution.

Students are required to maintain continuous enrollment at least one semester of credit each semester (including summers) from matriculation to completion of the program including completion of the dissertation and oral defense. Failure to maintain continuous enrollment can result in dismissal from the program.

Students must maintain a 3.2 grade point average to qualify for the Doctor of Education. Two grades of C+ or below during the entire program will result in admissions status review, with the possibility of dismissal.

Final Program of Study

Tentative programs of study may be drafted upon program entry with the help of the student’s advisor. The final program of study must be submitted with the Comprehensive Examination Notice of Intent and routed through the student’s advisor, the Department, and the Dean of the College of Education. Upon submission of the final program of study to the Dean of the Graduate School, the Dissertation Committee, including the Graduate Faculty Representative, is established and the student is advanced to candidacy.

Comprehensive Examination

The comprehensive examination is a significant aspect of the student’s total doctoral program. The written examination is normally administered during or immediately following the last semester in which the student is engaged in formal course work.

The comprehensive examination has, as its overall objective, the assessment of the student’s knowledge, understanding, and skills as they relate to the field of educational leadership. Examination guidelines are provided in the Ed.D. Handbook.

Dissertation and Oral Defense

Upon successful completion of the comprehensive examination and approval of the dissertation proposal by the student’s Dissertation Committee, the student is authorized to complete the dissertation in preparation for the final oral defense.

Required Courses

The Doctor of Education in Educational Leadership requires a minimum of 61/64 semester credits of course work. Doctoral degrees in P-12 Education Administration and Higher Education Administration require 18 credits in the doctoral core. The Doctor degree in Instructional Design and Technology requires 15 credits in the doctoral core. A minimum of 24 credits in the area of concentration is required for the Ed.D. in P-12 Education Administration. The Ed.D. in Higher Education Administration requires 24 credits in the area of concentration and 3 elective credits. The Ed.D. in Instructional Design and Technology requires 27 concentration area credits that includes 9 credits of EDLT electives and 6 credits of practicum (EDLT 7737). Each emphasis require 9 credits of cognate study (determined in consultation with the student’s advisor and concentration area) at the graduate level (5500 or above), and at least 10 dissertation credits. The student may select from the following areas of emphasis: P-12 Education Administration, Higher Education Administration, or Instructional Design and Technology.

### Doctor of Education in P-12 Education Administration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDLP 7701</td>
<td>Leadership and Org Devel</td>
<td>3</td>
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<tr>
<td>EDLP 7705</td>
<td>Adv Res Design I Qualitative</td>
<td>3</td>
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<td>EDLP 7706</td>
<td>Advanced Research Design II (Quantitative)</td>
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<td>EDLP 7721</td>
<td>Intermediate Statistics in Edu</td>
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<td>EDLP 8800</td>
<td>Doctoral Seminar</td>
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<td>EDLP 8801</td>
<td>Capstone Seminar</td>
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<tr>
<td>EDLP 8830</td>
<td>Comp Exam</td>
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### P-12 Education Administration Concentration (24 credits)

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<tbody>
<tr>
<td>EDLA 6643</td>
<td>School Personnel Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDLA 6662</td>
<td>The Superintendency</td>
<td></td>
</tr>
<tr>
<td>EDLA 6664</td>
<td>Public School Monetary Policy</td>
<td>3</td>
</tr>
<tr>
<td>EDLA 7720</td>
<td>Legal and Ethical Issues in Educational Organizations</td>
<td>3</td>
</tr>
<tr>
<td>EDLA 7721</td>
<td>Educational Policy and Governance</td>
<td>3</td>
</tr>
<tr>
<td>EDLA 7723</td>
<td>Educational Planning and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDLA 7724</td>
<td>Data Informed Instructional Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDLA 7737</td>
<td>Practicum</td>
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<tr>
<td>EDLA 7751</td>
<td>Case Analysis in Educational Administration</td>
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### Cognates (9 credits)

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<td>EDLP 8840</td>
<td>Dissertation Prospectus</td>
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<tr>
<td>EDLP 8850</td>
<td>Dissertation</td>
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Total Hours 43-59

### Doctor of Education in Higher Education Administration

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EDLP 7700</td>
<td>Change Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 7703</td>
<td>Leadership and Org Devel</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 7705</td>
<td>Adv Res Design I Qualitative</td>
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<td>Comp Exam</td>
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### Higher Education Administration Concentration Courses (24 credits)

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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>EDLP 7730</td>
<td>History and Philosophy of Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 7731</td>
<td>Law in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 7732</td>
<td>College and University Curriculum</td>
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</tr>
<tr>
<td>EDLP 7733</td>
<td>Finance in Higher Education</td>
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</tr>
<tr>
<td>EDLP 7734</td>
<td>Issues and Trends in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 7736</td>
<td>Instructional Leadership and Faculty Affairs in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDLP 7737</td>
<td>Practicum</td>
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</tr>
<tr>
<td>EDLP 7738</td>
<td>Assessment and Accountability in Higher Education</td>
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### Electives (3 credits)

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<tr>
<td>EDLC 7730</td>
<td>The Modern Community College</td>
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<tr>
<td>EDLC 7735</td>
<td>Government and External Relations</td>
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<tr>
<td>EDLP 7739</td>
<td>Higher Education Leadership Strategic and Enrollment Planning Governance Institutional Research</td>
<td>3</td>
</tr>
<tr>
<td>COUN 6680</td>
<td>Foundations of Student Affairs</td>
<td>3</td>
</tr>
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### Cognates (9 credits)

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>EDLP 8840</td>
<td>Dissertation Prospectus</td>
<td>1-6</td>
</tr>
</tbody>
</table>
Education Specialist in Education Administration

Admission Requirements

For admission to the Education Specialist program, the student must apply to, and meet all criteria for, admission to the Graduate School. The student must meet the following requirements:

- A master’s degree in education administration with a minimum 3.5 GPA at the graduate level from an accredited institution
- A minimum of five years of successful teaching and/or administration experience in P-12 schools, including at least one year of successful administrative experience
- A letter of interest stating the applicant’s interest in the Ed.S. program
- A current resume, including the names of and contact information for at least 2 professional references
- A minimum score at the 40th percentile the Miller Analogies Test (MAT) OR on either the Verbal or Analytical Writing sections of the Graduate Record Examination (GRE)

General Requirements

The Education Specialist program requires a minimum of 31 credits, distributed as listed below to complete. Students must complete the minimum semester hours identified in each area. The courses used to meet the minimum requirements may be taken during the master’s degree or educational specialist program. In general, the program of study for the Education Specialist in Education Administration is as follows:

<table>
<thead>
<tr>
<th>Educational Specialist in Education Administration</th>
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<tbody>
<tr>
<td><strong>Prerequisite</strong></td>
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<tr>
<td>EDUC 6610  Applied Educational Statistics  3</td>
</tr>
<tr>
<td>The student must have successfully completed a master’s level education statistics course within five (5) years prior being accepted into the program or during the first semester of coursework in the Ed.S. program for which credit will not be counted toward degree.</td>
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<thead>
<tr>
<th>Education Administrative Concentration Courses</th>
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<tbody>
<tr>
<td>EDLA 6643  School Personnel Administration  3</td>
</tr>
<tr>
<td>EDLA 6662  The Superintendentcy  3</td>
</tr>
<tr>
<td>EDLA 6664  Public School Monetary Policy  3</td>
</tr>
<tr>
<td>EDLA 7720  Legal and Ethical Issues in Educational Organizations  3</td>
</tr>
<tr>
<td>EDLA 7721  Educational Policy and Governance  3</td>
</tr>
<tr>
<td>EDLA 7723  Educational Planning and Evaluation  3</td>
</tr>
<tr>
<td>EDLA 7724  Data Informed Instructional Leadership  3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students may select from courses offered in the doctoral program or as determined in consultation with their academic advisor.</td>
</tr>
<tr>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLA 7737  Practicum  3</td>
</tr>
<tr>
<td>EDLA 7751  Case Analysis in Educational Administration  1</td>
</tr>
<tr>
<td>Total Hours  34</td>
</tr>
</tbody>
</table>

Master of Education with P-12 Educational Administration Emphasis

The curriculum in the Master of Education with P-12 Educational Administration emphasis is designed to strengthen the student's understanding, knowledge, and skills in Core Professional Studies and Education Administration as they relate to successful P-12 education administration. The Master of Education with P-12 Educational Administration emphasis can lead to certification as a P-12 principal.

Master of Education in P-12 Educational Administration Standards

The Master of Education in Education Administration leading to P-12 principal certification curriculum is aligned to two related sets of standards: The Idaho State University College of Education Standards for Advanced Professional (described previously) and the Idaho State Department of Education Foundation Standards for the Preparation of School Administrators. The Master of Education in Educational Leadership curriculum is aligned to the Idaho State University College of Education Standards for Advanced Professionals (previously described).

Idaho State P-12 Principal Certification Domains and Standards

These domains and standard address competencies determined by the State of Idaho to be necessary for effective school leadership (i.e., principal). Standards must be met through graduate level course work in school administration for the preparation of school principals at an accredited college or university. The 14 standards are embedded in three primary domains including School Climate, Collaborative Leadership, and Instructional Leadership. Idaho principal certification can be a student outcome through this curricular/standard alignment.

Admission Requirements

For admission to the Master of Education in P-12 Education Administration, the student must apply to and meet all criteria for admission to the Graduate School. The applicant must also meet the following minimum admission requirements:

1. A bachelor’s degree from an accredited institution; usually that degree is in an education-related field
2. Minimum of one year of P-12 teaching experience or documentation of equivalent experience for the P-12 school administration emphasis
3. A letter of interest, stating the applicant’s interest in the program
4. Current resume, including the names of an contact information for at least 2 professional references
5. A minimum GPA of 3.0 for all upper division credits taken at the undergraduate level
6. Standardized test information that meets Graduate School admission requirements

The Master of Education with P-12 Education Administration emphasis requires a minimum of 31 credits.

Students seeking Idaho principal certification (P-12 Education Administration) must meet requirements of the State Board of Education. It is recommended that students pursuing the Master of Education with P-12 Education Administration emphasis have professional experience in an educational context.

Master of Education in P-12 Education Administration (31 credits)

<table>
<thead>
<tr>
<th>Required Core Professional Studies (9 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6601  Research and Writing  3</td>
</tr>
<tr>
<td>EDUC 6602  Theories of Learning  3</td>
</tr>
<tr>
<td>EDUC 6610  Applied Educational Statistics  3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Leadership Foundation Studies (9 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLA 6608  Organizational Leadership and Education Administration  3</td>
</tr>
<tr>
<td>EDLA 6609  Principalship  3</td>
</tr>
<tr>
<td>EDLA 6612  School Law, Governance, and Ethics  3</td>
</tr>
</tbody>
</table>
The Ed.S. is viewed as a practitioner’s degree and will focus on applied activities.

A master’s degree as a school psychologist or its equivalent is required.

The Ed.S. in School Psychology is designed to be consistent with the minimal entry-level requirements in the field of school psychology as presented by the National Association of School Psychologists. A master’s degree as a school psychological examiner or its equivalent is required.

The Ed.S. is viewed as a practitioner’s degree and will focus on applied activities.

General Requirements

The student must complete 64 credits in Special Education or 66 credits in School Psychology, including the master’s degree and a specialist paper. All post-master’s degree course work must be taken from members of the Idaho State University graduate faculty or be approved in advance by the graduate faculty. A minimum grade point average of 3.0 (B) is required over all course work taken in the Ed.S. program. An oral examination covering the specialist paper, portfolio, and/or relevant topics is required.

Time Requirement

All requirements for the Ed.S. must be completed within a period of five years from the date of completion of the first post-master’s degree course to be applied toward the degree.

Specific Requirements: School Psychology Major

The Ed.S. in School Psychology is designed to be consistent with the minimal entry-level requirements in the field of school psychology as presented by the National Association of School Psychologists. A master’s degree as a school psychological examiner or its equivalent is required.

The Ed.S. is viewed as a practitioner’s degree and will focus on applied activities.

The following course work is required:

1. A minimum of 21 credits in special education course work at or above the 6600 level (including administration of special education), of which 6 credits are in the supervision of clinical practicum in special education and 3 credits are in internship in special education.
2. Behavioral sciences and/or education/school psychology, 9 credits.

The number of credits will be determined by the advisor and student.

Master of Education in Special Education

Admission Requirements

Candidates for the Educational Specialist in School Psychology or Special Education degree must meet all college and university requirements for admission and retention. The student must hold a master’s degree in the area of the chosen Ed.S. major. Master’s degree majors in a closely related field may be approved upon recommendation of the selection committee.

General Requirements

Applicants for the Master of Education in Special Education must apply to, and meet all criteria for, admission to the Graduate School and all college requirements for admission and retention.

Individuals applying for admission to the Master of Education program in Special Education must meet the following admission requirements:

• Bachelor’s degree from a regionally accredited college or university in the United States, or its equivalent from a school in another country.
• Grade point average of 3.0 or higher for all upper division credits taken at the undergraduate level.

General Requirements

Students completing a Master of Education in Special Education must complete both a written comprehensive examination and an oral examination.

Professional Studies Core

EDUC 6601 Research and Writing 3
EDUC 6602 Theories of Learning 3
EDUC 6610 Applied Educational Statistics 3

Additional Requirements for the Special Education Option

Student must either have an undergraduate special education major or a 14-credit undergraduate core of special education course work including:

SPED 3330 The Exceptional Child
SPED 3334 Classroom Behavior Management
SPED 5523 Designing Instruction
SPED 5524 Assessment Procedures in Special Education
SPED 5527 Precision Teaching

These courses will not be counted as part of the master’s degree program.

Persons seeking initial certification must also complete:

SPED 5529 Strategies Severe Disabilities
SPED 5532 Direct Instruction Systems
SPED 5538 Policies and Procedures in Special Education
SPED 5546 Secondary Special Education

Persons must also complete the Idaho Technology Portfolio assessment.

SPCY 6614 Diagnostic Evaluation of Learning Difficulties 3
SPED 6603 Professional Development in Special Education 2
SPED 6638 Practicum in Special Education 6
EDLA 6642 School Culture and Community Relations: 3 semester hours.  
Overview of school culture and climate in relationship to school communications and public relations. Explores diversity and equity issues related to students, staff, and community  
EDLA 6643 School Personnel Administration: 3 semester hours.  
Study of effective human resources management, including legal and ethical issues related to recruitment, selection, induction, staff development, employee assistance, evaluation, contract negotiations and personnel management  
EDLA 6648 Independent Problems in Education: 1-3 semester hour.  
Individual work under staff guidance. Field and/or library research on specific educational problems of interest to graduate students in education. Experience in research composition. May be repeated  
EDLA 6649 Issues in Education Administration: 3 semester hours.  
Critical analysis of issues, trends and current topics in education administration  
EDLA 6650 Thesis: 1-6 semester hour.  
Thesis credits. May be repeated  
EDLA 6651 Case Analysis in Education: 1 semester hour.  
An educational leadership scenario is presented to the student as a capstone experience for the Master's degree or principal certification program in Education Administration. A written report and oral explication is required. May be repeated one time. Graded S/U. PREREQ: Permission of instructor  
EDLA 6657 Internship: 1-3 semester hour.  
A partnership between the University and P-12 schools providing students experience in school leadership and administration. Student completes 260 hours of internship experience in school leadership including a minimum of 60 hours of on-site work at each level (elementary, middle, and high school) with accompanying portfolio. Students must enroll for 3 credits in their first semester, and at least 1 credit/semester of continuous enrollment. PREREQ: Two of EDLA 6608, EDLA 6612, and/or EDLA 6615, and permission of instructor. Graded S/U  
EDLA 6662 The Superintendency: 3 semester hours.  
Study of school district leadership including organizational systems, ethics, change processes, school board operations, community relations, the role of education in a democratic society, and the needs of diverse constituencies  
EDLA 6664 Public School Monetary Policy: 3 semester hours.  
Advanced study of the financial structure of public schools, including equity issues, taxation, revenue generation (grants) and budget development. Special emphasis on Idaho public education  
EDLA 6669 Experimental Course: 1-6 semester hour.  
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated  
EDLA 7720 Legal and Ethical Issues in Educational Organizations: 3 semester hours.  
Advanced study of legal and ethical issues in educational organizations and school systems, including major court cases, use of legal counsel and monitoring of legal compliance  
EDLA 7721 Educational Policy and Governance: 3 semester hours.  
Study of the relationship between politics, policy and governance of education organizations, including political systems, inter-governmental relations, power and conflict, and policy development regarding equity, quality and efficiency  
EDLA 7723 Educational Planning and Evaluation: 3 semester hours.  
Study of planning and evaluation in education organizations including strategic planning, effectiveness and curriculum audits, facility planning, and program planning and evaluation
EDLA 7724 Data Informed Instructional Leadership: 3 semester hours.
The study of the use of data to support district-wide planning, implementation, and monitoring of curriculum, assessment, and instruction

EDLA 7737 Practicum: 1-3 semester hour.
Students observe, participate in and perform activities in a school setting. Designed to facilitate school/district leadership knowledge, skills and dispositions. Focus on certification standards. May be repeated for a maximum of 12 credits. PREREQ: Permission of instructor

EDLA 7748 Independent Problems in Education Administration: 1-3 semester hour.
Individual field work and/or library research under staff guidance on specific education administration problems of interest to doctoral students in the Education Administration program. May be repeated. PREREQ: Permission of instructor

EDLA 7751 Case Analysis in Educational Administration: 1 semester hour.
A final case analysis scenario is provided to the student as a capstone experience for the Education Specialist degree in Education Administration. A written report and oral explication is required. This course will also serve as the final assessment for the content specialization area of the doctoral degree. May be repeated one time. Graded S/U. PREPREQ: Permission of instructor

Educational Leadership Courses

EDLP 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

EDLP 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

EDLP 7700 Change Strategies: 3 semester hours.
Investigation and application of individual and organizational change strategies and tactics

EDLP 7702 Supervision and Empowerment: 3 semester hours.
Practical study of leadership values use of coaching, participative management, team building, and critical inquiry to improve supervision in complex organizations

EDLP 7703 Leadership and Org Devel: 3 semester hours.
Students will identify and critique several leadership and organizational theories and their application to work environments, and demonstrate a professional code of ethics and values

EDLP 7705 Adv Res Design 1 Qualitative: 3 semester hours.
Process-based examination of qualitative research designs and methodologies commonly used in education and related fields. PREREQ: EDUC 6601 and EDUC 6610 or permission of instructor

EDLP 7706 Advanced Research Design II (Quantitative): 3 semester hours.
Process-based examination of quantitative research designs and methodologies commonly used in education and related fields. PREREQ: EDLP 7721 or EDLP 7722 or equivalent or permission of instructor

EDLP 7721 Intermediate Statistics in Edu: 3 semester hours.
Applications of intermediate statistical methods used in the analysis of quantitative measurement data in education and related fields. Introduces time-series and multi-factor experiments. PREREQ: EDUC 6610 or equivalent

EDLP 7722 Advanced Statistics in Education: 3 semester hours.
Applications of advanced statistical methods most frequently used in the analysis of quantitative measurement data in education and related fields. PREREQ: EDUC 6610 and EDLP 7705 or EDLP 7706 or equivalent or permission of instructor

EDLP 7748 Ind Probs in Educ Leadership: 1-3 semester hour.
Individual field work and/or library research under staff guidance on specific education leadership problems of interest to doctoral students in the Educational Leadership program. May be repeated. PREREQ: Permission of instructor

EDLP 7799 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times with the same title and content

EDLP 8800 Doctoral Seminar: 1 semester hour.
Serves as an initiation/orientation to doctoral study. Exploration of educational leadership through readings, reflection and dialog. Taken during the first year of doctoral course work. Graded S/U

EDLP 8801 Capstone Seminar: 1 semester hour.
Provides doctoral students with a capstone experience designed to support and facilitate the comprehensive examination preparation and dissertation process. Taken during the final year of course work. Graded S/U

EDLP 8830 Comp Exam: 1 semester hour.
A capstone requirement of all doctoral students in the Doctor of Education program. Students enroll in EDLP 8830 when they have successfully completed all other core, concentration area, and cognate courses. Is a prerequisite for EDLP 8850. Graded S/U. PREREQ: Permission of the instructor

EDLP 8840 Dissertation Prospectus: 1-6 semester hour.
Development of the dissertation prospectus, the step prior to the proposal meeting. COREQ: EDLP 8830. PREREQ: Permission of instructor

EDLP 8850 Dissertation: 1-10 semester hour.
Variable credits. May be repeated. Graded S/U. PREREQ: EDLP 8830 and permission of the instructor

Higher Education and Community College Courses

EDLC 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

EDLC 6609 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

EDLC 7730 The Modern Community College: 3 semester hours.
Course content addresses the history and philosophy of community college education, including Tribal colleges. Examines the mission, objectives, educational functions, populations served, student and faculty characteristics, and current issues facing community colleges in a global environment

Higher Education Administration Courses

EDLH 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated
EDLH 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

EDLH 7730 History and Philosophy of Higher Education: 3 semester hours.
Comprehensive analysis of the origin of institutions of higher learning, their philosophical foundations and historical contexts from the classical periods of Greece and Rome to the 20th century

EDLH 7731 Law in Higher Education: 3 semester hours.
In-depth study of legal issues affecting public and private higher education institutions and systems. Emphasis on statutory provisions, court decisions, common law principles, and constitutional requirements

EDLH 7732 College and University Curriculum: 3 semester hours.
In-depth study of current higher education curriculum practices and issues in the context of historical, philosophical, and political influences. Includes focus on processes of curriculum development

EDLH 7733 Finance in Higher Education: 3 semester hours.
Critical analysis of issues in public and private higher education finance. Includes examination of alternative financing sources and methods, resource allocation, and fiscal management

EDLH 7734 Issues and Trends in Higher Education: 3 semester hours.
Critical analysis of current topics in higher education. Consideration of roles and responsibilities of chief academic officers, boards of regents, faculties, and student services

EDLH 7735 Government and External Relations: 3 semester hours.
Course explores leadership strategies for effective advocacy with state and federal policy makers, governing boards, development boards, foundations, business and industry, and the general public

EDLH 7736 Instructional Leadership and Faculty Affairs in Higher Education: 3 semester hours.
Practical study of leadership values and practices unique to higher education and necessary for successful administration in the context of shared governance: focus on faculty leadership in processes of curriculum and program design for college learners evaluation; remediation, and rewards; and the development of academic policy

EDLH 7737 Practicum: 1-3 semester hour.
A partnership between the Higher Education Concentration and various educational entities where students can experience higher education leadership and administration and their leadership can be assessed. Students engage in practical experience in leadership and administration. Students work under the direction of a graduate faculty member/practicum supervisor and host administrator(s) to fulfill the requirements of a Practicum plan. Students must enroll for 3 credits in their first semester and at least 1 credit/semester of continuous enrollment until the Practicum is completed. May be repeated for a maximum of 12 credits. Graded S/U. PREREQ: Permission of instructor

EDLH 7738 Assessment and Accountability in Higher Education: 3 semester hours.
Key issues, strategies and challenges in developing assessment programs at the institutional, departmental and program levels that address national, state and accreditation mandates for accountability in higher education

EDLH 7739 Higher Education Leadership Strategic and Enrollment Planning Governance Institutional Research: 3 semester hours.
Study of leadership strategies for strategic and enrollment planning, application of institutional research, and negotiation of complex on- and off-campus governance systems required for successful higher education leadership

EDLH 7748 Independent Problems in Higher Education Administration: 1-3 semester hour.
Individual field work and/or library research under staff guidance on specific higher education administration problems of interest to doctoral students in the Higher Education Administration program. May be repeated. PREREQ: Permission of instructor

School Psychology Courses

SCPY 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. Must be graded S/U

SCPY 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

SCPY 6614 Diagnostic Evaluation of Learning Difficulties: 3 semester hours.
Investigation of theoretical and applied assessment of intervention measures suitable for remediating learning problems

SCPY 6615 Advanced Child Psychology: 3 semester hours.
In-depth study of the principles of educational psychology and child development. Emphasis will be placed on applying research-based practices from the science of educational psychology to solve problems found in schools and other social settings. PREREQ: EDUC 6602

SCPY 6616 Psychological Assessment: 3 semester hours.
Psychometric assessment to determine eligibility of students and provide diagnostic information to develop interventions and assess their effects. Includes writing of integrated reports that address various exceptionalities. PREREQ: SCPY 6614 and SCPY 6619

SCPY 6619 Individual Intelligence Testing: 3 semester hours.
Supervised practice in administering, scoring, and interpreting the results of individual intelligence tests. Each section limited to 6 students

SCPY 6625 Specialist Paper: 1-3 semester hour.
An applied research paper in school psychology, written in format appropriate for publication consideration by a peer-reviewed journal. A candidate is allowed to take 1 to 3 credits each semester but has to take at least 1 credit each semester until his or her paper is completed as approved by the instructor. May be repeated. PREREQ: EDUC 6601

SCPY 6657 Legal and Ethical Issues in School Psychology: 2 semester hours.
This course is intended to address a variety of professional issues, including legal and ethical principles, professional standards of practice, and ethical decision making within the context of the unique professional practice of school psychology. Students will become familiar with the ethical principles of the American Psychological Association and the National Association of School Psychologists and learn to apply these principles to specific areas of school psychology practice such as assessment, intervention, and research

SCPY 6658 Independent Problems: 1-3 semester hour.
Individual work under staff guidance. Field and/or library research on specific educational problems. Experience in research composition. May be repeated up to 6 credits

SCPY 6659 Multicultural Issues in School Psychology: 2 semester hours.
This course is designed to examine cultural, socioeconomic, and ethnic variables unique to the practice of school psychology in the public school setting. The content of this course will include applying knowledge of cultural, socioeconomic, and ethnic differences to school psychology assessment, intervention, counseling, and English language acquisition issues
**SCPY 6660 Seminar in School Psychology:** 3 semester hours.
Introduce students to the field of school psychology through guest speakers, literature, and discussion. Focus on assessment, diagnosis, professional ethics, historical development, and school law

**SCPY 6662 Consultation in Schools:** 3 semester hours.
Provides theoretical and practical experience in the development, implementation, and evaluation of a variety of consulting strategies suitable for working with teachers, administrators, community agencies, and parents. PREREQ: SCPY 6665

**SCPY 6663 Clinical and Diagnostic Interviewing in Schools:** 3 semester hours.
This is an advanced clinical interview skills course in which knowledge and training are obtained in how to conduct clinical interviews with children and families in educational settings. Special consideration is given to conducting Mental Health Intake Interviews, Mental Status Examinations, Suicide Assessments, Targeted Violence Assessments, and Interviewing Special Populations. PREREQ: SCPY 6615, 6616, 6665, or Permission of Instructor

**SCPY 6664 Neurocognition and Learning:** 3 semester hours.
This course will increase skills of school psychologists and educators in applying neurocognitive research to psychoeducational adjustment in schools. Content will emphasize intervention, assessment, instruction, consultation, individual differences in emotionality, attention, memory, and problem solving. PREREQ: EDUC 6602

**SCPY 6665 Clinical School Psychology:** 3 semester hours.
This course explores the clinical elements of school-based mental health services provided by school psychologists in public school settings. The educational manifestations of childhood and adolescent psychopathology are examined within the context of the DSM-IV-TR. Special emphasis is given to understanding the complexities of childhood mental illness and its unique educational impact on children and adolescents. COREQ: SCPY 6667

**SCPY 6668 Practicum Introduction to School Psychology Learning Disabilities and Special Education:** 3 semester hours.
Supervised experience in educational, intelligence, and personality testing as well as diagnostic evaluation of learning difficulties and report writing. Special emphasis on the interpretation of test results to teachers, counselors, and administrative personnel. A combination of fifty hours of experience and supervision equals one hour of academic credit. May be repeated. PREREQ: SCPY 6619 and permission of instructor. COREQ: SCPY 6614

**SCPY 6669 Advanced Practicum in School Psychology:** 1-12 semester hour.
A combination of fifty hours of experience and supervision equals one hour of academic credit. The weekly supervision seminars provide the candidate with supplementary guidance, support, and educational information regarding professional issues of school psychology such as techniques of providing in-service training and integration of technology into student learning through case discussion, supplemental readings, direct instruction, and guest speakers. May be repeated. PREREQ: SCPY 6668 and permission of instructor

**SCPY 6670 Practicum in School Psychology:** 1-2 semester hour.
Second-year students will process school and community-based referrals. Fifty (50) hours contact time per credit. This involves a collaborative problem-solving approach with school-based teams to gain experience with pre-referral activities, evaluation, and intervention plans. May be repeated. COREQ: SCPY 6665

**SCPY 6672 Problem Solving Intervention in Schools:** 3 semester hours.
This course will provide a foundation in skills, knowledge and practice that reflects a "Problem-Solving Intervention" (PSI) approach to assessment and intervention implementation in schools

**SCPY 6673 Response to Intervention in Schools:** 3 semester hours.
This course integrates both the theory and practical application of "Response to Intervention" (RTI) used for development and implementation of effective interventions pertaining to academic and behavioral "problems" in school settings

**SCPY 6674 Cognitive-Behavioral Intervention in Schools:** 3 semester hours.
This course provides theoretical and practical experience in the development, implementation, and evaluation of a variety of cognitive-behavioral interventions when working with teachers, administrators, community agencies, and parents. This course examines both "intervention" and "consultation" principles and strategies. The primary focus is the scientific research and application of cognitive-behavioral interventions to achieve improved performance and success of students in schools

**SCPY 6699 Experimental Course:** 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**SCPY 7759 Ed.S Internship:** 1-9 semester hour.
Placement in a post-master's degree counseling, school psychology, or special education setting. A combination of fifty hours of experience and supervision equals one hour of academic credit. May be repeated. PREREQ: Completion of all program course work

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**Sport Science and Physical Education**

Chair and Associate Professor: Appleby

Professor: Lyons, Lester

Associate Professor: Fitzpatrick

Assistant Professors: Braun, Faure, Gauthier, Moffit

The Department of Sport Science and Physical Education offers the Master of Physical Education/Athletic Administration degree at Idaho State University and through the Idaho State University-Boise State Cooperative Program and the MSAT program at the Pocatello campus.

**Master of Physical Education/Athletic Administration**

Administration is aligned with 2 sets of standards: The Idaho State University College of Education Standards for Advanced Professionals (described previously), and the National Association for Sport and Physical Education (NASPE) and the North American Society for Sport Management (NASSM) Standards.

NASPE-NASSM Content Standards: The NASPE-NASSM standards for Master’s Degree Programs in Sport Management address eight specific areas that include the following: Management, Leadership and Organization in Sport; Research in Sport; Legal Aspects of Sport; Marketing in Sport; Sport Business in the Social Context; Financial Management in Sport; Ethics in Sport Management; and Field Experience in Sport Management.

**Master of Science in Athletic Training**

The Master of Science in Athletic Training (MSAT) program is a professional degree designed to develop competent athletic training students who qualify to sit for the Board of Certification exam. The program has completed the self-study
and site visit for the Commission on Accreditation of Athletic Training Education (CAATE) accreditation and will know its status in June, 2015.

The overall objectives of the MSAT program are to teach the students in the following domains: Injury/Illness Prevention and Wellness Protection; Clinical Evaluation and Diagnosis; Immediate and Emergency Care; Treatment and Rehabilitation; and Organizational and Professional Health and Well-Being.

**Master of Physical Education/Athletic Administration**

**Admission Requirements**

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition, applicants for the Master of Physical Education/Athletic Administration degree must meet all college requirements for admission and retention. Individuals applying for admission to the Master of Physical Education/Athletic Administration program will be reviewed using the following criteria. Preference will be given to applicants who meet or exceed these criteria.

- Bachelor’s degree from a regionally accredited college or university in the United States or its equivalent from a school in another country.
- Grade point average of 3.0 or higher for all upper division credits taken at the undergraduate level.

In addition, the Department of Sport Science and Physical Education requires that the applicant shall have had the necessary background in tests and measurements, and a knowledge of statistical procedures. Both a thesis and non-thesis option are available.

**General Requirements**

Students must complete a minimum of 33 semester credit hours for the Master of Physical Education/Athletic Administration degree. Students completing a thesis will orally defend the thesis, but will not complete written examinations. Students not completing a thesis will be required to pass both a written examination and an oral examination.

All students must document professional experience in an athletic setting either by prior athletic administrative experience (minimum of one year) or by completing an approved internship for credit while completing the MPE/AA program.

**Course Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 6605</td>
<td>Leadership and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PE 6615</td>
<td>Philosophy and Principles of Athletics in Education</td>
<td>3</td>
</tr>
<tr>
<td>PE 6631</td>
<td>Athletics and the Law</td>
<td>3</td>
</tr>
<tr>
<td>PE 6635</td>
<td>Management Aspects of Athletics</td>
<td>3</td>
</tr>
<tr>
<td>PE 6640</td>
<td>Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>PE 6649</td>
<td>Issues in PED and Athletic Administration</td>
<td>3</td>
</tr>
<tr>
<td>PE 6655</td>
<td>Internship</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Selected one of the following options: 15

**Thesis Option**

- PE 6650 Thesis
- Approved Electives

**Non-Thesis Option**

- PE 6610 Advanced Sport Psychology
- PE 6625 Advanced Sport Marketing
- Approved Electives

**Total Hours** 34-36

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**Master of Science in Athletic Training**

**Admission Requirements**

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition, applicants for the Master of Science in Athletic Training degree must meet all college requirements for admission and retention. This is a limited enrollment program. Individuals applying for admission to the Master of Science in Athletic Training program will be reviewed using the following criteria:

1. Application and acceptance by ISU Graduate School
2. Cumulative G.P.A. (minimum of 2.75)
3. GRE/MAT score guidelines posted in the SSPE Graduate handbook
4. Successful completion of the following required prerequisite courses with a grade of “C” or better in each course:
   a. Anatomy and Physiology (1 year equivalent)
   b. Care and Prevention of Athletic Injuries (or equivalent)
   c. Neuroscience (Recommended)
   d. General Nutrition or Sports Nutrition
   e. Exercise Physiology
   f. Biomechanics
   g. Sport Psychology (or other approved upper division Psychology course)
5. Evidence of current First Aid/CPR/AED for Health Care Provider certifications
6. An essay describing applicants interest in and goals related to Athletic Training
7. Two letters of Recommendation (one must be from a faculty member)
8. Personal Interview

Preference will be given to applicants who meet or exceed these criteria. Applicants must undergo a criminal background check and have current immunizations, listed in handbook. Criminal background checks must be done through ISU Public Safety at the applicant’s expense. Conviction of a felony or other serious offense will likely result in denial of placement for the clinical assignments, and consequently affect the student’s standing in the program.

Additional program information is available at www.isu.edu/sspe website.

**General Requirements**

Students must complete a minimum of 48 semester credit hours for the Master of Science in Athletic Training degree. Students completing the degree will be required to complete a two-year sequence of courses which will include a 5-course sequence of clinical education and culminate in a 3-credit Capstone project that will challenge the student to summarize their learning experiences through the presentation and defense of a case study before an examining committee.

Upon Graduating, ISU’s MSAT students will be eligible for national board examination (administered nationally by the Board of Certification- BOC). Only those students graduating from a CAATE accredited program are eligible to take the BOC exam.

**Course Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT 6600</td>
<td>Foundations of Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>AT 6602</td>
<td>General Medical Assessment</td>
<td>3</td>
</tr>
<tr>
<td>AT 6604</td>
<td>Physical Assessment of the Lower Extremities</td>
<td>3</td>
</tr>
<tr>
<td>AT 6606</td>
<td>Traumatic Brain Injury and Neurological Assessment</td>
<td>3</td>
</tr>
<tr>
<td>AT 6608</td>
<td>Physical Assessment of the Upper Extremities</td>
<td>3</td>
</tr>
<tr>
<td>AT 6610</td>
<td>Pathophysiology and Therapeutic Modalities</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>AT 6612</td>
<td>Conditioning and Therapeutic Exercise</td>
<td>3</td>
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<tr>
<td>AT 6614</td>
<td>Professional Issues in Athletic Training</td>
<td>3</td>
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<tr>
<td>AT 6640</td>
<td>Research Methods in Athletic Training</td>
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</tr>
<tr>
<td>AT 6645</td>
<td>Organization and Administration of Athletic Training</td>
<td>3</td>
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<td>AT 6651</td>
<td>Capstone Assessment</td>
<td>3</td>
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<td>AT 6661</td>
<td>Clinical Experiences in Athletic Training I</td>
<td>3</td>
</tr>
<tr>
<td>AT 6662</td>
<td>Clinical Experiences in Athletic Training II</td>
<td>3</td>
</tr>
<tr>
<td>AT 6663</td>
<td>Clinical Experiences in Athletic Training III</td>
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<td>AT 6664</td>
<td>Clinical Experiences in Athletic Training IV</td>
<td>3</td>
</tr>
<tr>
<td>AT 6665</td>
<td>Clinical Experiences in Athletic Training V</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 48

### Athletic Training Courses

- **AT 6600 Foundations of Athletic Training**: 3 semester hours. Survey of the profession of Athletic Training. Injury prevention, assessment, treatment, taping, and rehabilitation of common athletic injuries will be presented. Lab included
- **AT 6602 General Medical Assessment**: 3 semester hours. This course addresses current medical issues that pertain to athletic training and the physically active. Content includes: sports pharmacology, physiological considerations, common illnesses and special concerns. Lab included
- **AT 6604 Physical Assessment of the Lower Extremities**: 3 semester hours. Intense, in-depth study of the lower extremities including: physical examination, injury recognition, treatment, taping, bracing, and foundations of rehabilitation
- **AT 6606 Traumatic Brain Injury and Neurological Assessment**: 3 semester hours. Comprehensive examination of sport-related traumatic brain injury. Includes neurological assessment and rehabilitation methods. Lab included
- **AT 6608 Physical Assessment of the Upper Extremities**: 3 semester hours. Intense, in-depth study of the trunk, head, face, and upper extremities including: physical examinations, injury recognition, emergency treatment, taping, bracing, and foundations of rehabilitation. Lab included
- **AT 6610 Pathophysiology and Therapeutic Modalities**: 3 semester hours. Analysis of the physiological response to injury and the effects of therapeutic modalities on athletic injuries
- **AT 6612 Conditioning and Therapeutic Exercise**: 3 semester hours. Development of proficiency in the theory, design, and implementation of conditioning programs and instruction on the effective application of therapeutic exercise in order to achieve symptom-free movement and function. Content includes basic principles of exercise, therapeutic effects of exercise, functional evaluation of performance, goniometric measurements, and manual muscle testing. Lab included
- **AT 6614 Professional Issues in Athletic Training**: 3 semester hours. This course is designed to expose students to various professional issues involved with athletic training in a topical format in order to develop a holistic understanding of the profession. Content includes topics such as psychosocial issues, cultural competence in healthcare delivery, performance enhancement, job seeking, exam preparation, and continuing professional development
- **AT 6640 Research Methods in Athletic Training**: 3 semester hours. Interpretation of statistical procedures and research designs commonly used in athletic training research. Prepares students to conduct research projects related to the field of athletic training. PREREQ: Permission of instructor

- **AT 6645 Organization and Administration of Athletic Training**: 3 semester hours. This course is designed to expose students to the organization and administration concepts of athletic training. Content includes management, leadership, legalities, historical perspectives, motivation, and technology
- **AT 6651 Capstone Assessment**: 1-3 semester hour. There are three semesters of AT 6651 Capstone Assessment courses. Together they represent a comprehensive assessment of learning over time of the students. Capstone Assessment in Spring I requires an oral presentation of a case study. Capstone Assessment in Fall II requires an oral and written presentation of a Grand Rounds topic. Capstone Assessment in Spring II requires an objective written exam and a final oral practical exam before an examining committee. Students must take this course in each of the last 3 semesters of the program (for a total of 3 credits) in order to graduate

- **AT 6661 Clinical Experiences in Athletic Training I**: 3 semester hours. Clinical experiences in athletic training
- **AT 6662 Clinical Experiences in Athletic Training II**: 3 semester hours. Clinical experiences in athletic training
- **AT 6663 Clinical Experiences in Athletic Training III**: 3 semester hours. Clinical experiences in athletic training
- **AT 6664 Clinical Experiences in Athletic Training IV**: 3 semester hours. Clinical experiences in athletic training
- **AT 6665 Clinical Experiences in Athletic Training V**: 3 semester hours. Clinical experiences in athletic training

### Physical Edu Courses

- **PE 5513 Sport in Cinema**: 3 semester hours. Investigate sport, and the treatment of sport, through the medium of modern cinema. Sport will be analyzed from the sociological, psychological, moral and ethical perspective of the filmmakers. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus
- **PE 5527 Personal Trainer Certification**: 3 semester hours. Theoretical knowledge and practical skills in preparation for national certification exam in personal training. Guidelines for instructing safe, effective and purposeful exercise; essentials for the client-trainer relationship, conducting health and fitness assessments, and designing and implementing appropriate exercise programming
- **PE 5565 Organization and Administration of Intramural Sports**: 3 semester hours. Study of various methods of organizing and administering intramural sports programs on the junior high school, high school, and college levels
- **PE 5573 Facility Planning and Designing**: 3 semester hours. An investigation of the various components, principles, and fundamental practices involved in facility planning and design for physical education, athletics, and recreation. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus
- **PE 5580 Coaching Problems**: 1-3 semester hour. Athletic control, eligibility, new coaching techniques, finances, safety measures, public relations, duties of coaches, managers, and officials. May be repeated for up to 4 credits. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus
- **PE 5581 Coaching Clinic**: 1 semester hour. ISU is a sponsor of the annual Idaho Coaches Association Clinic held during the first week of August. Instruction offered in football, basketball, and other sports by coaches of national reputation. May not be applied to degree programs. May be repeated
PE 5585 Independent Problems in Physical Education: 1-3 semester hour. 
Individual work under staff guidance. Field and/or library research on specific physical education problems. May be repeated up to 6 credits

PE 5591 Physical Education Workshop: 1-3 semester hour.
A critical analysis of one or more areas of physical education. Limited enrollment. May be repeated up to six credits

PE 5594 Adapted Physical Activity: 3 semester hours.
History, philosophy, and the teaching/learning process in providing adapted physical activity in schools and community-based settings. Includes clinical experiences. PREREQ: BIOL 3301 or PE 2243; PE 3300 and PE 3362

PE 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. Must be graded S/U

PE 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

PE 6605 Leadership and Administration: 3 semester hours.
Development of leadership skills and the dynamics of group process relative to effective interpersonal relationship with special emphasis on Physical Education and Athletic programs and personnel needs

PE 6610 Advanced Sport Psychology: 3 semester hours.
Designed to define, critique, and apply critical perspectives of sport and exercise psychology, including aggression theories, violence, cohesion, and social facilitation. Aspects of coaching theory and its application are included

PE 6612 Advanced Sociology of Sport: 3 semester hours.
Social aspects of sport and society, with emphasis on the relationship between sport, culture, and ideology

PE 6615 Philosophy and Principles of Athletics in Education: 3 semester hours.
The role of athletics in education, the function and organization of leagues and conferences of coaches, certification of coaches, ethics, and public relations

PE 6620 Curriculum and Supervision: 3 semester hours.
Consideration of the physical education curriculum in public schools and in colleges and universities. Recent developments and current trends that influence the curriculum and supervision policies. Observation techniques, standards in judging instruction, the supervisory conference, cooperative supervision, basic foundation of curriculum construction, and lesson planning

PE 6622 Survey of Professional Literature: 3 semester hours.
Identification and investigation of professional literature and its application to current and future directions of the field. Extensive reading and formal writing required. May be repeated

PE 6625 Advanced Sport Marketing: 3 semester hours.
Introduction to the basic nature of marketing in sport and athletics as it relates to consumer behavior, research in sport marketing, defining the sport product, market segmentation, pricing, promotion, and public relations, and the legal aspects of sport/athletics

PE 6631 Athletics and the Law: 3 semester hours.
A study of the administrative role relating to the regulation of athletic competition and athletic programs. A review of significant court cases dealing with sports law, with application to the school setting

PE 6635 Management Aspects of Athletics: 3 semester hours.
Factors involved in the conduct of athletic events such as contracts, scheduling, travel, game management, crowd control, and the legal implications of athletics

PE 6640 Research and Writing: 3 semester hours.
Analysis and interpretation of the basic principles of research and writing as they relate to physical education, athletics and allied fields of endeavor. Integration of research and writing procedures likely to have the greatest influence on programs and practices relating to the administration of P.E.D. programs

PE 6648 Problems: 1-3 semester hour.
Individual and group study of problems in the areas of physical education and recreation. May be repeated to 6 hours credit

PE 6649 Issues in PED and Athletic Administration: 3 semester hours.
A study of the current issues applicable to the administration of PED and athletics. Opportunities may be afforded for study within specialized areas. May be repeated up to 6 hours with departmental permission

PE 6650 Thesis: 1-6 semester hour.
Thesis. 1-6 credits. May be repeated. Graded S/U

PE 6651 Masters Project in PED and Athletics: 1-3 semester hour.
Master’s Project. Maybe repeated. Graded S/U

PE 6655 Internship: 1-3 semester hour.
Administration, supervision and operation of a P.E.D. or Athletic Program. Students work under the direction of a graduate faculty member and practicing administrator. May be repeated up to 6 credits. May be graded S/U

PE 6658 Athletics in the West: 3 semester hours.
Field-based review of programs and topics related to physical education and athletic administration, including: tours of facilities in schools, colleges, and professional athletics; lessons and seminars with practitioners and scholars

PE 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Teaching and Educational Studies

Interim Chair & Professor: Ray
Professors: Ray, Sanger, Squires
Assistant Professors: Bennett, Ntuli
Lecturers: Lin

Master of Education in Elementary Education

The 30-credit minimum non-thesis master’s degree in Elementary Education is a combination of pedagogy and content; designed for the elementary school teacher. This degree will permit the practicing teacher to acquire greater depth in STEM (or single subject mathematics, geology, physical science, or biology), ESL/TESOL, foreign language, English/language arts, history/social science, Instructional Technology, or another Idaho SBOE-approved elementary certification or endorsement area.
1. The advanced elementary education professional, through the core curriculum and other course work, is expected to meet the core standards for advanced professionals.
2. The advanced elementary education professional is expected to meet Idaho Core Teacher Standards and National Board for Professional Teaching Standards Core Propositions.
3. The advanced elementary education professional is expected to extend their subject matter depth in STEM, (or single subject mathematics, geology, physical science, or biology), ESL/TESOL, foreign language, English/language arts, history/social science, or another Idaho SBOE-approved elementary subject matter content certification or endorsement area.
4. The advanced elementary education professional is expected to utilize the knowledge of subject area concentration in specific applications and assessments within the educational methods curriculum.

**Master of Education in Secondary Education**

The 30-credit minimum non-thesis master’s degree in Secondary Education is a combination of pedagogy and content; designed for the secondary school teacher. This degree will permit the practicing teacher to acquire greater depth in STEM, (or single subject mathematics, geology, physical science, or biology), ESL/TESOL, foreign language, English/language arts, history/social science, Literacy, Instructional Technology, or another Idaho SBOE-approved secondary subject matter content certification or endorsement area.

1. The advanced secondary education professional, through the core curriculum and other course work, is expected to meet the core standards for advanced professionals.
2. The advanced secondary education professional is expected to meet Idaho Core Teacher Standards and National Board for Professional Teaching Standards Core Propositions.
3. The advanced secondary education professional is expected to extend their subject matter depth in STEM (or single subject mathematics, geology, physical science, or biology), ESL/TESOL, foreign language, English/language arts, history/social science, Instructional Technology, or another Idaho SBOE-approved secondary subject matter content certification or endorsement area.
4. The advanced secondary education professional is expected to utilize the knowledge of subject area concentration in specific applications and assessments within the educational methods curriculum.

**Master of Education in K-12 Education**

**Music Education 36 Credits**

The Master of Education in Music Education is a degree program housed in the College of Education and presented in collaboration with the Department of Music. For admission into this program, apply first to the College of Education Department of Educational Foundations. The Master of Education in Music Education is designed to strengthen the student’s understanding, knowledge, and skills in three major areas — Core Professional Studies, Specialty Studies, and Integrative Field Research studies — as they relate to music education. The program 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.

**Master of Education in Special Education**

1. The special educator will understand the field as an evolving and changing discipline.
2. The special educator will know and demonstrate respect for his/her students first as unique human beings and contributing members of the community.
3. The special educator will understand the appropriate use of various types of assessments.
4. The special educator will adapt general curriculum by using a variety of instructional strategies and positive behavior supports.
5. The special educator will collaborate with colleagues, families, and agencies to develop inclusive communities.

The Master of Education in Human Exceptionality is designed to strengthen the student’s understandings, knowledge, and skills in three major areas – Professional Studies, Specialty Studies, and Integrative Field Research Studies – as they relate to human exceptionality. The student may select one of two options for the Master’s degree in Human Exceptionality:

- Master of Education in Special Education
- Master of Education in School Psychology

**Master of Education in Early Childhood Education**

**Family Studies**

The goal of the Early Childhood Education Program is to prepare professionals who have the necessary knowledge, dispositions, and abilities to:

1. Enhance learning and development of young children, with and without disabilities, between the ages of birth and third grade.
2. Establish collaborative relationships with families, and other professionals in ways that produce positive outcomes for young children.
3. View their own professional development as a lifelong endeavor.

**Master of Education with Literacy Emphasis**

1. The literacy specialist understands the related nature of reading, writing, listening, speaking, and viewing and that literacy is a process of constructing meanings. These meanings begin with personal knowledge.
2. The literacy specialist understands the importance of building on strengths of individual learners rather than emphasizing needs.
3. The literacy specialist is able to support and expand student expression in speaking, writing, and creative art forms across subject matter areas.
4. The literacy specialist is able to conduct assessment that involves multiple indicators of student progress and develop an instructional plan based on these indicators.

The Master of Education with Literacy Emphasis is designed to strengthen the student’s understanding, knowledge, and skills in three major areas – Core Professional Studies, Specialty Studies, and Integrative Field Research Studies – as they relate to literacy education.

**Master of Education in Deaf Education**

The Deaf Education program has an outstanding history of identifying, educating, and placing highly qualified individuals in educational programs for Deaf and hard of hearing children and youth in Idaho and neighboring states. These educators have been instrumental in helping inter-mountain states expand the delivery of quality educational services to this school-age population in all educational settings. The Master of Education in Deaf Education is designed to strengthen the student’s understanding, knowledge, and skills in four areas – Core Professional Studies, Specialty Studies, Integrated Field Research Studies, and Electives – as they relate to the education of children and youth who are Deaf and hard of hearing. This program is in alignment with the College of Education’s other graduate programs in that it includes research components (i.e., Core Professional Studies and Integrated Field Research Studies), a teacher
certification component (i.e., Specialty Studies), and a supporting area (i.e., Electives) that augment a student’s undergraduate training.

Master of Education in Elementary Education

Admission Requirements

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition, applicants for the Master of Education in Elementary Education must meet all college requirements for admission and retention. Those include previous teaching experience or current certification to teach in Idaho or another state.

General Requirements

Educational Core (minimum 9 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6601</td>
<td>Research and Writing</td>
<td>3</td>
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<tr>
<td>EDUC 6602</td>
<td>Theories of Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6610</td>
<td>Applied Educational Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Educational Pedagogy (minimum 6 credits)

Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLT 6616</td>
<td>Integration of Technology into School Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6622</td>
<td>Educational Assessment and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6630</td>
<td>Advanced Elementary Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6641</td>
<td>Advanced Studies in K-12 Curriculum</td>
<td>3</td>
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Or another advisor approved EDUC elective.

Capstone Course (3 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6670</td>
<td>Seminar in Elementary Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Content Area (12 credits)

Applicants are instructed to see their education advisor for an outline of the 12 hours of approved electives from among graduate-level courses in STEM (or single subject mathematics, geology, physical science, or biology), ESL/ESL, foreign language, English/language arts, history/social science, or another subject matter content certification or endorsement area. NOTE: For the STEM content designation to be earned, additional content hours across the STEM disciplines is required. Check with academic advisor for approved STEM courses.

Total Hours: 30

NOTE: At least 15 credits of 6600-level course work must be completed for this degree program.

Master of Education in Secondary Education

Admission Requirements

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition, applicants for the Master of Education in Secondary Education must meet all college requirements for admission and retention. Those include previous teaching experience and/or current certification to teach in Idaho or another US state.

General Requirements

NOTE: At least 15 credits of 6600-level course work must be completed for this degree program

Master of Education in K-12 Education

Admission Requirements

The student must apply to and meet all criteria for admission to the Graduate School. In addition, applicants for the Master of Education in K-12 Education must meet all college requirements for admission and retention.

Individuals applying for admission to the Master of Education in Music Education, must meet the following admission requirements:

- Bachelor’s degree in music from a regionally accredited college or university.
- It is expected that students will meet basic requirements for public school certification.
- Completion of entrance examinations in music history and music theory. Students whose examination indicate deficiencies will be granted Classified (w/PR) Status. Any course used to remove deficiencies does not count toward the degree. When deficiencies have been removed, the student may seek Classified Status.

General Requirements

Students complete a minimum of 36 semester credit hours for the Master’s degree. Students seeking Idaho Certification in the area of their training must meet any requirements of the State Board of Education for certification. It is recommended that students have professional experience in an education context.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6601</td>
<td>Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6602</td>
<td>Theories of Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 6610</td>
<td>Applied Educational Statistics</td>
<td>3</td>
</tr>
<tr>
<td>EDLT 6616</td>
<td>Integration of Technology into School Curriculum</td>
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</table>

Pedagogy and Content (20 credits)

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>MUSC 6601</td>
<td>Foundations in Music Education</td>
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<tr>
<td>MUSC 6671</td>
<td>Music Education Seminar</td>
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<tr>
<td>MUSC 5562</td>
<td>Studies in Music Curricula</td>
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<tr>
<td>MUSC 5563</td>
<td>Psychology of Music</td>
<td>3</td>
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<tr>
<td>Music History Elective</td>
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<tr>
<td>Music Theory Elective</td>
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</tr>
<tr>
<td>MUSC 6650</td>
<td>Thesis Project (or additional Music Electives)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 32

Master of Education with Literacy Emphasis

Admission Requirements

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition, students for the Master of Education with Literacy Emphasis must meet all college requirements for admission and retention.

Individuals applying for admission to the Master of Education with Literacy Emphasis must meet the following admission requirements:

- Bachelor’s degree from a college or university accredited in the United States or its equivalent from a school in another country.
- Grade point average of 3.0 or higher for all upper division credits taken at the undergraduate level.
General Requirements

Candidates must complete a minimum of 33 semester credit hours for the Master of Education with Literacy Emphasis. They must complete EDUC 4419 Developmental Literacy or the Idaho Comprehensive Literacy Assessment. All candidates completing a thesis will orally defend the thesis, but will not complete written comprehensive examinations. All candidates not completing a thesis will be required to pass both a written comprehensive examination and an oral examination.

Candidates seeking Idaho certification in the area of their training must meet any requirements of the State Board of Education for certification. It is recommended that students pursuing the Master of Education with Literacy Emphasis have professional experience in an educational context.

Required Core Professional Studies
EDUC 6601 Research and Writing 3
EDUC 6602 Theories of Learning 3
EDUC 6610 Applied Educational Statistics 3

Specialty Studies
EDUC 5591 Seminar 3
EDUC 5524 Assessing Literacy Abilities 3
EDUC 5526 Remediation of Literacy Problems 3
EDUC 6632 Psychology of Literacy 3
EDUC 6633 Language Literacy and Neurology 3
EDUC 6634 Literacy Multicultural Views 3
EDUC 6635 Clinical Methods in Literacy 3

Integrative Field Research Studies
EDUC 6650 Thesis 6
or EDUC 6651 Field Project or Case Study in Education 3
& EDUC 6652 and Field Practicum in Education 3

Total Hours 36

Educational Specialist in School Psychology or Special Education

Admission Requirements
Candidates for the Educational Specialist in School Psychology or Special Education degree must meet all college and university requirements for admission and retention. The student must hold a master’s degree in the area of the chosen Ed.S. major. Master’s degree majors in a closely related field may be approved upon recommendation of the selection committee.

General Requirements
The student must complete 64 credits in Special Education or 66 credits in School Psychology, including the master’s degree and a specialist paper. All post-master’s degree course work must be taken from members of the Idaho State University graduate faculty or be approved in advance by the graduate faculty. A minimum grade point average of 3.0 (B) is required over all course work taken in the Ed.S. program. An oral examination covering the specialist paper, portfolio, and/or relevant topics is required.

Time Requirement
All requirements for the Ed.S. must be completed within a period of five years from the date of completion of the first post-master’s degree course to be applied toward the degree.

Specific Requirements: School Psychology Major
The Ed.S. in School Psychology is designed to be consistent with the minimal entry-level requirements in the field of school psychology as presented by the National Association of School Psychologists. A master’s degree as a school psychological examiner or its equivalent is required.

The Ed.S. is viewed as a practitioner’s degree and will focus on applied activities.

Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SCPY 6615</td>
<td>Advanced Child Psychology</td>
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<tr>
<td>SCPY 6616</td>
<td>Psychological Assessment</td>
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<td>SCPY 6652</td>
<td>Specialist Paper 1-3</td>
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<tr>
<td>SCPY 6662</td>
<td>Consultation in Schools 3</td>
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<tr>
<td>SCPY 6663</td>
<td>Clinical and Diagnostic Interviewing in Schools 3</td>
<td></td>
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<tr>
<td>SCPY 6664</td>
<td>Neurocognition and Learning 3</td>
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<td>SCPY 6665</td>
<td>Clinical School Psychology 3</td>
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<tr>
<td>SCPY 6669</td>
<td>Advanced Practicum in School Psychology 6</td>
<td></td>
</tr>
<tr>
<td>SCPY 7759</td>
<td>Ed.S Internship 6</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 31-33

Special Education Major

The following course work is required:

1. A minimum of 21 credits in special education course work at or above the 6600 level (including administration of special education), of which 6 credits are in the supervision of clinical practicum in special education and 3 credits are in internship in special education.
2. Behavioral sciences and/or education/school psychology, 9 credits.

The number of credits will be determined by the advisor and student.

Master of Education in Special Education

Admission Requirements
Applicants for the Master of Education in Special Education must apply to, and meet all criteria for, admission to the Graduate School and all college requirements for admission and retention.

Individuals applying for admission to the Master of Education program in Special Education must meet the following admission requirements:

• Bachelor’s degree from a regionally accredited college or university in the United States, or its equivalent from a school in another country.
• Grade point average of 3.0 or higher for all upper division credits taken at the undergraduate level.

General Requirements
Students completing a Master of Education in Special Education must complete both a written comprehensive examination and an oral examination.

Professional Studies Core
EDUC 6601 Research and Writing 3
EDUC 6602 Theories of Learning 3
EDUC 6610 Applied Educational Statistics 3

Additional Requirements for the Special Education Option
Students must either have an undergraduate special education major or a 14-credit undergraduate core of special education course work including:

- SPED 3330 The Exceptional Child
- SPED 3334 Classroom Behavior Management
- SPED 5523 Designing Instruction
- SPED 5524 Assessment Procedures in Special Education
- SPED 5527 Precision Teaching

These courses will not be counted as part of the master’s degree program.

Persons seeking initial certification must also complete:

- SPED 5529 Strategies Severe Disabilities
- SPED 5532 Direct Instruction Systems
- SPED 5538 Policies and Procedures in Special Education
- SPED 5546 Secondary Special Education

Persons must also complete the Idaho Technology Portfolio assessment.

SCPY 6614 Diagnostic Evaluation of Learning Difficulties 3
SPED 6630 Professional Development in Special Education 2
SPED 6638 Practicum in Special Education 6
SPED 6662 Consultation in Schools 2

Elective credits totaling a minimum of 33 semester credit hours for the Master’s degree must be taken from relevant graduate-level courses, with approval of student’s major advisor.

**Additional Requirements for the School Psychology Option**

**Specialty Studies in Psychological Examiner**

- SCPY 6619 Individual Intelligence Testing 3
- SCPY 6657 Legal and Ethical Issues in School Psychology 2
- SCPY 6659 Multicultural Issues in School Psychology 2
- SCPY 6660 Seminar in School Psychology 3
- SCPY 6672 Problem Solving Intervention in Schools 3
- SCPY 6673 Response to Intervention in Schools 3
- SCPY 6682 Cognitive-Behavioral Intervention in Schools 3

**Integrative Field Research Studies**

- SCPY 6668 Practicum Introduction to School Psychology Learning Disabilities and Special Education 3

Total Hours 44

The deadline for submission of applications is July 1. Applications will be reviewed and degree-seeking students will continue to be admitted until program capacity is reached.

**Master of Education in Early Childhood Education**

**Admission Requirements**

The candidate must apply to, and meet all criteria for, admission to the Graduate School. In addition, applicants for the Master of Education in Early Childhood Education must meet all college requirements for admission and retention.

**General Requirements**

The Master of Education in Early Childhood Education is designed to strengthen the student’s understanding, knowledge, and skills in three major areas – Core Professional Studies, Integrative Field Research Studies, and Specialty Studies – as they relate to Child and Family Studies.

- Early Childhood Education

Candidates enter the program after completion of the Bachelor’s degree. All candidates completing a Master of Education in Early Childhood Education must complete a written comprehensive examination and an oral examination; a case study/project OR a case study/project/internship combination, OR a thesis.

**Required Core Professional Studies**

- EDUC 6601 Research and Writing 3
- EDUC 6602 Theories of Learning 3
- EDUC 6610 Applied Educational Statistics 3

**Integrative Field Research Studies**

Select one of the following: 6

- CFS 6647 Internship in Child and Family Studies
- & CFS 6669 and Case Study or Project in Child and Family
- CFS 6669 Case Study or Project in Child and Family
- EDUC 6650 Thesis

**Option** 15-18

**Additional Requirements for Early Childhood Education and Intervention**

- CFS 5501 Foundations of Early Childhood Education Intervention
- CFS 6621 Learning and Development in Early Childhood Education
- CFS 6622 Curriculum in Early Childhood Education
- CFS 6642 Assessment in Early Childhood Education and Intervention
- CFS 6643 Curricular Adaptations and Intervention in Early Childhood
- CFS 6644 Working with Families in Early Childhood Education and Intervention

**Electives**

- Additional Elective(s) 1 3-6
- Total Hours 36

1 Additional elective credits to total a minimum of 36 credit hours must be approved in advance by the student’s major advisor.

**Master of Education in Deaf Education**

**Admission Requirements**

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition, applicants for the Master of Education in Deaf Education degree must meet all college requirements for admission and retention.

**Admission requirements for individuals applying to the Master of Education in Deaf Education:**

- Bachelor’s degree from a regionally accredited college or university in the United States or its equivalent from a school in another country.
- Submit three letters of recommendation.

In that the mission of the Deaf Education program is to prepare individuals to become certified teachers of the Deaf, preference is given to individuals who have an undergraduate elementary, secondary, or special education major and who have American Sign Language skills. However, individuals without this background should consider applying after consulting their respective state department of education for details regarding teacher of the Deaf certification/licensure.

**General Requirements**

Students completing a Master of Education in Deaf Education must complete a minimum of 33 semester credit hours. Students seeking Idaho certification in the
area of their training must meet the State Board of Education requirements for certification/licensure. Students seeking certification in their area of training from another state must meet the requirements of that state.

**Required Core Professional Studies**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EDUC 6601</td>
<td>Research and Writing</td>
<td>3</td>
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<tr>
<td>EDUC 6610</td>
<td>Applied Educational Statistics</td>
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**Specialty Deaf Education Studies**

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<tr>
<th>Course Code</th>
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<tr>
<td>EDHH 5556</td>
<td>Psychosocial Aspects of Deafness</td>
<td>3</td>
</tr>
<tr>
<td>EDHH 6609</td>
<td>Teaching Internship in Deaf Education</td>
<td>3</td>
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<tr>
<td>EDHH 6627</td>
<td>Literacy Curriculum in Deaf Education</td>
<td>3</td>
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<tr>
<td>EDHH 6628</td>
<td>Curriculum Organization in Deaf Education</td>
<td>3</td>
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<tr>
<td>EDHH 6637</td>
<td>Foundations of Deaf Education</td>
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<tr>
<td>EDHH 6658</td>
<td>Teaching Language to the Deaf</td>
<td>3</td>
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<tr>
<td>EDHH 6659</td>
<td>Teaching Academic Subjects to the Deaf</td>
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**Integrative Field Research Studies**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EDHH 6651</td>
<td>Field Project or Case Study in Deaf Education</td>
<td>3</td>
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**Electives**

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Elective credits to total a minimum of 33 credits hours for the Master’s must be taken from relevant graduate-level courses. Elective credits must be approved in advance by the student’s major advisor. In certain situations a student’s program of study might exceed 33 credits. The three most common situations are:

1. Applicants will be evaluated as to their teaching experience with Deaf/hard of hearing children:
   a. those with three or more years of such teaching experience will be able to waive EDHH 6609 Teaching Internship in Deaf Education (3 credits) but will need to take added electives;
   b. those who do not meet the three years teaching experience will need to take EDHH 6609 (3 credits).

2. Applicants who do not meet American Sign Language proficiency will need to complete appropriate coursework; verification can be established through various sign language quality assurance examinations (e.g., RID, NAD, or EIPA [3.5 or above] certification), or transcript verification.

3. Applicants who do not have appropriate coursework in communication sciences/disorders and audiology will be advised to take appropriate courses in order to meet teacher of the Deaf and hard of hearing standards as identified in state certification/licensing documents. A thorough examination of each applicant’s transcript will be completed to determine what coursework the student has completed and what coursework is needed to complete the Master of Education in Deaf Education, as well as state certification/licensure requirements to become a teacher of the Deaf/hard of hearing.

**Child and Family Studies Courses**

**CFS 5501 Foundations of Early Childhood Education Intervention: 3 semester hours.**

Examination of social, historical, and philosophical foundations of early childhood education and intervention and their respective influences on currently accepted concepts and practices in programs serving young children from birth through age eight

**CFS 5531 Family Resource Management: 3 semester hours.**

Management theory for resource utilization and goal achievement. Issues include stress, communication, and family types. Emphasis on decision-making related to the dynamics of balancing work and family

**CFS 5532 Behavioral Growth and Development: 1 semester hour.**

General body growth and development of the normal child. Major theories of psychological growth and maturation of the normal child with common aberrations. Dental management of children in regard to psychological growth and development (IDEP course)

**CFS 5533 Relationships Within Families: 3 semester hours.**

Building and maintaining positive relationships within families. Critical issues facing individuals and families including communication, cultural diversity, balancing multiple roles, time management, and financial planning

**CFS 5539 Sports Nutrition: 2 semester hours.**

Review nutrition recommendations for both competitive and recreational athletic performance. Background into metabolism of nutrients related to strength and endurance given as rationale for nutrition practices. Controversies and misinformation addressed. Equivalent to NTD 5539. PREREQ: NTD 2239

**CFS 5561 Advanced Nutrition: 3 semester hours.**

Advanced study of nutrition science, including protein, carbohydrate, lipid, vitamin, and mineral metabolism. Introduction to research methodology and professional literature. Equivalent to NTD 5561. PREREQ: CHEM 1102 and NTD 2239

**CFS 5570 Consumer Economics: 3 semester hours.**

Financial management content with a focus on developing effective decision-making processes for managing resources. Topics: the changing American family; consumer protection and recourse; purchasing decisions; consumer credit; fundamentals of savings/investment; and insurance

**CFS 5571 Advanced Consumer Economics: 3 semester hours.**

Advanced study of social and economic problems affecting individuals and families. Topics: financial security; credit and loans; tax planning; major consumer purchases; risk management; investments; retirement and estate planning. PREREQ: CFS 5570

**CFS 5572 Teaching Consumer Economics: 1-3 semester hour.**

Designed to provide educators with current content and resources for developing consumer and economic education curriculum. Teaching techniques discussed and practiced. PREREQ: CFS 5571

**CFS 5597 Professional Education Development Topics: 1-3 semester hour.**

A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. Must be graded S/U

**CFS 5599 Experimental Course: 1-6 semester hour.**

This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**CFS 6600 Issues and Trends in Child and Family Studies: 3 semester hours.**

Exploration and discussion of current issues and trends impacting children and families and programs designed to serve them

**CFS 6621 Learning and Development in Early Childhood Education: 3 semester hours.**

Investigation of the development characteristics and processes of the young child from birth to age 8 related to the process of knowledge construction

**CFS 6622 Curriculum in Early Childhood Education: 3 semester hours.**

Examination and implementation of developmentally appropriate curricular practices that simultaneously strengthen all domains of development and contribute to the construction of knowledge in content areas

**CFS 6631 Family Diversity: 3 semester hours.**

Exploration and analysis of the role of diversity in defining family structure, functioning, and development. Includes focus on educational implications and opportunities for observation in a variety of settings
CFS 6632 Theoretical Frameworks for Understanding Families: 3 semester hours.
Analysis of theories of family interaction and family functioning. Emphasis on family development theory, family systems theory, social models, and other relevant models of family functioning.

CFS 6634 Public Policy for Children and Families: 3 semester hours.
Analysis of selected state and federal legislation affecting the status of children and families. Focus includes legal definitions related to children and families and advocacy networks.

CFS 6642 Assessment in Early Childhood Education and Intervention: 3 semester hours.
Selection, administration, and interpretation of assessment tools employed in early childhood inclusive practice. Emphasizes screening, educational assessment, and monitoring of child progress. PREREQ: CFS 5501 or permission of instructor.

CFS 6643 Curricular Adaptations and Intervention in Early Childhood: 3 semester hours.
Overview of theoretical bases for early intervention and selected service delivery models. Focus on program planning, curriculum, materials, procedures, and program evaluation. PREREQ: CFS 5501 or permission of instructor.

CFS 6644 Working with Families in Early Childhood Education and Intervention: 3 semester hours.
Theoretical and applied perspectives in providing family-focused early childhood services. Emphasis on models for service delivery and service coordination for all families with young children including those from diverse backgrounds.

CFS 6647 Internship in Child and Family Studies: 1-6 semester hour.
Supervised practice in demonstration of competencies for children and families in a variety of educational settings. Fifty hours of experience and supervision equals one hour of academic credit. May be repeated.

CFS 6659 Seminar in Child and Family Studies: 1-3 semester hour.
Critical analysis of the literature in one or more areas related to children and families. May be repeated up to 6 credits.

CFS 6660 Case Study or Project in Child and Family: 1-6 semester hour.
Under faculty supervision, student is responsible for development and oral presentation of a comprehensive case study or a comprehensive graduate field project. May be repeated up to 6 credits.

CFS 6666 Supervision of Family and Consumer Sciences Education: 2 semester hours.
Explores roles and responsibilities of cooperating teachers and college supervisor in providing desirable experiences of family and consumer sciences student teachers in the public schools. Supervision styles will be reviewed and evaluated.

CFS 6669 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

Deaf Education Grad Courses Courses

EDHH 6556 Psychosocial Aspects of Deafness: 3 semester hours.
Psychological, educational and social influences of the hearing community on deaf persons and the structure of the deaf community as a socio-cultural entity.

EDHH 6607 Directed Observation in Education of the Deaf: 1 semester hour.
Directed observations at multiple levels and reporting of casual interactions and diagnostic/intervention approaches by instructor with deaf or hard of hearing individuals (minimal 150 clock hours). May be repeated up to 3 credits.

EDHH 6608 Communication Practicum: 2 semester hours.
Supervised experiences applying research and theory to language intervention practices for Deaf or hard of hearing individuals. May be repeated up to 6 credits.

EDHH 6609 Teaching Internship in Deaf Education: 1-3 semester hour.
Directed classroom and clinical teaching experience with Deaf or hard of hearing students under supervision. Minimum 250 clock hours at the level specialization. May be repeated up to 6 credits. Graded S/U. PREREQ: Approved application.

EDHH 6627 Literacy Curriculum in Deaf Education: 3 semester hours.
Theory, research and practices for teaching and assessing written language for Deaf and hard of hearing students. Applications of principles of language acquisition to reading and writing.

EDHH 6628 Curriculum Organization in Deaf Education: 3 semester hours.
Organizing, adapting and implementing curriculum across all areas to meet the special needs of Deaf or hard of hearing students. Includes assessment, behavior management, instructional technology, and individualized planning.

EDHH 6637 Foundations of Deaf Education: 2 semester hours.
A comprehensive study of the philosophies and theories that influence current practice and research in the education of Deaf or hard of hearing students.

EDHH 6651 Field Project or Case Study in Deaf Education: 1-3 semester hour.
A field project or case study is completed in conjunction with the field internship and/or education scenario. Written report and oral explication required. May be repeated up to 6 credits. Graded S/U.

EDHH 6658 Teaching Language to the Deaf: 3 semester hours.
Students gain theoretical and practical knowledge in the evaluation and habilitation of language/communication problems in Deaf and hard of hearing children and adolescents.

EDHH 6659 Teaching Academic Subjects to the Deaf: 3 semester hours.
Students gain theoretical and practical knowledge of how to teach academic subjects to the Deaf and hard of hearing children and individuals.

Education Courses

EDUC 5519 Developmental Literacy: 3 semester hours.
Instructional strategies for reading, emphasizing early literacy and language development, phonemic awareness, phonics, word recognition strategies, comprehension and meta-linguistic awareness.

EDUC 5524 Assessing Literacy Abilities: 3 semester hours.
Methods of assessment in literacy. Introduction to case study, formal and authentic measures of comprehension, vocabulary, study strategies, and writing. PREREQ: EDUC 5519 or the Idaho Comprehensive Literacy Assessment, or permission of instructor.

EDUC 5526 Remediation of Literacy Problems: 3 semester hours.
Teaching strategies for remediating problems in literacy. Emphasis on planning, implementing, and evaluating approaches and materials. PREREQ: EDUC 5524.

EDUC 5560 Foundations of ESL: 3 semester hours.
Study of ESL learner characteristics, historical, philosophical, cultural and linguistic foundations of ESL. Theories of language acquisition and those of leaders in the field will be included.

EDUC 5563 ESL Methods: 3 semester hours.
Language assessment, planning, and delivery for teaching limited English proficient K-12 students. Appropriate methods for students at various developmental stages of language acquisition will be studied. PREREQ: EDUC 5560.

EDUC 5564 ESL Practicum: 1 semester hour.
Field experience in settings with English as-a-Second-Language learners. COREQ: EDUC 5563 or permission of instructor.
EDUC 5570 Manipulative Mathematics: 3 semester hours.
Study of methods for teaching mathematics through the modern math approach stressing manipulations. Consideration is given to diagnostic and remedial procedures for exceptional children

EDUC 5571 Interpersonal Communications: 2 semester hours.
Examination of basic concepts, principles, models, and theories of interpersonal communications and their application to educational settings

EDUC 5581 Contemporary Issues in Education: 1-3 semester hour.
Examination and analysis of contemporary issues and trends in theories and practices in education

EDUC 5582 Contemporary Issues in Education: 1-3 semester hour.
Examination and analysis of contemporary issues and trends in theories and practices in education

EDUC 5583 Instructional Improvement for Teachers: 1-3 semester hour.
Study of ways by which teachers can improve instruction in their own classrooms with emphasis on the findings of research and experiences

EDUC 5585 Independent Problems in Education: 1-3 semester hour.
Individual work under staff guidance. Field and/or library research on specific educational problems of interest to majors in education. Experience in research composition. May be repeated

EDUC 5591 Seminar: 1-3 semester hour.
Critical analysis of the literature in one or more areas of education. Limited enrollment

EDUC 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. Must be graded S/U

EDUC 5598P Prof Development Workshop: 3 semester hours.
New methods and opportunities to enhance and supplement skills. Subject to the approval of the Dean of the student's college, a maximum of eight credits earned in workshops may be applied toward a degree; students taking the courses only for personal development may choose the 0-credit option; those seeking professional development must choose a for-credit option

EDUC 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

EDUC 6601 Research and Writing: 3 semester hours.
Examination of methods for designing/conducting research in education and related fields and of procedures for formal report writing using APA style and format

EDUC 6602 Theories of Learning: 3 semester hours.
Advanced study of the psychology of human learning and instruction. Emphasis will be given to the application of contemporary theories of learning to instructional practice and the design of effective learning environments

EDUC 6610 Applied Educational Statistics: 3 semester hours.
Application of parametric and nonparametric statistical procedures for summarizing and analyzing qualitative and quantitative measurement data in conducting research and for report writing in education and related fields. Covers descriptive statistics to single-factor experiments

EDUC 6612 Learners and the Content: 3 semester hours.
Examination of curriculum scope and sequence within the context of varying learner needs. The course will focus on curriculum alignment with state and national standards and the connecting of content to learner characteristics and developmentally appropriate teaching practices. COREQ: EDUC 6602

EDUC 6614 Pedagogy and Content Knowledge: 3 semester hours.
Investigation of the structure of subject matter knowledge and how it determines pedagogical content. The course will examine philosophical perspectives, models of teaching, and develop contemporary applications. PREREQ or COREQ: EDUC 6602

EDUC 6618 Learning Communities: 3 semester hours.
Exploration of learning communities and examination regarding models for how they are created and sustained through curriculum leadership. The course includes such topics as parental involvement, curriculum for diverse learners, and collaborative teaching practices. PREREQ: EDUC 6612 and EDUC 6614

EDUC 6620 Motivation for Learning: 3 semester hours.
Advanced study of theories and research on student motivation including strategies for linking motivation to classroom management and curriculum. Topics include individual differences, interpersonal motivation, self-motivation, and lifelong learning. PREREQ: EDUC 6612

EDUC 6622 Educational Assessment and Evaluation: 3 semester hours.
Construction, administration and interpretation of educational assessments for the systematic analysis of student learning and teaching practice. Emphasis is placed on the use of assessment results in planning and valuation of curriculum leadership. PREREQ: EDUC 6610

EDUC 6627 NBPTS Certification Part I: 3 semester hours.
Provides a framework for completion of the requirements for National Board for Professional Teaching Standards Certification. Examination of the standards and portfolio guidelines; provision of support and consultation in gathering and presenting documentation

EDUC 6628 NBPTS Certification Part II: 3 semester hours.
Mentors and supports teachers through advanced National Board for Professional Teaching Standards. Development of classroom-based portfolio entries and preparation for assessment center exercises. PREREQ or COREQ: EDUC 6627

EDUC 6630 Advanced Elementary Methods: 3 semester hours.
Advanced study of the subject content and teaching methods in grade K-8 programs. The course includes emphasis on development of materials, lesson planning, instructional strategies, assessment, and application of technology for information acquisition, analysis, and presentation by students and teacher

EDUC 6631 Advanced Secondary Methods: 3 semester hours.
Advanced study of the subject content and teaching methods in grade 6-12 programs. The course includes emphasis on development of materials, lesson planning, instructional strategies, assessment and application of technology for information acquisition, analysis, and presentation by students and teacher

EDUC 6632 Psychology of Literacy: 3 semester hours.
Examination of the nature of symbolic systems within the literacy field from the perspective of contemporary psychological science. Topics include decoding, lexical access, referential representation, and meta-cognition

EDUC 6633 Language Literacy and Neurology: 3 semester hours.
Theories and principles based on research in psycholinguistics and neurophysiology as related to literacy

EDUC 6634 Literacy Multicultural Views: 3 semester hours.
Theories and research in language acquisition and development across cultures including emphases on second language acquisition, dialects, and regionalisms affecting both oral and written codes

EDUC 6635 Clinical Methods in Literacy: 3-6 semester hour.
Consulting, supervising, evaluating, writing case reports, and relating research and theories in literacy to clinical methods. May be repeated up to 6 credits. PREREQ: EDUC 5524, EDUC 5526 and EDUC 6633
EDUC 6637 Leadership in Curriculum Development: 3 semester hours.
Development of the knowledge, skills, and disposition essential to effective curriculum leadership. While drawing on philosophy, the course focuses on the practical applications of leadership, including curriculum vision, development, management, and evaluation. PREREQ: EDUC 6618, EDUC 6620 and EDUC 6622

EDUC 6638 Supervision of Interns and Student Teachers: 2 semester hours.
Role and responsibilities of supervisory personnel in the intern and student teaching programs including student orientation readiness, planning and techniques of instruction, and evaluation

EDUC 6640 Workshop: 1-2 semester hour.
Special projects concerned with public school education. Meets for a minimum of 36 clock hours with appropriate outside assignments, lessons, or papers. May be repeated up to 6 credits

EDUC 6641 Advanced Studies in K-12 Curriculum: 3 semester hours.
Advanced study of research and development of subject-specific curriculum in K-12 environments. Students will create a curriculum unit, demonstrating it as part of and sections will be established for each subject area. PREREQ: EDUC 6601 and EDUC 6630 or EDUC 6631

EDUC 6648 Independent Problems in Education: 1-3 semester hour.
Individual work under staff guidance. Field and/or library research on specific educational problems of interest to graduate students in education. Experience in research composition. May be repeated up to 4 credits

EDUC 6649 Seminar: 1-3 semester hour.
Critical analysis of the literature in one or more areas of education. Enrollment limited

EDUC 6650 Thesis: 1-6 semester hour.
1-6 Credits. May be repeated. Graded S/U

EDUC 6651 Field Project or Case Study in Education: 1-6 semester hour.
A field project or case study is completed in conjunction with a field practicum/ internship in an educational setting. Written report and oral explication of the project or case study required. May be repeated. Graded S/U

EDUC 6652 Field Practicum in Education: 1-6 semester hour.
Individually designed practicum in an educational setting. The length, placement, and learning experiences will be determined in consultation with the major advisor. Graded S/U

EDUC 6670 Seminar in Elementary Education: 3 semester hours.
Examination of research and current issues in Elementary Education. Seminar format requires readings, discussions, written assignments, and presentations

EDUC 6671 Seminar in Secondary Education: 3 semester hours.
Examination of research and current issues in Secondary Education. Seminar format requires active participation in readings, discussion, written assignments, and presentations

EDUC 6675 Curriculum Project: 3 semester hours.
Completion of a curriculum project within the context of a supportive learning community, or for those teachers who have achieved National Board Certification, submission of the portfolio

EDUC 6676 Evaluation Research Practicum: 3 semester hours.
Supervised on-going assessment of curriculum projects and the systematic evaluation of their implementation in educational settings or, for those teachers who have achieved National Board Certification, content analysis of the portfolio. Each student will complete an independent curriculum evaluation project

EDUC 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Special Educ Courses
SPED 5523 Designing Instruction: 3 semester hours.
Introduction to instructional design principles and strategies for engaging students in higher order thinking and problem-solving. Emphasis on teaching complex concepts in reading comprehension, writing, mathematics and other academic subjects

SPED 5524 Assessment Procedures in Special Education: 3 semester hours.
Introductory study of diagnostic assessment techniques and the writing of individual educational, behavioral prescriptions, and instructional objectives which are required to provide interventions suitable for remediating the learning programs in basic school curricula. PREREQ: SPED 3330 and SPED 4441 or permission of instructor

SPED 5526 Assessment Severe Disabilities: 3 semester hours.
Selection, administration, and interpretation of criterion-referenced tools employed with severely disabled students. Emphasizes functional approach to assessment and evaluation of behavioral and instructional domains

SPED 5527 Precision Teaching: 1 semester hour.
Techniques of data collection, charting, and decision making in the educational programs of children with disabilities

SPED 5529 Strategies Severe Disabilities: 3 semester hours.
Consideration and evaluation of curriculum materials from behavioral, developmental, and ecological perspectives. Emphasizes functional approach to development and implementation of individualized intervention plans

SPED 5532 Direct Instruction Systems: 3 semester hours.
This course provides mastery level skills training in direct instruction systems for reading, math, and written language. Includes field work, adaptation of curricula to direct instruction model and evaluation

SPED 5533 The Emotionally Disturbed Child: 3 semester hours.
Survey of the causes of emotional disturbance in children and the effects upon the child's school performance and achievement. School programs and treatment considerations will be reviewed

SPED 5538 Policies and Procedures in Special Education: 3 semester hours.
Consideration of legal background, current court ruling, professional responsibilities, and models for consultation and collaboration in a variety of educational settings. Includes the IEP process

SPED 5540 Biomedical Aspects of Physical Disability: 2 semester hours.
Study of the causes, treatments, and educational implications of physical and neurological disorders of genetically and orthopedically disabled children

SPED 5543 Autism: 1-2 semester hours.
An overview of autism and implications for educational planning. Teaching strategies that are successful in working with individuals who have autism will be reviewed

SPED 5546 Secondary Special Education: 3 semester hours.
Teaching methodology focusing on needs of secondary and adult special education students. Topics include functional academics, transition, independent living, social skills, vocational training employment options, and accessing community resources

SPED 5548 Pre-practicum Moderately Handicapped: 1-3 semester hour.
Supervised practical work with moderately handicapped children in a clinical setting. May be repeated
SPED 5550 Creating Inclusive Classrooms: 3 semester hours.
Curricula and methods for educating students with disabilities in general education classrooms. Emphasizes inclusive lesson design, curricular adaptations, and collaborative teaching

SPED 5562 Advanced Issues in Behavior Disorders: 2 semester hours.
Study of educational organization, collaboration and consultation skills necessary to provide integrated service for this exceptionality

SPED 5580 Seminar in Special Education: 1-2 semester hour.
Current topics in the field of special education by departmental faculty and guest lecturers. May be repeated for a total of 2 credits

SPED 5581 Seminar Behavior Disorders: 1 semester hour.
Covers topical issues related to the education of children with behavior disorders in a variety of educational and therapeutic settings. May be repeated

SPED 5585 Independent Problems: 1-3 semester hour.
Individual work under staff guidance. Field and/or library research on specific educational problems of interest to majors in education. Experience in research composition. May be repeated

SPED 5591 Seminar: 1-3 semester hour.
Critical analysis of the literature in one or more areas of education. Limited enrollment. May be graded S/U or on a letter-grade basis in separate sections

SPED 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. Must be graded S/U

SPED 5598 Advanced Fieldwork: 1-3 semester hour.
Orientation, observation, planning and implementation of special education instruction in a special education setting in the public schools

SPED 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

SPED 6630 Professional Development in Special Education: 2 semester hours.
Issues related to the professional role of the master's-degree-level special educator, including professional societies, history, philosophical and humanistic foundations

SPED 6632 Administration of Special Education: 2 semester hours.
Supervision of special education, including the organization, financing, equipping, housing, and staffing of educational facilities for exceptional children. Also includes legal provisions relevant to special education

SPED 6633 The Behaviorally Maladjusted Child: 3 semester hours.
Comprehensive study of the characteristics, learning problems, educational organizations, and teaching competencies for this exceptionality. PREREQ: SPED 4441

SPED 6634 The Mentally Gifted Child: 3 semester hours.
Physical, mental, emotional, and social characteristics of the mentally gifted; teaching procedures, types of organization, analysis of educational need, and curricula material used in their education

SPED 6636 Medical and Health Issues in Special Education: 2 semester hours.
Consideration of medical and health issues, problems, and practices as they pertain to children with disabilities in hospital-, home-, and school-based programs

SPED 6638 Practicum in Special Education: 2-8 semester hour.
Individual observation, program development, and supervised practice in the development of teaching competencies for the education of exceptional children. A combination of fifty hours of experience and supervision equals one hour of academic credit

SPED 6639 Internship in Special Education: 3-12 semester hour.
A combination of fifty hours of experience and supervision equals one hour of academic credit. PREREQ: SPED 6638

SPED 6650 Thesis: 1-6 semester hour.
1-6 credits. May be repeated. Graded S/U

SPED 6651 Masters Paper: 1-3 semester hour.
A paper involving extensive familiarity with research findings written under the supervision of a faculty member in the department. May be repeated. Graded S/U

SPED 6652 Specialist Paper: 1-3 semester hour.
A paper involving extensive familiarity with research finding under the supervision of a faculty member of the program, consisting of applied research activity in the field of special education written in format appropriate for publication consideration by a peer-reviewed journal

SPED 6658 Independent Problems: 1-3 semester hour.
Individual work under staff guidance. Field and/or library research on specific educational problems. Experience in research composition. May be repeated up to 6 credits

SPED 6659 Seminar: 1-3 semester hour.
Critical analysis of the literature in one or more areas of education. Enrollment limited. May be repeated up to 8 credits

SPED 6662 Consultation in Schools: 2 semester hours.
Provides theoretical and practical experience in the development, implementation, and evaluation of a variety of consulting strategies suitable for working with teachers, administrators, community agencies, and parents

SPED 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

SPED 7758 Independent Problems: 2-4 semester hour.
Individual work under staff guidance. Field and/or library research on specific educational problems. Experience in research composition. May be repeated up to 8 credits

Placement in a post-master's degree counseling, school psychology, or special education setting. A combination of fifty hours of experience and supervision equals one hour of academic credit. May be repeated
Health Science

Linda C. Hatzenbuehler, Ph.D., Vice Provost and Executive Dean
Paul S. Cady, Ph.D., Dean, College of Pharmacy
Kristin Calley, RDH, Coordinator, Office of Medical and Oral Health
Nancy Devine, DPT, Associate Dean and Director, School of Rehabilitation and Communication Sciences
Tracy Farnsworth, Ed.D., M.H.S.A., M.B.A, Associate Dean and Director, Kasiska School of Health Professions
Rex W. Force, Pharm.D., Associate Dean for Clinical Research
Neill F. Piland, Director, Institute of Rural Health
Linda Rankin, Ph.D., Associate Dean

The Division of Health Sciences is organized into five academic units:

- College of Pharmacy
- Kasiska School of Health Professions
- Office of Medical and Oral Health
- School of Nursing
- School of Rehabilitation and Communication Sciences

Idaho State University’s Division of Health Sciences provides continued leadership in the delivery of health care by educating caring and competent professionals across all dimensions of health and promotes collaborative research and practice in the health sciences.

Pharmacy

Paul S. Cady, Ph.D., Professor, Dean
Catherine Cashmore, Pharm.D., Associate Professor, Associate Dean

Department of Biomedical and Pharmaceutical Sciences

Chair and Professor: Diedrich
Professors: Dodson, Lai, Van der Schyf
Associate Professors: Bigelow, Wilson
Assistant Professors: Downing, Hevener, Myers, Talley, Xu, Yan

Department of Pharmacy Practice and Administrative Sciences

Chair and Associate Professor: Owens
Assistant Chair and Associate Professor: Oliphant
Professors: Adamcik, Culbertson, Erramouspe, Force, Lott, Madaras-Kelly, Mason, Rhodes
Associate Professors: Cashmore, Cleveland, Gould, Hunt, Liday
Clinical Associate Professor: Hefflinger, Pettinger, Pugmire
Clinical Assistant Professors: Borzadek, Carr, Casperson, Davis, Eroschenko, Hachey, Janitz, Steed, Wadsworth

Emeritus: Galizia, Hurley, Sharp, Jae

Degree Programs

The College of Pharmacy offers two graduate degrees: the Master of Science (M.S.) in Pharmaceutical Sciences and the Doctor of Philosophy (Ph.D.) in Pharmaceutical Sciences. The College also offers a professional doctorate degree, Doctor of Pharmacy (Pharm.D.). The Pharm.D. is described in the College of Pharmacy (http://coursecat.isu.edu/undergraduate/divisionhealth/pharmacy/#text) section of the Idaho State University Undergraduate Catalog.

Goals

To train and prepare students to succeed in their chosen career path in the variety of areas in pharmaceutical sciences.

Objectives

- To rigorously train students in the department focus areas;
- To train students to be effective communicators of their knowledge and scientific findings;
- To expose students to multidisciplinary approaches to problem-solving so that they can use them to solve scientific problems;
- To educate students to be competent practitioners of the scientific method;
- To expose students to a variety of professional strategies so that, upon finishing their training, they become adaptable and successful in achieving their long-range goals.
Doctor of Philosophy

Programs of study leading to the Doctor of Philosophy (Ph.D.) degree are offered through the Department of Biomedical and Pharmaceutical Sciences (emphasis areas of Biopharmaceutical Analysis, Drug Delivery, Medicinal Chemistry, or Pharmacology) and through the Department of Pharmacy Practice and Administrative Sciences (emphasis in Pharmacy Administration). The Ph.D. degree is a research degree and will be conferred upon the completion and report of a substantial body of original work.

Admission Requirements

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with the following:

1. Baccalaureate degree in biology, chemistry, psychology, other scientific field, or a professional degree in pharmacy.
2. GPA of not less than 3.0 for all upper division courses.
3. Achieve at least the 50th percentile in one of the Graduate Record Examination aptitude section scores (Verbal, Quantitative, or Analytical).
4. Three letters of recommendation from individuals familiar with the applicant's academic ability and potential for graduate study.

Meeting minimum requirements does not guarantee admission. Students not meeting the minimum admission requirements for the Ph.D. program may reapply to continue on for the Ph.D. degree following successful completion of the M.S. in Pharmaceutical Sciences.

General Requirements

Each beginning graduate student will have a graduate advisor assigned from the graduate faculty upon entry into the program. The student’s advisor will assist the student in preparing an appropriate program of study for course work. While there is no fixed credit requirement for the Ph.D. in Pharmaceutical Sciences, the overall program of study will include at least 72 semester hours of graduate course work. The student is expected to have selected a major advisor from the graduate faculty no later than the end of his/her second semester in residence.

A grade below B is unsatisfactory and will not be counted toward fulfilling the minimum requirements for the degree. Upon recommendation of the student’s advisor, and with the approval of the Director of the Graduate Program, a student may be required to withdraw at any time for failure to maintain satisfactory progress toward the degree.

When course work is essentially complete, candidates for the Ph.D. degree complete a series of written and oral comprehensive examinations that may include the defense of a written research proposal. Upon completion of all proposed research, the student’s findings will be reported in the form of a dissertation to be prepared in accordance with Department and Graduate School guidelines. While the dissertation must be defended to the graduate faculty of the College, acceptability only requires the affirmative vote of a majority of the student’s committee members.

Doctor of Philosophy in Pharmaceutical Sciences (Biopharmaceutical Analysis, Medicinal Chemistry, Pharmaceutics, or Pharmacology Emphasis)

Admission Requirements

Official report of Graduate Record Examination scores. Applicants should achieve at least a 50th percentile on one of the three aptitude sections (Verbal, Quantitative, Analytical). Achievement of two or more scores at the 50th percentile is highly preferred. Applicants may be accepted as Classified (w/PR) students with lower GRE scores.

International students must have a demonstrated proficiency in the English language. Students from countries where English is not the first language must demonstrate proficiency in the English language. International students should refer to the “Admission of International Students” section of the Graduate Catalog.

Students with international coursework to be considered with their applications must submit an official detailed evaluation report from an institution that is a member of the National Association of Credential Services Incorporated (NACSI).

Three letters of recommendation and a personal statement of interest must accompany the application. The personal statement of interest should clearly identify which area of emphasis in the graduate program the applicant intends to follow (e.g., pharmacology, medicinal chemistry, etc.), and members of the department faculty with whom the applicant would prefer to complete his/her degree. Applications without a personal statement following these guidelines will be rejected.

Applications for the graduate program in Pharmaceutical Sciences (Emphasis in Biopharmaceutical Analysis, Drug Delivery, Medicinal Chemistry, or Pharmacology) are reviewed twice yearly near the end of the fall and spring semesters. Deadline for the receipt of applications is April 1 for admission in the fall semester, and October 1 for admission in the spring semester. Incomplete applications and applications received after these deadlines will not be considered.

General Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 6601</td>
<td>Graduate Seminar (4 credits minimum)</td>
<td>1</td>
</tr>
<tr>
<td>PSCI 6602</td>
<td>Research Design and Analysis for Pharmaceutical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 6698</td>
<td>Dissertation Research (18 credits minimum)</td>
<td>1-10</td>
</tr>
<tr>
<td>PSCI 8850</td>
<td>Dissertation (minimum credits)</td>
<td>1-2</td>
</tr>
<tr>
<td>Electives in Pharmaceutical Sciences</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Biomedical and Pharmaceutical Sciences related courses (as determined by committee)</td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

Candidates must complete a minimum of 20 credits in combination of and toward completion of degree requirements after admission to candidacy.

A minimum of 72 credits including a minimum of 20 credit hours in dissertation research (PSCI 6698) and dissertation (PSCI 8850) are required. For all degree candidates, at least one half of total graduate credit hours required by the student’s Graduate Program Committee must be 6600 level. Minimum graduate credit requirements usually do not fulfill Departmental degree requirements. Specific details are provided in the Department of Pharmaceutical Sciences Graduate Guidelines.

All students in the graduate program, whether seeking the Doctor of Philosophy or the Master of Science, are expected to demonstrate proficiency in written and spoken English. Students may be required to successfully complete classes in speech and in technical writing at the request of the graduate program director and the graduate faculty of the Department of Biomedical and Pharmaceutical Sciences.
Joint Pharm. D.-M.S. in Pharmaceutical Sciences or Pharm.D.- Ph.D. in Pharmaceutical Sciences Biphasmaceutical Analysis, Medicinal Chemistry, Pharmaceutics, or Pharmacology Emphasis

Admission Requirements

Professional students currently enrolled in the College of Pharmacy may be granted early admission to a graduate program administered by the College. In order that a student be eligible for early admission to a graduate program in the College, the following criteria must be met:

1. Completion of at least 136 academic credits or a B.S. degree must be certified to the Graduate Dean by the Registrar. Such certification must include all University general education requirements, and meet all graduate student admission requirements.
2. Formal application for admission to the College graduate program, with acceptance as a Classified (w/PR) student by the appropriate department faculty.
3. A non-B.S. degree-holding student may be admitted to the Graduate School on a probationary Classified (w/PR) basis. Following the award of the Pharm.D. degree, the student may petition to change to classified status. Students should consult the Graduate Catalog for course requirements for the graduate degrees offered by the College.
4. Students must meet all the requirements of the Pharm.D. program; see Undergraduate Catalog.
5. Students must meet all the department requirements for the M.S. or Ph.D. degree described in the M.S. or Ph.D. section.
6. A joint-degree student cannot take more than 19 credits/semester while in the Pharm.D. program, of which no more than 3 credits can be graduate credits. After completing the Pharm.D. requirements, the joint degree student reverts to the Graduate School requirements, not to exceed 16 credits/semester.

Doctor of Philosophy in Pharmaceutical Sciences (Pharmacy Administration Emphasis)

Candidates must complete the following courses:

| Statistics and Research Methods                  | 4 |
| BIOL 6605  Biometry                              | 4 |
| Statistics and Research Methods                  | 4 |
| PADM 6605  Research Methods in Pharmacy Administration | 3 |
| SOC 5508  Statistical Analysis                    | 3 |
| or PSYC 6632  Statistics and Research Design II | 3 |

Pharmacy Administration Major Courses

| PADM 6601  Graduate Seminar in Pharmacy Administration (4 credits minimum) | 1 |
| PADM 6610  Social and Behavioral Aspects of Pharmacy Practice         | 3 |
| PADM 6632  Medical Economics                                           | 3 |
| PADM 6634  Advanced Pharmacy Administration I                         | 3 |
| PADM 6635  Advanced Pharmacy Administration II                        | 3 |
| Major area elective courses                                          | 12 |
| Minor Area Courses (12 courses)                                      | 12 |
| Minor area elective courses                                          | 12 |

Research Activities (19 credits minimum)

| PADM 6650  Thesis Research                                      | 3 |

Master of Science in Pharmaceutical Sciences

The M.S. program offers the student a choice of four emphases:

1. Emphasis in Medicinal Chemistry leading to the degree of M.S. in Pharmaceutical Sciences (Medicinal Chemistry).
2. Emphasis in Pharmacology leading to the degree of M.S. in Pharmaceutical Sciences (Pharmacology).
3. Emphasis in Drug Delivery leading to the degree of M.S. in Pharmaceutical Sciences (Drug Delivery).
4. Emphasis in Social and Administrative Sciences leading to the degree of M.S. in Pharmaceutical Sciences (Social and Administrative Sciences).

Admission Requirements

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition, a student must possess a baccalaureate degree in biology, chemistry, psychology, other scientific field, or a professional degree in pharmacy (B.S. or Pharm.D.) from an accredited institution, and have a grade point average of 3.0 or better on all upper-division courses. Students with a grade point average between 2.75 and 3.0 will receive consideration for admission on a Classified (w/PR) basis.

All applicants are required to provide three letters of recommendation from professors from whom they have taken courses or under whose direction they have worked. It is highly recommended that the Graduate Record Examination be taken prior to the start of the semester in which a student begins graduate study. The GRE must be taken during the first semester in residence if it has not been taken previously.

General Requirements

All classified graduate students must register for the appropriate graduate seminar (PSCI 6601) each semester in which they are registered for graduate credit. A maximum of two credits in graduate seminar (PSCI 6601) may be applied toward the degree.

Early Entry Into the Graduate Program For Pharmacy Students Only

Professional students currently enrolled in the College of Pharmacy may be granted early admission to a graduate program administered by the College following completion of the second professional (P2) year in the Pharm.D. curriculum.

In order that a student be eligible for early admission to a graduate program in the College, the following criteria must be met:

1. Completion of at least 136 academic credits must be certified to the Graduate Dean by the Registrar. Such certification must include all University general education requirements, and all College of Pharmacy pre-pharmacy, first
(P1) and second (P2) professional year course requirements in the Pharm.D. curriculum.

2. Minimum Graduate Record Examination scores.

3. Formal application for admission to the College graduate program, with acceptance as a Classified (w/PR) student by the appropriate department faculty.

After meeting the above three criteria, a student may be admitted to the Graduate School as Classified (w/PR). Following the award of the Pharm.D. degree, the student may petition to change to classified status. Students should consult the Graduate School Catalog for course requirements for the graduate degrees offered by the College.

Master of Science in Pharmaceutical Sciences
(Pharmacology, Emphasis)

Admission Requirements

The student must apply to, and meet all criteria for, admission to the Graduate School.

International students must have a demonstrated proficiency in the English language. Students from countries where English is not the first language must demonstrate proficiency in the English language. International students should refer to the "Admission of International Students" section of the Graduate Catalog.

Three letters of recommendation and a personal statement of interests must accompany the application. The personal statement of interest should clearly identify which area of emphasis in the graduate program the applicant intends to follow (e.g., pharmacology, medicinal chemistry, drug delivery), and members of the departmental faculty with whom the applicant would prefer to complete their degree. Applications without a personal statement following these guidelines will be rejected.

Applicants for the graduate program in Pharmaceutical Sciences (Emphasis in Medicinal Chemistry, Pharmacology, or Drug Delivery) are reviewed twice yearly near the end of the fall and spring semesters. Deadlines for the receipt of applications is April 1 for admission in the fall semester, and October 1 for admission in the spring semester. Incomplete applications and applications received after these deadlines will not be considered.

Applicants should select either the thesis or non-thesis option. The thesis option is intended for students seeking to enter a research career, and requires completion of an original research project. The non-thesis option is intended for students seeking careers in pharmaceutical sciences that do not require extensive laboratory experience. Applicants are strongly encouraged to contact the Department of Biomedical and Pharmaceutical Sciences for advice on choosing which option best meets their career goals.

Thesis Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSCI 6601</td>
<td>1</td>
</tr>
<tr>
<td>PSCI 6602</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 6650</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Biomedical...</td>
<td>12</td>
</tr>
</tbody>
</table>

A minimum of 30 credits, including at least 6 credit hours in thesis research (PSCI 6650), is required by the Graduate School. For all degree applicants, at least one half of total graduate credit hours required by the student’s Graduate Program Committee must be at the 6600-level. Minimum Graduate School credit requirements may not fulfill Departmental degree requirements.

Non-Thesis Option

Applicants must complete the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSCI 6601 Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>PSCI 6602 Research Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PSCI 6604 Research Practicum</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Pharmaceutical Sciences</td>
<td>9</td>
</tr>
<tr>
<td>Biomedical and Pharmaceutical Sciences</td>
<td>15</td>
</tr>
</tbody>
</table>

A minimum of 36 credits is required. For all degree applicants, at least one half of total graduate credit hours required by the student’s Graduate Program Committee must be at the 6600-level. Minimum Graduate School credit requirements may not fulfill Departmental degree requirements.

Students may be required to successfully complete classes in speech and in technical writing at the request of the graduate program director and the graduate faculty of the Department of Pharmaceutical Sciences.

Master of Science in Pharmaceutical Sciences
(Pharmacy Administration Emphasis)

Applicants may elect either a thesis or non-thesis option and must complete the following courses:

M.S. Degree Non-Thesis Option

<table>
<thead>
<tr>
<th>Statistics and Research Methods</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PADM 6605 Research Methods Pharmacy Admin.</td>
<td>3</td>
</tr>
</tbody>
</table>

Pharmacy Administration Major Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PADM 6601 Grad Seminar Pharm Admin.</td>
<td>1</td>
</tr>
<tr>
<td>PADM 6610 Soc and Behavioral Pharmacy Practice</td>
<td>3</td>
</tr>
<tr>
<td>or PADM 6632 Medical Economics</td>
<td></td>
</tr>
<tr>
<td>PADM 6634 Adv Pharmacy Admin I</td>
<td>3</td>
</tr>
<tr>
<td>or PADM 6635 Adv Pharmacy Admin II</td>
<td></td>
</tr>
<tr>
<td>Major area electives</td>
<td>15</td>
</tr>
</tbody>
</table>

M.S. Degree Thesis Option

<table>
<thead>
<tr>
<th>Statistics and Research Methods</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 6605 Biometry</td>
<td>4</td>
</tr>
<tr>
<td>PADM 6605 Research Methods Pharmacy Admin.</td>
<td>3</td>
</tr>
</tbody>
</table>

Pharmacy Administration Major Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PADM 6601 Grad Seminar Pharm Admin.</td>
<td>1</td>
</tr>
<tr>
<td>PADM 6610 Soc and Behavioral Pharmacy Practice</td>
<td>3</td>
</tr>
<tr>
<td>or PADM 6632 Medical Economics</td>
<td></td>
</tr>
<tr>
<td>PADM 6634 Adv Pharmacy Admin I</td>
<td>3</td>
</tr>
<tr>
<td>or PADM 6635 Adv Pharmacy Admin II</td>
<td></td>
</tr>
<tr>
<td>Major area electives</td>
<td>12</td>
</tr>
</tbody>
</table>

Research Activity

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PADM 6650 Thesis Research</td>
<td>6</td>
</tr>
</tbody>
</table>
Joint Pharm.D.-Graduate Degree Program (Social and Administrative Sciences Emphasis)

Applicants must complete the following courses while enrolled in the P3 and P4 years of the Pharm.D. curriculum. (The courses listed below substitute for PSCI 5532 Clinical Research Design and Analysis, and 6 credits of professional electives required in the Pharm.D. curriculum). In addition, the following courses taken in the P3 year will constitute a minor area in Clinical Pharmacy as required in the graduate program: PPRA 5534 and PPRA 5535 Therapeutics I and II, PSCI 5529 Clinical Pharmacokinetics, PSCI 5568 Toxicology; PPRA 5569 will substitute for 3 credits of PADM 6650 Thesis Research.

Third Professional Year Course Substitutions

| BIOL 6605 Biometry | 4 |
| PADM 6605 Research Methods in Pharmacy Administration | 3 |
| Pharmacy Administration major area graduate course | 3 |

Fourth Professional Year Elective Clerkship

| PPRA 5569 Research Specialty Clerkship | 4 |

Additional Graduate Program Requirements

<table>
<thead>
<tr>
<th>M.S. (thesis option)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PADM 6601 Graduate Seminar in Pharmacy Administration (2 credits minimum)</td>
</tr>
<tr>
<td>Major area courses</td>
</tr>
<tr>
<td>PADM 6650 Thesis Research</td>
</tr>
<tr>
<td>Ph.D.</td>
</tr>
<tr>
<td>PADM 6601 Graduate Seminar in Pharmacy Administration (4 credits minimum)</td>
</tr>
<tr>
<td>Multivariate Analysis</td>
</tr>
<tr>
<td>Research Methods Elective</td>
</tr>
<tr>
<td>Major area courses</td>
</tr>
<tr>
<td>PSCI 6698 Dissertation Research (18 credits minimum)</td>
</tr>
<tr>
<td>PSCI 8850 Dissertation</td>
</tr>
</tbody>
</table>

BioMed and Pharmacy Sci Courses

**PSCI 5508 Responsible Conduct in Research: 1 semester hour.**
This course consists of the study of the ethical principles and related federal and state laws that govern scientific research. Through a combination of lecture and case study discussion, students will learn both the substance and application to scientific research of ethical principles and related laws. Topics addressed include conflict of interest, human subject research, live vertebrate animal subjects in research, safe laboratory practices, mentor/mentee responsibilities and relationships, collaborative research, peer review, data acquisition and laboratory tools (management, sharing, and ownership), research misconduct and procedures for handling misconduct, responsible authorship and publication, and contemporary ethical issues in biomedical research

**PSCI 5599 Experimental Course: 1-6 semester hours.**
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**PSCI 6601 Graduate Seminar: 1 semester hour.**
Discussion of current research and theories in Pharmaceutical Sciences. May be repeated

**PSCI 6602 Research Design and Analysis for Pharmaceutical Sciences: 3 semester hours.**
Principles of research design and statistical analysis applicable to the pharmaceutical or biomedical sciences. Emphasis on evaluation of biomedical literature and on development of research plans. PREREQ: Permission of instructor

**PSCI 6603 Scientific Communication: 2 semester hours.**
This course will survey basic techniques in scientific communication including: scientific manuscripts/articles, theses/dissertation, and other forms of written scientific communication; laboratory notebooks, reports and other technical documentation; collecting and citing literature; basic grantmanship and introduction to the NIH grant submission process; scientific poster and podium (oral communication) formats; preparation of professional scientific materials including CV/resume, research summary, research philosophy, teaching philosophy; and the use of relevant software

**PSCI 6604 Research Practicum: 3 semester hours.**
The student will receive practical laboratory training in pharmaceutical sciences under the guidance of faculty. May be repeated. PREREQ: Enrollment in the non-thesis option and permission of the instructor. Graded S/U

**PSCI 6605 Critical Literature Evaluation: 1 semester hour.**
Offered each semester, this course involves the discussion and critical analysis of the current scientific literature, focusing in the pharmaceutical sciences and its related disciplines, with written and oral presentations by the students facilitated by rotating faculty. May be repeated

**PSCI 6606 Selected Techniques in the Laboratory: 2 semester hours.**
Practical experience in the use of instrumentation and techniques in the student's area of specialization. Each student shall select three faculty laboratories in the Pharmaceutical Sciences for specific technical training. PREREQ: Permission of instructor

**PSCI 6607 Research Foundations: 3 semester hours.**
A discussion of the nature and critical analysis of experimentation, principles of the scientific method, and literature in the Pharmaceutical Sciences

**PSCI 6609 Advanced Drug Delivery: 3 semester hours.**
Critical assessment of novel drug carrier systems regarding biological, drug-related, and carrier-related factors. Study of targeted drug delivery and controlled release devices with emphasis on bioerodible polymers, matrix and reservoir systems

**PSCI 6610 Analytical Techniques in Pharmaceutics and Drug Delivery: 3 semester hours.**
Theory and practice of analytical techniques in pharmaceutics and drug delivery research. PREREQ: Permission of instructor

**PSCI 6611 Current Topics in Pharmaceutics and Drug Delivery: 1 semester hour.**
Discussion of current research topics in pharmaceutics and drug delivery. PREREQ: Permission of Instructor

**PSCI 6618 Principles of Pharmacology I: 4 semester hours.**
This course, the first of a two-part series, is designed to teach students the essential principles of pharmacology as a foundation for more advanced courses. Topics covered include cell biology, PK/PD, drug-receptor interactions, pharmacogenetics-epigenetics, and drug metabolism. Students will also be introduced to the molecular pharmacology of biological drug target classes, including enzymes, membrane receptors, ion channels, transport proteins, and transcription factors
PSCI 6619 Principles of Pharmacology II: 4 semester hours.
This course, the second of a two-part series, is designed to teach students the essential principles of pharmacology as a foundation for more advanced courses. This course focuses on the pharmacology of the major drug classes, including drugs affecting neurotransmission, cardiovascular and pulmonary function, immunomodulation, gastrointestinal function, hormones and hormone antagonists, and drug used for chemotherapy of microbial and neoplastic diseases. PREREQ: PSCI 6618

PSCI 6620 Principles of Drug Design and Drug Action: 3 semester hours.
This course will survey the principles of drug discovery, drug design, and drug action including compound screening, hit identification, lead optimization, and theories of drug-receptor binding, focusing on small-molecule drug discovery. Fundamentals of enzyme kinetics and assay development will be reviewed as well as an introduction to rational drug discovery techniques. Special topics in prodrug and peptide drug design, inorganic medicinal chemistry, design of DNA active therapeutics, drug metabolism, and natural products drug discovery will be discussed. Drug discovery case studies will highlight and reinforce the concepts and theories covered. PREREQ: Permission of instructor

PSCI 6622 Principles of Toxicology: 3 semester hours.
Introduction to basic concepts of toxicology, including mutagenesis, carcinogenesis, teratogy, risk assessment, regulatory toxicology, toxicology of solvents, pesticides, metals and radioactive materials and design of toxicological studies. PREREQ: PSCI 6621 or permission of instructor

PSCI 6623 Pharmacology of the Pulmonary and the Renal Systems: 2 semester hours.
Provides a detailed examination of the pharmacology of pulmonary and renal systems, focusing on mechanisms of action of major drug classes used in treatment of disorders via coordination with pharmacology sections of the professional pharmacotherapy module series. PREREQ: Permission of instructor

PSCI 6624 Pharmacology of the Cardiovascular System: 3-4 semester hour.
Provides a detailed examination of the pharmacology of the cardiovascular system, focusing on mechanisms of action of major drug classes used in treatment of cardiovascular disorders via coordination with pharmacology sections of the professional pharmacotherapy module series. PREREQ: Permission of instructor

PSCI 6625 Pharmacology of the Gastrointestinal and Hepatic Systems: 2 semester hours.
Provides a detailed examination of the pharmacology of GI and hepatic systems, focusing on mechanisms of action of major drug classes used in treatment of disorders via coordination with pharmacology sections of the professional pharmacotherapy module series. PREREQ: Permission of instructor

PSCI 6626 Pharmacology of the Immune System and Infectious Diseases: 3 semester hours.
Provides a detailed examination of the pharmacology of the immune system, focusing on mechanisms of action of major drug classes used in treatment of infectious diseases via coordination with pharmacology sections of the professional pharmacotherapy module series. PREREQ: Permission of instructor

PSCI 6627 Endocrine Pharmacology: 2 semester hours.
Provides a detailed examination of the pharmacology of endocrine systems, focusing on mechanisms of action of major drug classes used in treatment of disorders via coordination with pharmacology sections of the professional pharmacotherapy module series. PREREQ: Permission of instructor

PSCI 6630 Psychopharmacology: 3 semester hours.
This course will cover the mechanisms of action of psychoactive drugs, including drugs used in the treatment of psychopathological disorders and drugs of abuse. Also covered will be the learned basis of drug effects. Students will critique contemporary readings in the application of psychotherapeutic agents and processes of addiction. PREREQ: Permission of instructor

PSCI 6631 Cancer Biology: 3 semester hours.
Study of the difference between normal and cancerous cells growth control, cell cycle, carcinogenesis, growth factor and oncogenes, cellular signaling, angiogenesis, telomerases, tumor invasion and metastasis, vitamins, diet and tobacco. PREREQ: Permission of instructor

PSCI 6632 Anti-Cancer Drugs: 3 semester hours.
Cell cycle drug design and development, mechanisms of antimetabolites, alkylating agents, topoisomerase inhibitors, natural compounds, hormones and novel agents. Relationship between receptors and response to chemotherapy, drug resistance, drug delivery. PREREQ: Permission of instructor

PSCI 6633 Experimental Oncology: 2 semester hours.
Cell culture, anti-cancer drug screening, protein, RNA and DNA analysis, methods in signal transduction and oncogene expression. Immunohistology, cell cycle analysis, receptor binding, receptor screening of tumors. Laboratory work included. Limit 5 students

PSCI 6634 Current Topics in Oncology: 1 semester hour.
Study of current topics in cancer research. Emphasis on novel approaches to understand and treat cancer. PREREQ: Permission of instructor

PSCI 6635 Special Topics in Oncology: 2 semester hours.
An introduction to cancer biology and cancer terminology. An overview of fundamentals of pharmacology as applied to cancer therapy. Mechanisms of action and resistance to chemotherapeutic drugs will be emphasized. A discussion of the importance of early detection. PREREQ: Permission of instructor

PSCI 6636 Concepts and Tools in Pharmacogenomics: 2 semester hours.
The role of genetic factors in the development and evaluation of drugs, basic principles of microarray analysis introduction to proteomics. PREREQ: Permission of instructor

PSCI 6640 Elements of Nanoscience and Nanotechnology: 3 semester hours.
An introduction to the properties of nanomaterials. Applications of nanomaterials in biomedical, pharmaceutical, environmental, and bioengineering systems and their impact on society. PREREQ: Permission of instructor

PSCI 6650 Thesis Research: 1-10 semester hour.
1-10 Credits. May be repeated. Graded S/U

PSCI 6652 Advanced Biopharmaceutics and Pharmacokinetics: 3 semester hours.
Physicochemical principles involved in the kinetics of drug absorption, distribution, biotransformation, elimination, and therapeutic response. PREREQ: Permission of instructor

PSCI 6653 Principles of Biopharmaceutical Analysis: 3 semester hours.
A treatment of the principles of modern methods for the qualitative and quantitative determination of drugs in biological materials

PSCI 6655 Advanced Biopharmaceutical Analysis: 3 semester hours.
A continuation of PSCI 6653, this course covers the chromatographic techniques of analysis in detail including liquid chromatography, gas chromatography, thin layer capillary zone electrophoresis, and mass spectrometry, chromatography

PSCI 6658 Biophys Chem and Struct Biol: 3 semester hours.
This course will explore the fundamentals of macromolecular structural biology, with an emphasis on the underlying principles of the related biophysical techniques, including x-ray crystallography, NMR, and mass spectrometry. Additional techniques related to the study of biological structure and function, including ultracentrifugation, absorption spectroscopy, and chromatographic methods will also be reviewed. PREREQ: Permission of instructor

PSCI 6660 Molecular Pharmacology: 3 semester hours.
Advanced study in the transduction of biological signals, molecular basis for the action of hormones, neurotransmitters and growth factors on neurotransmission, metabolism, gene regulation and cell growth. PREREQ: PSCI 5567 and permission of instructor
PSCI 6661 Drug Metabolism: 3 semester hours.
Advanced study in drug metabolism, cytochrome P450 oxidative system, toxic actions of drugs, mutagenicity, carcinogenicity, and in vitro systems for the study of metabolism. PREREQ: Permission of instructor

PSCI 6662 Neuropharmacology: 3 semester hours.
The molecular basis of drug action in the central nervous system including nerve excitation, molecular properties of ion channels, neuropharmacological methods, pharmacology of ethanol and the mechanisms in tolerance and physical dependence. PREREQ: Permission of instructor

PSCI 6670 Computer-Aided Drug Design I: 3 semester hours.
This course, the first of a two-part series, is designed to teach students the essential elements of computer-aided drug design. It will cover principles and applications of molecular modeling, an introduction to computational quantum mechanics, energy minimizations and methods of conformational analysis, computational simulations of biophysical systems (molecular dynamics and Monte Carlo methods), protein and DNA modeling, virtual screening, and structure-based hit and lead identification methods. PREREQ: Permission of instructor

PSCI 6671 Computer-Aided Drug Design II: 3 semester hours.
This course, the second of a two-part series, is designed to teach students the essential elements of computer-aided drug design. It will cover principles and applications of cheminformatics, pharmacophore modeling in drug design, quantitative structure-activity relationship modeling, ADMET modeling, and ligand-based drug design techniques in hit identification and lead optimization. PREREQ: PSCI 6670 or permission of instructor

Advanced students are assigned special studies in areas of pharmaceutical sciences on the basis of interest and previous preparation. May be repeated. PREREQ: Permission of instructor

PSCI 6698 Dissertation Research: 1-10 semester hour.
Research toward completion of the dissertation in the pharmaceutical, social, behavioral or administrative pharmacy sciences. May be repeated. Graded S/U

PSCI 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

PSCI 8850 Dissertation: 1-10 semester hour.
Preparation of the written report of the dissertation research. Variable credits. May be repeated. Graded S/U

Non-Traditional PharmD Courses
No courses found for PDNT

Pharmacy Admin Courses
PADM 5538 Independent Problems in Pharmacy Administration: 1-4 semester hour.
Independent study of various topics in pharmacy administration. May be repeated

PADM 5544 Pharmacy Management I: 2 semester hours.
Principles of organization, management and financial analysis as applied to the practice of pharmacy. PREREQ: PPRA 5519

PADM 5556 Pharmacy Management II: 2 semester hours.
Problems of management, merchandising, and salesmanship, applied to community pharmacy. PREREQ: PHAR 5554

PADM 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

PADM 6601 Graduate Seminar in Pharmacy Administration: 1 semester hour.
Discussion of current research and theories in pharmacy administration. May be repeated

PADM 6603 Advanced Pharmacy Law: 3 semester hours.
Requirements of federal laws influencing the practice of pharmacy, including selected recent cases. PREREQ: PPRA 5519 or permission of instructor

PADM 6605 Research Methods in Pharmacy Administration: 3 semester hours.
Methods in research design and analysis utilized in pharmacy administration research. PREREQ: Graduate level statistics course

PADM 6610 Social and Behavioral Aspects of Pharmacy Practice: 3 semester hours.
Examination of sociological and psychological concepts and theories as applied to the practice of pharmacy. PREREQ: Permission of instructor

PADM 6612 Ethics for Health Professionals: 3 semester hours.
Examination of ethical issues that arise in the provision of health care. PREREQ: Permission of instructor

PADM 6624 Advanced Pharmacy Management I: 3 semester hours.
Principles of operation and management encountered in the drug distribution process. PREREQ: One year of accounting or permission of instructor

PADM 6626 Advanced Pharmacy Management II: 3 semester hours.
Case studies of problems encountered in pharmacy management. PREREQ: PADM 6624

PADM 6630 Advanced Drug Marketing: 3 semester hours.
Approaches and methods of marketing as applied to pharmacy and the drug distribution process

PADM 6632 Medical Economics: 3 semester hours.
Examination of the market forces encountered in the medical care system

PADM 6634 Advanced Pharmacy Administration I: 3 semester hours.
An integration of socio-behavioral and management principles into an advanced consideration of pharmacy administration

PADM 6635 Advanced Pharmacy Administration II: 3 semester hours.
A continuation of PADM 6634, this course further explores issues in the discipline of pharmacy administration

PADM 6649 Research in Pharmacy Administration: 1-2 semester hour.
Research problems ancillary to the thesis project. May be repeated. Graded S/U. PREREQ: Graduate standing and permission of instructor

PADM 6650 Thesis Research: 1-10 semester hour.
1-10 Credits. May be repeated. Graded S/U

PADM 6691 Topical Seminar in Pharmacy Administration: 2-4 semester hour.
Examination of selected topics in pharmacy administration. May be repeated

PADM 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Pharmacy Practice Courses
PPRA 5596 Clinical Pharmacy Residency: 0 semester hours.
Advance practical experience in clinical pharmacy practice. PREREQ: Must have a Doctor of Pharmacy degree
PPRA 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

PPRA 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

PHAR 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

PHAR 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Pharmacy Courses

PHAR 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

PHAR 6645 Pharmacotherapeutics for Advanced Practice Nurses: 3 semester hours.
A problem-based course emphasizing the fundamentals of drug action and the rational use of drugs to treat various organ system disease states. PREREQ: BIOL 5563

PHAR 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Counseling

Chair and Professor: Kleist
Associate Professors: Crews, Horn, Paulson
Assistant Professors: Coe-Smith, Moody, Stewart, Yates
Clinical Assistant Professor: Singarajah
Adjunct Associate Professor: Schmidt
Adjunct Assistant Professor: Tivis
Adjunct Instructor: Bolinger
Emeritus Faculty: Allen, Feit, Edgar, Lloyd

Department Mission Statement

The principle mission of the Department of Counseling is to prepare quality counselors for various settings in Idaho and the nation. More specifically, we seek to prepare quality School Counselors for public schools in K-12 settings, Clinical Mental Health Counselors and Marriage, Couple, and Family Counselors for community agencies and other mental health settings, and Student Affairs Counselors for working in college settings such as advising, residence halls, and career centers.

We prepare doctoral level counselor educators and supervisors to serve as faculty members in counselor education programs, counselor supervisors in various settings, doctoral level counselors, leaders in higher education and counseling organizations, and scholars.

We believe that it is also our mission to:

• instill a strong sense of professional identity in students;
• help students gain an appreciation of the rich knowledge base in counselor education;
• develop student expertise in the skills of counseling;
• aid students to become certified and/or licensed;
• aid students/graduates in their initial job placement;
• teach and perform research applicable to the practice of counseling; and
• aid students in understanding the diversity of views and cultures within our profession and the environment in which counselors practice.

The Department of Counseling also has a mission within the Division of Health Sciences, Kasiska School of Health Professions, which is to represent the mental health perspective within the Division and to consult with Division faculty and departments in encouraging a holistic perspective toward health care services.

Counselor Education

Graduate-level preparation for

1. counselors who seek employment in schools, universities, community mental health, and various other settings, and
2. college student affairs professionals.

Pre-Counseling and Pre-Student Affairs

Preparation should consist of a broad undergraduate course of study, including some work in psychology (learning and personality theory), sociology, and the communication skills. For those seeking positions in public elementary and secondary schools, state certification requirements should be considered.

Degree Programs

Degree programs offered by the department include Doctor of Philosophy, Educational Specialist, and Master of Counseling. Majors are available in Counselor Education and Counseling (Ph.D.); Counseling (Ed.S.); Marriage, Couple, and Family Counseling (M.Coun); Clinical Mental Health Counseling (M.Coun.); School Counseling (M.Coun.); and Student Affairs Counseling (M.Coun.).

Accreditation

The program for preparation of school counselors is accredited by the State of Idaho.

The Counselor Education programs are approved by the Council for Accreditation of Counseling and Related Educational Programs (CACREP) as follows: Marriage, Couple, and Family Counseling (M.Coun.), Clinical Mental Health Counseling (M.Coun.), School Counseling (M.Coun.), Student Affairs Counseling (M.Coun.), and Counselor Education and Counseling (Ph.D.).

Progression in Clinical Track Classes - Master's

Students who obtain lower than a 3.0 in any clinical track class OR withdraw from any clinical track class (i.e., COUN 6621 Professional Orientation and Ethics, COUN 6696 Practicum Counseling Techniques, COUN 6697 Practicum
in Counseling, COUN 6698 Internship in Counseling) can not continue taking Counseling classes the following semesters without petitioning and obtaining the approval of the Department of Counseling graduate faculty.

Departmental Dismissal Policies

Master's Degree Retention and Dismissal Policy
Department of Counseling faculty are confident that each student admitted has the potential to be successful in graduate study. To assure success, the student's major advisor plays an important role in giving feedback to the student.

A faculty member may consult with other Department of Counseling faculty regarding the apparent impediments to progress of an individual student. If other faculty have made similar observations, the major advisor, or other faculty member, will initiate a meeting with the student to discuss the perceived difficulty. Remedies and expected behavior changes will be discussed and outlined in verbal and/or written form.

If, after feedback is given, a student's impediments to progress are not remedied, the faculty may recommend dismissal from the program. Dismissal of a master's student will be subject to the following:

1. Dismissal criteria established by the Graduate School.
2. Dismissal from the program occurs if any one of the following conditions exist. Students earn:
   a. three final course grades lower than 2.7,
   b. OR six credits below 2.7,
   c. OR below a 3.0 GPA.
3. All degree-seeking students in the Department of Counseling will be evaluated every semester by the Department of Counseling graduate faculty members. Based on this evaluation, students who are not making satisfactory progress toward the completion of a degree may be:
   a. removed from graduate study,
   b. provided with an alternate option for graduate study, or
   c. placed on departmental probationary status. This evaluation will include progress on all course work, anticipated GPA, non-academic conditions (outlined in 4, 5, and 6 following) and any other concerns. Students will be notified of any of these actions by written and/or oral communication with the major advisor or the Department Chair.
4. Academic dishonesty includes, but is not limited to, cheating and plagiarism. Academic dishonesty at the graduate level is considered a serious offense and may result in dismissal from a graduate program. For the complete statement on academic dishonesty, please refer to the Graduate School "Academic Dishonesty" policy in this Catalog. More information on academic dishonesty is also available in the ISU Student Handbook (http://www.isu.edu/studenta/pdf/IdahoStateUniversityStudentHandbook.pdf) (Student Conduct).
5. An ethical violation is viewed by the faculty of the Department of Counseling as a serious offense and may result in dismissal from the program. The Department uses the latest edition of the ACA Code of Ethics. It is the student's responsibility to be knowledgeable and act in accordance of these standards. Refer to the current "Master of Counseling Graduate Program Handbook" for more information.
6. Admission into the Department of Counseling does not guarantee graduation. Success in academic coursework is only one component of becoming a successful counseling student. The following nonacademic conditions may result in dismissal if they are observed to impair the student's ability to work with others in class, practicum, or internship settings:
   a. personal concerns or psychopathology,
   b. personal attitudes or value systems that conflict with effective counseling relationships, and
   c. unethical behavior.

Doctoral Degree Retention and Dismissal Policy
Department of Counseling faculty are confident that each student admitted has the potential to be successful in graduate study. To assure success, the student's major advisor plays an important role in giving feedback to the student. A faculty member may consult with other Department of Counseling faculty regarding apparent impediments to progress of an individual student. If others have made similar observations, the major advisor, or other faculty member, will initiate a meeting with the student to discuss the perceived difficulty. Remedies and expected behavior changes will be discussed and outlined in verbal and/or written form.

If, after feedback is given, a student's impediments to progress are not remedied, the faculty may recommend dismissal from the program. Dismissal of a doctoral student will be subject to the following:

1. Dismissal criteria established by the Graduate School.
2. Dismissal from the program occurs if any one of the following conditions exist. Students earn:
   a. three final course grades lower than 2.7,
   b. OR six credits below 2.7,
   c. OR below a 3.0 GPA,
3. All degree-seeking students in the Department of Counseling will be evaluated every semester by the Department of Counseling graduate faculty members. Based on this evaluation, students who are not making satisfactory progress toward the completion of a degree may be:
   a. removed from graduate study,
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   c. placed on departmental probationary status. This evaluation will include progress on all course work, anticipated GPA, non-academic conditions (outlined in 4, 5, and 6 following) and any other concerns. Students will be notified of any of these actions by written and/or oral communication with the major advisor or the Department Chair.
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6. Admission into the Department of Counseling does not guarantee graduation. Success in academic coursework is only one component of becoming a successful counseling student. The following nonacademic conditions may result in dismissal if they are observed to impair the student’s ability to work with others in class, practicum, or internship settings:
   a. personal concerns or psychopathology,
   b. interpersonal relationship issues,
Doctor of Philosophy in Counselor Education and Counseling

The Doctor of Philosophy (Ph.D.) is the highest university award given in recognition of completion of academic preparation for professional practice in counseling. Candidates are provided primarily with courses and practicum/ internship experiences that will be instrumental in assisting them to function more effectively as professional counselor educators, as counseling practitioners, and as researchers.

Goals

The Doctor of Philosophy (Ph.D.) in Counselor Education and Counseling is designed to prepare counselor educators for work in counselor education programs and for work in supervisory roles in university counseling centers and other counseling sites. The major emphasis of this program is to prepare graduates for careers in university teaching in counseling programs.

Counselor education and counseling students at Idaho State University will be:

1. Prepared to teach courses in counseling skills and counseling theories.
2. Prepared to supervise counselors and counseling students who are providing individual counseling, group counseling, and couple and family counseling.
3. Prepared to teach selected courses in one or more of the CACREP major areas.
4. Prepared to teach selected courses in the general CACREP common core.
5. Prepared to evaluate counselor education programs and counseling sites.
6. Knowledgeable of professional issues in the counselor education and counseling fields.
7. Knowledgeable of ethical issues and practices of counselor education and counseling.
8. Experienced in developing and conducting research.
9. Experienced in writing for professional publication.
10. Experienced in the advisement and mentoring of Master of Counseling students.
11. Knowledgeable and skilled in providing advanced clinical counseling skills.
12. Knowledgeable of the sociological manifestations of cultural diversity.

Admission Criteria

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition, persons applying for admission to the doctoral program in Counselor Education and Counseling must meet the following criteria for selection. Applicants must have:

1. a master's degree from a CACREP accredited program and be licensed as a counselor in Idaho or a state with comparable requirements OR a master's degree in counseling and be a Nationally Certified Counselor and apply for an Idaho Counseling License upon admission to the doctoral program OR a master's degree in counseling, one year of full time post-master's degree counseling experience, graduate coursework curriculum requirements in all of the CACREP common core areas, and be a Nationally Certified Counselor or Idaho Licensed Counselor. (Persons who do not meet these requirements may be considered for admission as Classified (w/PR) while removing deficiencies in coursework and/or credentials.);
2. taken the Graduate Record Examination (GRE) or the Miller Analogies Test (MAT). Preference will be given to scale scores of 40 percentile or more;
3. a professional resume;
4. a one-page statement of post-doctoral career objectives;
5. submitted three (3) letters of recommendation;
6. completed both Idaho State University Graduate School and Department of Counseling application forms; and
7. completed an interview by the Department of Counseling Admissions Committee.

The Admissions Committee will make the final recommendation regarding admission. This decision will be based on grade point and test score ranking, as well as on the committee's impression of the applicant's interpersonal style and compatibility of personality with the program's training philosophy, and on the student's written statement.

Selection Schedule for Doctoral Study

Application forms will be available for download after August 15. The application can be found at http://www.isu.edu/hp/counsel/09phdapp.shtml. Applications must be postmarked by December 15. Selection of applicants for on-campus (ISU-Pocatello) interviews will be announced by early January. Notification of successful applicants for admission and alternates will be announced by approximately late January. A maximum of 5-6 students are admitted to the program each year (ISU-Pocatello, 4; ISU-Meridian, 2). Classes begin in the Fall semester of each year.

Master's Degree Curriculum Review

Doctoral students who have earned their master's degree from a CACREP accredited program will be assumed to have entry level knowledge in core and major course areas. Those not graduating from a CACREP accredited program will have their transcripts evaluated by a faculty committee to determine knowledge base deficiencies. A remediation plan of study will be developed and approved by the faculty as necessary.

Specialization Areas

Doctoral students will choose a prescribed program of study that develops counselor education specializations in the CACREP core and major areas.

The Area of Specialization will be approved by the faculty before the end of the first semester of doctoral study. The Area of Specialization must be completed prior to the scheduling of the final oral examination.

Admission to Candidacy

Each student demonstrating an adequate foundation for doctoral study, based upon the selection criteria and the master's degree curriculum review, may apply for degree candidacy. The application for candidacy will include:

1. A course of study designed to remove entry level deficiencies as indicated by the master's degree curriculum review;
2. An approved plan for completion of specialization areas in both core and major areas; and
3. An approved final program of study.

After receiving the written approval of the major professor and a second graduate faculty committee member from the department, the application may then be submitted to the department for approval and the appointment of a third departmental committee member. The fourth committee member is non-departmental graduate faculty selected from the Division of Health Sciences or the university at large. The fifth committee member is the Graduate Faculty Representative (GFR).
Comprehensive Examination

The comprehensive examination will address information in the coursework required in the doctoral program, counselor education professional issues, and specific areas identified by the candidate’s committee. If failed, the comprehensive examination may only be retaken once after one year of additional study.

Dissertation

After the student is admitted to degree candidacy, the dissertation proposal and preliminary research that the candidate and first two committee members have agreed upon will be presented to the complete five-member committee for recommendations and approval. Following the approval of the proposal and the completion of the comprehensive examination, the candidate is authorized to proceed with the dissertation in preparation for a final oral examination defense. The final defense is open to any member of the graduate faculty directing a request through the Dean of the Graduate School and the chair of the committee.

Residence

Following the bachelor’s degree, each applicant must complete the equivalent of ten semesters of graduate study including the master’s degree and three semesters of doctoral internship. At least six of the semesters must be at the doctoral level and four of these must be consecutive semesters (not including summer sessions) of full-time graduate study on campus. Students are strongly encouraged to attend all six of these semesters on a full-time basis.

Continuous Enrollment

Following admission to doctoral study, the student must register for course work, practicum, internship, independent study, or dissertation credit each semester until the completion of the degree.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COUN 7701</td>
<td>Advanced Statistics</td>
<td>2</td>
</tr>
<tr>
<td>COUN 7702</td>
<td>Advanced Research and Experimental Design</td>
<td>2</td>
</tr>
<tr>
<td>COUN 7703</td>
<td>Qualitative Research</td>
<td>2</td>
</tr>
<tr>
<td>COUN 7704</td>
<td>Qualitative Methodology and Analysis</td>
<td>2</td>
</tr>
<tr>
<td>COUN 7705</td>
<td>Instructional Theory for Counselor Educators</td>
<td>4</td>
</tr>
<tr>
<td>COUN 7710</td>
<td>Practicum in College Teaching</td>
<td>2</td>
</tr>
<tr>
<td>COUN 7712</td>
<td>Advanced Psychological Testing and Assessment</td>
<td>2</td>
</tr>
<tr>
<td>COUN 7724</td>
<td>Advanced Diversity Issues</td>
<td>3</td>
</tr>
<tr>
<td>COUN 7727</td>
<td>Advanced Theories of Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 7774</td>
<td>Advanced Group Procedures</td>
<td>3</td>
</tr>
<tr>
<td>COUN 7790</td>
<td>Supervision in Counselor Education</td>
<td>3</td>
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<tr>
<td>COUN 8800</td>
<td>Research and Professional Issues</td>
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<td>COUN 8801</td>
<td>Doctoral Career Development</td>
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<tr>
<td>COUN 8802</td>
<td>Scholarship in Counselor Education</td>
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<td>COUN 8848</td>
<td>Doctoral Counseling Practicum</td>
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<td>COUN 8848L</td>
<td>Doctoral Counseling Practicum Lab</td>
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<tr>
<td>COUN 8849</td>
<td>Doctoral Internship</td>
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<tr>
<td>COUN 8849L</td>
<td>Doctoral Internship Lab</td>
<td>0</td>
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<tr>
<td>COUN 8850</td>
<td>Dissertation</td>
<td>1-12</td>
</tr>
</tbody>
</table>

Suggested Electives

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COUN 7723</td>
<td>Advanced Vocational Theory</td>
<td>3</td>
</tr>
<tr>
<td>COUN 7758</td>
<td>Independent Problems</td>
<td>1-4</td>
</tr>
<tr>
<td>COUN 7775</td>
<td>Advanced Practicum in Group Counseling</td>
<td>2</td>
</tr>
</tbody>
</table>

Educational Specialist Degree

Education Specialist in Counseling

The Ed.S. program is designed for persons who have completed a master's degree in counseling and wish to increase their skill s for advanced certification requirements or other professional objectives.

Admission Requirements

The applicant must:

1. Hold a master’s degree in counseling from a CACREP accredited school counseling program or equivalent CACREP course work.
2. Submit Graduate School application forms and application fee.
3. Submit departmental application form and application fee by specified application date.
4. Submit three (3) letters of recommendation; two (2) letters must be from Department of Counseling faculty who agree to serve on the graduate committee.
5. Have a minimum of two (2) years of work experience as a school counselor (post-master’s), and be currently employed as a certified school counselor.
6. Be recommended for admission by the Department of Counseling Admissions Committee.

Degree Requirements

The student must complete a minimum of 70 credit hours of course work (including the master’s degree) and a case study. All post-master’s degree course work must be approved in advance by Department of Counseling faculty. A minimum grade point average of 3.0 is required over all course work taken in the Ed.S. program. An oral examination is required that involves the presentation of a case study and demonstration of advanced counseling skills.

Major Requirements

At the post-master's degree Ed.S. level, all course work must be in Counseling-related areas and must include:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLP 5501</td>
<td>Foundations of Human Resource Development</td>
<td>3</td>
</tr>
<tr>
<td>COUN 6693</td>
<td>Supervision of Counselors</td>
<td>1</td>
</tr>
<tr>
<td>COUN 6694</td>
<td>Psychodiagnosis and Psychotropic Drugs</td>
<td>3</td>
</tr>
<tr>
<td>COUN 7723</td>
<td>Advanced Vocational Theory</td>
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</tr>
<tr>
<td>COUN 7759</td>
<td>Ed.S Internship</td>
<td>3</td>
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</tbody>
</table>

Total Hours: 13

Educational Specialist Case Study

The case study presented during the oral examination reflects (both in written and video form) advanced counseling skills and theoretical orientation. It reflects therapeutic goals, client themes and counseling techniques necessary to facilitate client growth.

Time Requirement

All requirements for the Ed.S. must be completed within a period of seven (7) years from the date of completion of the first post-master's degree course to be applied toward the degree.
Master of Counseling in Marriage, Couple, and Family Counseling, Clinical Mental Health Counseling, School Counseling, or Student Affairs Counseling

Goals

The general objective of the Master of Counseling (M.Coun.) degree is to prepare students to be professional counselors. The Department of Counseling faculty believe that the development of a strong professional identity, a rich knowledge base, and expertise in the skills of counseling are essential to functioning as a professional in each counseling setting.

The Master of Counseling degree is designed to be the strong foundation upon which graduates enter a lifetime career in the helping professions. This program prepares counselors to respond to the multitude of societal changes, and to the ever-expanding counseling profession. In addition to knowledge and experience in the following eight common-core areas, graduates also have specialized knowledge and skills as identified in the objectives of the Marriage, Couple, and Family Counseling, Clinical Mental Health Counseling, School Counseling, and Student Affairs Counseling majors.

Curricular Objectives

1. Students will have knowledge of Human Growth and Development in order to understand the nature and needs of persons at all developmental levels and in multicultural contexts.
2. Students will have knowledge of Social and Cultural Foundations to be effective in a multicultural and diverse society.
3. Students will be knowledgeable and skillful in Counseling and Consultation processes.
4. Students will be knowledgeable about group development, dynamics, counseling theory, group counseling methods, and group work approaches.
5. Students will be knowledgeable and understand career development and related factors.
6. Students will understand and be knowledgeable about individual and group approaches to assessment and evaluation.
7. Students will be knowledgeable about various research methods and statistical analysis needs assessment and program evaluation.
8. Students will be knowledgeable about the profession of counseling including history, organizational structures, ethics, standards, and credentialing.

Student Professional Objectives:

In addition to the above curricular objectives, the Department of Counseling has program-wide objectives. These include:

1. School counseling students will obtain certification as school counselors.
2. Students in all majors (Clinical Mental Health Counseling, Marriage Couple and Family Counseling, School Counseling, and Student Affairs Counseling) will obtain the appropriate state licensure as professional counselors.

Admission Requirements

Admission into the counseling program is competitive. A preset number of students will be admitted, according to faculty resources. The Admissions Committee will make the final recommendation regarding admission based on grade point and test score rankings, as well as on the committee’s impression of the applicant’s interpersonal style and compatibility of personality with the program’s training philosophy, and on the student’s written statement.

The student must apply to, and meet all criteria for, admission to the Graduate School inclusive of the submitting of the Graduate School application forms and application fee. In addition, the applicant must:

1. Have a bachelor’s degree from an accredited college or university in the United States, or its equivalent from a school in another country. (Must complete degree before onset of classes in the Fall semester in year of acceptance.) NOTE: Preference will be given to those applicants who meet both GPA and GRE/MAT criteria. The Graduate School does consider requests by the department to waive either the GPA or the GRE/MAT so applicants are eligible to apply for admission if they meet one of the two criteria.
2. Prospective students are expected to come to campus (Pocatello or Boise) for an interview. Selected applicants will be interviewed by the Department of Counseling Admissions Committee as part of the admissions procedure. Ultimately, a student’s GPA and test scores qualify the student to take part in the interview process. Students are generally selected for admission based on the interview.
3. Submit three (3) letters of recommendation from individuals who have knowledge of the applicant’s academic capabilities, work performance, professional potential, and character.
4. Submit departmental application forms and application fee.
5. Read and sign the Department of Counseling Conditions for Admission/Retention/Dismissal form.

Only applicants who have submitted all application materials on or before the application deadline will have their material reviewed by the Admissions Committee to determine status as a competitive, qualified applicant (incomplete, late, or inaccurate files/forms will not be reviewed). Due to the competition for limited seats in the Master of Counseling program, satisfactory completion of the entry level requirements does not guarantee acceptance.

Selected applicants will be interviewed by the Department of Counseling Admissions Committee as part of the admissions procedure.

Selection Schedule

After August 15, application forms are available for download at http://www.isu.edu/hpcounsl.

ISU-Pocatello
Application review begins January 15, and continues until all seats are filled.

ISU-Meridian
Application review begins January 15 and continues until all seats are filled. Interviews are tentatively scheduled for early February. Notification of admission decisions will be announced approximately mid-February. A maximum of 20-25 students are admitted to the Master of Counseling program each year at ISU-Pocatello. Classes begin the fall semester of each year.

ISU-Meridian
Application review begins January 15 and continues until all seats are filled. Interviews are tentatively scheduled for mid-February. Notification of admission decisions will be announced approximately April 1. A maximum of 10-12 students are admitted to the Master of Counseling program each year at ISU-Meridian. Classes begin the fall semester of each year.

If the January 15 deadline has passed, please contact the Department of Counseling. A secondary admission process may be conducted.

Classified w/Performance Requirements Status

Students who meet the undergraduate grade point average of 3.0 or higher for all upper division undergraduate classes but have not received their scores for the GRE or MAT or are registered to take one of these examinations at the next possible testing may be admitted Classified (w/PR) status, and may be considered
for openings not filled by Classified applicants in the Department of Counseling program.

Students must request a change of status from Classified (w/PR) status to Classified status upon completion of their first semester of graduate study. The change from Classified (w/PR) to Classified status must be approved by the Department of Counseling and the Dean of the Graduate School.

Unclassified Status
Unclassified (non-degree seeking) status can only be used by students who have completed a master’s degree in a helping profession and who agree in writing that they are taking elective courses for continuing education credit.

Approval of Master's Degree

Final Program of Study
A student who has been admitted to the Master of Counseling (M.Coun.). Program may submit a final program of study following the completion of COUN 6621 Professional Orientation and Ethics, COUN 6627 Conceptualizing Counseling Theory, COUN 6696 Practicum Counseling Techniques and during the semester in which COUN 6697 Practicum in Counseling is being completed. The final program of study must include all course work required to complete the selected M.Coun. major and must be approved by two counseling faculty members who have graduate faculty status (one of whom will serve as committee chair). Prior to the semester of the proposed graduation, the final program of study must receive the approval of a majority of the Counseling graduate faculty.

General Requirements
For the Master of Counseling (M.Coun.) degree the student is required to complete the equivalent of at least four full semesters of resident graduate study beyond the bachelor's degree. For the Clinical Mental Health Counseling, Marriage, Couple, & Family Counseling, School Counseling, and Student Affairs Counseling majors, a minimum of 60 semester hours must be completed in the Core and Major Course Requirements.

Core Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>COUN 6611</td>
<td>Applied Statistics and Research</td>
<td>3</td>
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<tr>
<td>COUN 6612</td>
<td>Psychological Testing for Counselors</td>
<td>2</td>
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<tr>
<td>COUN 6621</td>
<td>Professional Orientation and Ethics</td>
<td>2</td>
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<td>COUN 6623</td>
<td>Lifestyle and Career Development</td>
<td>2</td>
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<tr>
<td>COUN 6624</td>
<td>Cultural Counseling</td>
<td>2</td>
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<tr>
<td>COUN 6625</td>
<td>Crisis Interventions and Trauma Counseling</td>
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<td>COUN 6627</td>
<td>Conceptualizing Counseling Theory</td>
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<td>COUN 6628</td>
<td>Applications of Counseling Theory</td>
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<td>COUN 6630</td>
<td>Addictions Counseling</td>
<td>2</td>
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<td>COUN 6660</td>
<td>Theories of Family and Couple Counseling</td>
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<td>COUN 6676</td>
<td>Small Group Activity</td>
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<td>COUN 6677</td>
<td>Group Counseling Techniques</td>
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<td>COUN 6694</td>
<td>Psychodiagnosis and Psychotropic Drugs</td>
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<td>COUN 6696</td>
<td>Practicum Counseling Techniques</td>
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Major Course Requirements

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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>COUN 6661</td>
<td>Issues in Family Counseling</td>
<td>3</td>
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<tr>
<td>COUN 6664</td>
<td>Family Assessment</td>
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<tr>
<td>COUN 6665</td>
<td>Advanced Family Systems Theory</td>
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<td>COUN 6697</td>
<td>Practicum in Counseling</td>
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<td>COUN 6697L</td>
<td>Practicum in Counseling Lab</td>
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<tr>
<td>COUN 6698</td>
<td>Internship in Counseling</td>
<td>18</td>
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</table>

Requirements for the Idaho Counseling License

The Idaho Counseling License requirements include:

1. Master's degree in a counseling major (any one of the four M.Coun. majors meets this requirement),
2. 60 graduate credits in a planned counseling program (including the courses in one of the M.Coun. majors),
3. 1000 hours of counseling experience supervised by an approved supervisor listed on the Idaho Board of Occupational Licenses-Counselor and Therapist website (including the hours received as part of a M.Coun. program), and
4. A passing score on the Idaho Counseling License Examination (or the National Board for Certified Counselors Examination).

Courses

**COUN 5550 Peer Counseling Seminar: 1-2 semester hour.**
Supervised experience in assisting another student. Students meet out of class on a weekly contact basis. Course provides ongoing training for the peer counselors. May be repeated up to 6 credits. PREREQ: Permission of instructor

**COUN 5584 Guidance Principles and Practices: 3 semester hours.**
Survey of the various guidance practices in secondary education. Each service is discussed from the point of view of its role in the total educational program.

**COUN 5585 Independent Problems: 1-2 semester hour.**
Individual work under staff guidance. Field and/or library research on specific educational problems of interest to majors in education. Experience in research composition. May be repeated. PREREQ: Permission of instructor
COUN 5591 Seminar: 1-3 semester hour.
Critical analysis of the literature in one or more areas. Limited enrollment. May be graded S/U or on a letter-grade basis in separate sections. May be repeated up to 8 credits. PREREQ: Permission of instructor

COUN 5594 Elementary School Guidance: 2 semester hours.
Study of (1) the function of guidance in relation to children's needs; (2) principles and techniques of elementary school guidance; (3) analysis of representative programs of guidance in the elementary schools; and (4) research related to elementary school guidance and resulting trends

COUN 5597 Prof Ed Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. Must be graded S/U

COUN 5598P Prof Development Workshop: 3 semester hours.
New methods and opportunities to enhance and supplement skills. Subject to the approval of the Dean of the student's college, a maximum of eight credits earned in workshops may be applied toward a degree; students taking the courses only for personal development may choose the 0-credit option; those seeking professional development must choose a for-credit option

COUN 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

COUN 6606 Family Violence: 2 semester hours.
Delineates the implications for assessment and treatment of the family with violence. Topics of physical abuse, sexual abuse and psychological/emotional abuse of adults and children within a family structure will be addressed. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6607 The Family and Mental Illness: 2 semester hours.
Addresses therapeutic and community support that enhances the family unit as the primary care system. Mental illness as it relates to the family system is presented. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6608 The Family and Chemical Dependency: 2 semester hours.
Addresses family systems under the influence of addictions with primary emphasis on alcohol dependency. Models and patterns of addictions will be examined. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6609 The Family and the Aged: 2 semester hours.
Emphasizes the impact of aging on family systems from an economic, emotional, social, spiritual, and physiological perspective. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6611 Applied Statistics and Research: 3 semester hours.
Basic understanding of applied statistics. Procedures for designing, interpreting, critiquing, and presenting professional research. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6612 Psychological Testing for Counselors: 2 semester hours.
An overview of the standardized tests most commonly used by counselors. In addition to learning the underlying concepts of standardized testing, students will also be taught how to select and use tests appropriate to their proposed work settings. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6613 Basic Projective Techniques: 2 semester hours.
Projective theory and its relationship to psychoanalysis, dynamic theory, and learning theory. Techniques including problems of clinical practicality, prediction of behavior, and personality assessment. Practical experiences available in laboratory courses. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6619 Individual Intelligence Testing: 3 semester hours.
Supervised practice in administering, scoring, and interpreting the results of individual intelligence tests. Each section limited to 6 students. PREREQ: Admission to Master of Counseling Program, COUN 6612 or permission of instructor

COUN 6621 Professional Orientation and Ethics: 2 semester hours.
Introduction to profession of counseling: history, accreditation, licensure, organizational structure, advocacy, and use of technology. Ethical problems in counseling with specific attention given to the American Counseling Association Code of Ethics. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6622 Lifestyle and Career Development: 2 semester hours.
Career development theories and decision-making models for counselors including career resources and materials. PREREQ and COREQ: Admission to the Master of Counseling Program, COUN 6621 and COUN 6696 or permission of instructor

COUN 6624 Cultural Counseling: 2 semester hours.
Students will explore the roles of minority groups, gender, age and other factors influencing adjustment in a pluralistic society. PREREQ: Admission to the Master of Counseling Program. COREQ: COUN 6621 and COUN 6696 or permission of instructor

COUN 6625 Crisis Interventions and Trauma Counseling: 2 semester hours.
Current information, skills, and strategies for counseling interventions specific to crises, disasters, and other trauma-causing events. Topics include: triage, assessment and diagnosis, individual and community resiliency, emergency preparedness, multicultural considerations, interagency cooperation, and "psychological first aid." PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6627 Conceptualizing Counseling Theory: 2 semester hours.
The conceptual study of selected counseling theories related to historical development, personality development, client maturation, and learning theory. PREREQ: Admission to the Master of Counseling program or permission of instructor

COUN 6628 Applications of Counseling Theory: 2 semester hours.
The applied study of selected counseling theories with emphasis on the evolution of maladjustment, process of change, and appropriate interventions for generating change. PREREQ: Admission to the Master of Counseling program, COUN 6627, or permission of instructor

COUN 6630 Addictions Counseling: 2 semester hours.
Acquaint students with current theories of addiction, recovery, and relapse prevention as well as effective strategies and techniques in working with clients with addictions. The course will explore public policies on local, state, and national levels with regard to addiction services. PREREQ: Admission to the Master of Counseling program or permission of instructor

COUN 6638 Foundations of School Counseling: 3 semester hours.
An introduction to the school counseling profession, developmental program models and the roles of the professional school counselor. Special focus will be placed on current literature, cultural considerations, philosophical assumptions, key concepts, techniques, practical applications, recent legislation, and consultation. PREREQ: Admission to the Master of Counseling Program or permission of instructor
COUN 6639 Application of School Counseling Foundations: 3 semester hours. This school counseling class prepares students to identify and work with specific populations of youth-at-risk and their communities. Special focus will be placed on current literature, cultural considerations, philosophical assumptions, key concepts, techniques, and practical applications for the K-12 school counselor. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6650 Thesis: 1-9 semester hour. Thesis Credit. 1-9 credits. May be repeated. Graded S/U. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6651 Masters Paper: 3 semester hours. A paper involving extensive familiarity with research findings written under the supervision of a faculty member in the department. May be repeated. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6652 Specialist Paper: 3 semester hours. A paper involving extensive familiarity with research findings under the supervision of a faculty member of the department. May be repeated. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6658 Independent Problems: 1-3 semester hour. Individual work under staff guidance. Field and/or library research on specific educational problems. Experience in research composition. May be repeated up to 6 credits. PREREQ: Admission to the Master of Counseling Program or the Ph.D. in Counselor Education and Counseling Program or the Ed.S. in Counseling Program or permission of instructor

COUN 6659 Seminar: 1-3 semester hour. Critical analysis of the literature in one or more areas of education. Enrollment limited. May be repeated up to 8 credits. PREREQ: Permission of instructor

COUN 6660 Theories of Family and Couple Counseling: 3 semester hours. The study of the development of the family counseling field and the issues and theories related to its practice. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6661 Issues in Family Counseling: 3 semester hours. Examination of the effects of violence, issues of sexuality, and issues related to parenting place on family dynamics and family counseling. PREREQ: Admission to the Master of Counseling program or permission of instructor

COUN 6664 Family Assessment: 2 semester hours. Introduction to family assessment models and instruments as well as evaluation of programs/ agencies providing family counseling. PREREQ or COREQ: Admission to the Master of Counseling Program, COUN 6660, or permission of instructor

COUN 6665 Advanced Family Systems Theory: 2 semester hours. Advanced theoretical study with emphasis on researched applications of family counseling. PREREQ: Admission to the Master of Counseling Program, COUN 6660 or permission of instructor

COUN 6669 Family and Couple Counseling Practicum: 3 semester hours. Practicum experience counseling families and couples. Graded S/U. PREREQ: Admission to the Master of Counseling Program, COUN 6660, COUN 6663, COUN 6697 or permission of instructor

COUN 6670 Small Group Activity: 1 semester hour. Designed to give direct experiences as a group participant and provide preparation for COUN 6677. Graded S/U. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6677 Group Counseling Techniques: 3 semester hours. Essential research, selected group development and therapy theories, leadership orientations and strategies, structural group dynamics, and applications. Skills development in a laboratory setting. PREREQ: Admission to the Master of Counseling Program, COUN 6676, COUN 6696 or permission of instructor

COUN 6680 Foundations of Student Affairs: 3 semester hours. History, philosophy, purpose, and function of student affairs practice including review of "The Student Personnel Point of View," theories of student development, and current trends. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6683 Administration of Student Affairs Practice: 3 semester hours. Leadership and management theories and practice in higher education and student services. Essential research, consultation, good practices, and assessment techniques for all student populations and services. PREREQ: Admission to the Master of Counseling Program, COUN 6680 or permission of instructor

COUN 6687 Field Work in Personnel Services: 1-2 semester hour. Observation and learning the duties performed by the persons in the field work setting. A combination of fifty hours of experience and supervision equals one hour of academic credit. May be repeated. Graded S/U. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6689 Internship in Student Personnel: 3-12 semester hour. A combination of fifty hours of experience and supervision equals one hour of academic credit. May be repeated. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6690 Foundations of Clinical Mental Health Counseling: 2 semester hours. Orientation to the professional foundation of clinical mental health counseling for individuals, couples, and families across the lifespan. Topics include history and philosophy, ethics, professional roles and functions, professionalism, community systems and mental health, identity, and diversity within clinical mental health counseling. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6691 Professional Issues in Clinical Mental Health Counseling: 2 semester hours. This course will provide current information and strategies for counseling issues specific to clinical mental health counseling. Topics include advocacy, public policy, administration and finance, and practice privileges. PREREQ: Admission to the Master of Counseling Program, COUN 6690, or permission of instructor

COUN 6692 Continuum of Care in Clinical Mental Health Counseling: 2 semester hours. The course will address philosophical and contextual elements of clinical mental health counseling. Topics include the wellness model, prevention, diagnosis in context, treatment modalities, delivery systems, and best practices for clinical mental health counselors. PREREQ: Admission to the Master of Counseling Program or permission of instructor

COUN 6693 Supervision of Counselors: 1 semester hour. The study of current practices used in the clinical supervision of counselors. Current literature will be reviewed as well as standards for supervision which have been established by accrediting bodies and professional associations. PREREQ: Admission to the Master of Counseling Program or the Ed.S. in Counseling Program or permission of the instructor

COUN 6694 Psychodiagnosis and Psychotropic Drugs: 3 semester hours. Psychological classification systems, mental status evaluations, and the use of psychotropic drugs in treatment programs. PREREQ: Admission to the Master of Counseling Program, COUN 6621 and COUN 6696 or permission of instructor

COUN 6696 Practicum Counseling Techniques: 3 semester hours. The study and practice of counseling techniques including micro-counseling and role-playing. PREREQ: Admission to the Master of Counseling Program
COUN 6697 Practicum in Counseling: 2 semester hours.
Supervised counseling experience. A combination of fifty hours of experience and supervision equals one hour of academic credit. Each section limited to 5 students. May be repeated to four credits. PREREQ: Admission to the Master of Counseling Program, COUN 6696 or permission of instructor. COREQ: COUN 6697L

COUN 6697L Practicum in Counseling Lab: 0 semester hours.
Group supervision of students working in the field during their internship experience. Supervision is provided on a weekly basis and thus the units of instruction are devised as tutorial experience based on the student's developmental needs. Graded S/U. PREREQ: Admission to the Master of Counseling Program. COREQ: COUN 6697

COUN 6698 Internship in Counseling: 1-18 semester hour.
A combination of fifty hours of experience and supervision equals one hour of academic credit. May be repeated for a maximum of 18 credits. PREREQ: Admission to the Master of Counseling Program, COUN 6698

COUN 6698L Internship in Counseling Lab: 0 semester hours.
Group supervision of students working in the field during their internship experience. Supervision is provided on a weekly basis and thus the units of instruction are devised as a tutorial experience based on the student's developmental needs. Graded S/U. PREREQ and COREQ: Admission to the Master of Counseling Program, COUN 6698

COUN 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated. PREREQ: Admission to the Master of Counseling Program, the ED.S. in Counseling Program, or the Ph.D. in Counselor Education and Counseling Program or permission of instructor

COUN 7701 Advanced Statistics: 2 semester hours.
Statistical application appropriate for doctoral research and writing. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

COUN 7702 Advanced Research and Experimental Design: 2 semester hours.
Quantitative methods of conducting research in doctoral study. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

COUN 7703 Qualitative Research: 2 semester hours.
Explores and contrasts philosophical assumptions of qualitative and quantitative research. Various methodologies and approaches to qualitative research are reviewed and applications discussed. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

COUN 7704 Qualitative Methodology and Analysis: 2 semester hours.
Design, data collection, analysis and writing qualitative research. Practice using data collection procedures, traditional analytic methods and qualitative data processing programs for coding and matrix construction. Emphasizes grounded theory approach. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

COUN 7705 Instructional Theory for Counselor Educators: 4 semester hours.
Instructional theory and methods relevant to counselor education including models and methods of appraisal. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

COUN 7710 Practicum in College Teaching: 2 semester hours.
Observation of and assisting in the teaching and evaluation of a college course under the supervision of the course instructor. The student will prepare and deliver at least five lectures which will be observed by the instructor and will, in addition to observing the balance of the course, meet individually with the instructor for periodic discussions of procedure and methodology. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

COUN 7712 Advanced Psychological Testing and Assessment: 2 semester hours.
Advanced psychological testing concepts, test administration, test construction and interpretation. Advanced information of standardized tests commonly used in the counselor education field. PREREQ: COUN 6612 or permission of instructor

COUN 7723 Advanced Vocational Theory: 3 semester hours.
Theory of vocational development, sociological aspects of vocational choice and entry, development of interests and aspiration levels, and research relating to entry into work, satisfaction in work, dissatisfaction in topics. Course is structured around the major theories of vocational development as they relate to individual development. Various approaches to vocational testing are included. PREREQ: COUN 6623

COUN 7724 Advanced Diversity Issues: 3 semester hours.
Pedagogy relevant to current social and cultural issues. Role of diversity issues in counselor education, supervision, and counseling. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

COUN 7727 Advanced Theories of Counseling: 3 semester hours.
Analysis of various counseling theories and their relationships to specific philosophies concerning humanity. PREREQ: COUN 6627 and COUN 6697

COUN 7758 Independent Problems: 1-4 semester hour.
Individual work under staff guidance. Field and/or library research on specific educational problems. Experience in research composition. May be repeated up to 8 credits. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

Placement in a post-master's degree counseling setting. A combination of fifty hours of experience and supervision equals one hour of academic credit. May be repeated. 1-9 credits. PREREQ: Admission as an Ed.S. student and permission of instructor

COUN 7774 Advanced Group Procedures: 3 semester hours.
Advanced group leadership theory and techniques. PREREQ: COUN 6677

COUN 7775 Advanced Practicum in Group Counseling: 2 semester hours.
Fifty hours of group counseling as the group facilitator, plus a coordinating seminar. Includes the theoretical basis for group leaders and development of group leadership skills. PREREQ: COUN 6677 and permission of instructor

COUN 7790 Supervision in Counselor Education: 3 semester hours.
Analysis of systems for conducting supervision of counseling students including various models of supervision and their implementation in Practicum and Internship. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

COUN 8800 Research and Professional Issues: 1 semester hour.
Critical analysis of the literature in counselor education including topics such as program models, current research, and professional associations. May be repeated up to 3 credits. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

COUN 8801 Doctoral Career Development: 1 semester hour.
Implementation of Career Theory into Professional Development plans for advancement in Counselor Education. PREREQ: Admission to the Ph.D. Program in Counselor Education and Counseling Program

COUN 8802 Scholarship in Counselor Education: 1 semester hour.
Developing a scholarly identity and research agenda within counselor education and supervision. Course will focus on creating and submitting publishable manuscripts; developing grant writing skills; navigating the academic public process; and, enhancing writing quality and productivity. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program
COUN 8848 Doctoral Counseling Practicum: 3 semester hours.
Counseling under supervision and an intensive examination of the student’s own counseling philosophy and its relationship to client behavioral and attitudinal change. A combination of fifty hours of experience and supervision equals one hour of academic credit. Each section limited to 5 students. PREREQ: COUN 7727 and permission of instructor

COUN 8848L Doctoral Counseling Practicum Lab: 0 semester hours.
Group supervision of student working in the field during their doctoral practicum supervision. Supervision is provided on a weekly basis and thus the units of instruction are devised as a tutorial experience based on the student's developmental needs. Graded S/U. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

Dietetics

Dietetic Programs
Director: McKnight
Assistant Professors: Blanton, Weeden
Clinical Faculty: Grim, McKnight, Schneider
Adjunct Faculty: Hilvers, Vance
Professor Emeritus: Dundas

The two Dietetic Programs at Idaho State University are undergraduate and post-baccalaureate. Though no graduate degree is offered in Nutrition nor Dietetics, there are several courses available to take for graduate credit once the prerequisites have been met. Dietetics has two graduate faculty who are available to work on theses with a nutrition focus.

Courses

NTD 5509 Professional Readings: 1-3 semester hours.
Identification and investigation of conceptual ideas about the relationship of programs, trends, legislation, and developments in food and nutrition. 1-3 credits. May be repeated. PREREQ: Permission of instructor

NTD 5539 Sports Nutrition: 3 semester hours.
Nutrition recommendations for competitive and recreational athletic performance. Rationale for nutrition practices through an examination of individual nutrient metabolism. Controversies and misinformation addressed. Equivalent to CFS 5539. SUGGESTED PREREQS: NTD 2239 or equivalent or permission of instructor

NTD 5557 Experimental Foods: 3 semester hours.
Development of experimental methods and their application to cookery and food technology; preparation of student for independent investigation in foods; acquaintance with literature in the field. Two hours lecture/four hours laboratory. SUGGESTED PREREQ: NTD 1104 or equivalent or permission of instructor

NTD 5561 Nutritional Biochemistry I: 3 semester hours.
Advanced study of nutrition science, including protein, carbohydrate, lipid, vitamin, and mineral metabolism. Introduction to research methodology and professional literature. Equivalent to CFS 5561. SUGGESTED PREREQS: NTD 2239, CHEM 1101, CHEM 1102 and CHEM 1103 or higher levels of chemistry including inorganic, organic, and biochemistry or permission of instructor

COUN 8849 Doctoral Internship: 1-18 semester hour.
Placement in a doctoral level counseling or counselor education setting. A combination of fifty hours of experience and supervision equals one hour of academic credit. 1-18 credits. May be repeated. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

COUN 8849L Doctoral Internship Lab: 0 semester hours.
Group supervision of student working in the field during their doctoral internship experience. Supervision is provided on a weekly basis and thus the units of instruction are devised as tutorial experience based on the student's developmental needs. Graded S/U. PREREQ: Admission to Ph.D. in Counselor Education and Counseling Program

COUN 8850 Dissertation: 1-12 semester hour.
Variable credits. May be repeated. Graded S/U. PREREQ: Admission to PH.D. in Counselor Education and Counseling Program

NTD 5581 Special Problems in Nutrition and Dietetics: 1-2 semester hour.
Students select problems on the basis of special needs, interests, or abilities and work on them independently in the laboratory, library, or community, with regular conferences with the advisor. PREREQ: Permission of instructor

NTD 5585 Nutritional Biochemistry II: 3 semester hours.
Human metabolism in health and disease. Emphasizes interrelationships among hormones, carbohydrates, proteins, lipids, vitamins and minerals within tissues and organs. SUGGESTED PREREQS: NTD 4461 or NTD 5561 or permission of instructor

NTD 5591 Special Problems in Nutrition and Dietetics I: 1-2 semester hour.
Students select problems on the basis of special needs, interests or abilities, and work on them independently in the laboratory, library, or community with regular conferences with the advisor. May be repeated. PREREQ: Permission of instructor

NTD 5562 Maternal Infant and Child Nutrition: 2 semester hours.
Advanced study of nutrition in human growth and development during pregnancy, lactation, infancy, childhood, adolescence. Therapeutic nutritional management of diseases specific to pregnancy, infancy, and childhood are addressed
Exploration of the physiological, psychosocial, and chronic degenerative conditions associated with aging and the nutritional implications of each. Epidemiological basis for setting dietary goals and program development to support the nutritional needs of the elderly is addressed.

This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

**Health Care Administration**

**Health Care Administration Program**

Program Director and Assistant Professor: Hermanson

Associate Professor: Farnsworth

(No Graduate Degrees Offered)

**Courses**

**HCA 5530 Special Topics in Healthcare: 1-3 semester hour.**
Topics relevant to health professionals. May be repeated for up to 9 credits with different titles or content. Graded S/U

**HCA 5553 Healthcare Finance: 3 semester hours.**
The application of financial management principles, practices, and techniques used in healthcare organizations. An understanding and analysis of how these financial tools are used in decision making and how they are integrated into the healthcare organization's planning process. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: ACCT 2202 and FIN 3315 or equivalent

**HCA 5565 Health Care Operations and Quality: 3 semester hours.**
This capstone course in health care administration addresses the application of managerial concepts and practices within various health care environments, including acute, ambulatory, mental health, and long term care organizations. Topics include issues/trends and best practices related to governance, leadership, management; planning and marketing; quality assessment/operations improvement; and maximizing human resources and financial performance. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

**HCA 5573 Marketing for Health Care Organizations: 3 semester hours.**
Introduction to basic marketing management issues as they pertain to healthcare. Current marketing trends in the health care marketplace. Consumer orientation, health care marketing plans, and strategy development. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

**HCA 5575 Health Law and Bioethics: 3 semester hours.**
This course develops a roadmap to facilitate risk management in the provision of healthcare services. Issues addressed include regulation and licensure, liability, selected aspects of public programs, and ethical issues regarding death, reproduction, and research. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

**HCA 5595 Administrative Internship: 4 semester hours.**
During the internship experience, students work in a health or human services organization, performing various duties and being exposed to various aspects of managerial careers in health services management. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: HCA emphasis and permission of HCA department chair

**HCA 5599 Experimental Course: 1-6 semester hour.**
This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**HCA 6615 Health Services Management: 3 semester hours.**
Determination and fulfillment of mission, plans, and structure, motivating individuals, and managing activities to support people in their work and in the achievement of their goals

**HCA 6620 Economics and Reimbursement: 2 semester hours.**
In-depth synthesis of the insurance and reimbursement practices in today's healthcare environment, and the economic foundations upon which they are based

**HCA 6625 Healthcare Law and Bioethics: 3 semester hours.**
Comprehensive coverage of legal issues and the ethical implications of the law as applied to regulation and licensure, health care financing. Medicare and Medicaid, health care reform, and other relevant current issues

**HCA 6630 Financial Management: 3 semester hours.**
The application of financial management principles, practices, and techniques used in healthcare organizations. Financial tools as decision making, strategy, and planning tools

**HCA 6635 Healthcare IT and Quality: 2 semester hours.**
Healthcare IT management framework, hardware and software, project management, and the collection, use, security of health information, external accreditation processes, and internal quality improvement programs

**HCA 6640 Healthcare Policy: 2 semester hours.**
The formulation of priorities, development of legislation, implementation of legislative provisions through administrative action, and their effect on population health

**HCA 6645 Strategic Management: 3 semester hours.**
An integration of the principles of organization management, finance, and marketing. Market analysis and positioning including strategic planning and new program development. The leader's role in strategy formulation and implementation

**HCA 6651 Masters Project: 1-3 semester hour.**
Under the guidance of a supervising committee, each student will conduct an in-depth project specific to a current issue or problem in healthcare management. Written documentation and an oral defense of the project are required. Must be taken for three credits the first time this course is taken. May be repeated for variable credit thereafter. 1 to 3 credits. Graded S/U

**HCA 6660 Applied Research: 3 semester hours.**
Students will develop the knowledge and skills needed to investigate and address important issues in health organizations using the methods of health services research, as well as to effectively use and evaluate the published literature. How to identify and define a question that is researchable, appropriately use primary and secondary data, choose and execute appropriate research designs, and select and apply appropriate qualitative, quantitative, survey, and evaluation methods...
Health Education and Promotion

Health Education Program
Program Director and Assistant Professor: Fore
Assistant Professors: Batacan, Olsen

Master of Health Education (MHE)
The master's degree program in Health Education is designed to prepare students to teach strategies in health promotion/disease prevention. Coursework emphasizes the acquisition of skills to assess, plan, implement, and evaluate health education programs in the school, community, or worksite setting.

Admission Requirements
To be accepted as a applicant for the Master of Health Education degree, the student must apply to, and meet all criteria for, admission to the Graduate School. In addition, the Health Education Program may require:

1. the applicant to have necessary background in the related natural sciences, and
2. that the applicant have the necessary background in tests and measurements and basic statistical procedures. Both thesis and non-thesis options are available.

Entrance Procedure
The Program Director will review MHE applications. Admission standards and application procedures are presented in the Graduate Catalog. The Program Director will admit prospective students who satisfy the MHE Program and Graduate School admission requirements. Applicants who do not completely satisfy requirements are referred to the Admissions Committee to determine recommended admission or denial.

For classified admission into the program, applicants must satisfy the following criteria:

1. The student must apply to, and meet all criteria for, admission to the Graduate School.
2. Submit all previous college transcripts and have a cumulative undergraduate grade point average of at least 3.0 in upper division courses. An applicant who currently holds a graduate degree must submit transcripts, but the undergraduate GPA requirement will not be part of departmental consideration.
3. Submit two letters of recommendation from individuals (non-relatives) who are familiar with their abilities. The letters should be sent to the Health Education Program at the same time the application is sent to the Graduate School.
4. Applicants must submit a typed essay (one to two pages, single spaced) describing their interest in pursuing the MHE degree and their vision of how it will facilitate their career goals.
5. Applicants currently holding degrees at the doctoral level from an accredited institution will not be required to submit GRE general test scores, except for applicants who have a professional doctoral degree (e.g., PharmD and Juris Doctorate). Those holding degrees at the baccalaureate and master's level must submit GRE general test results to the Graduate School. For classified admission, students must score an average of at least the 40th percentile when considering both quantitative and verbal sections of the GRE general test, but no lower than the 20th percentile in either section. No other instruments, such as MCAT, LSAT, or GMAT, may be substituted.

Course Requirements

<table>
<thead>
<tr>
<th>Health Education Program</th>
<th>Leadership Policy and Administration</th>
<th>3</th>
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<tbody>
<tr>
<td></td>
<td>Health Program Planning and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>HE 6639</td>
<td>Teaching Strategies in Health</td>
<td>3</td>
</tr>
<tr>
<td>HE/MPH 6640</td>
<td>Research and Writing in Health</td>
<td>3</td>
</tr>
<tr>
<td>HE/MPH 6660</td>
<td>Behavior Change Theory and Applications</td>
<td>3</td>
</tr>
<tr>
<td>HE 6623</td>
<td>Curriculum and Supervision</td>
<td>3</td>
</tr>
<tr>
<td>or MPH 6604</td>
<td>Social and Cultural Perspectives in Public Health</td>
<td></td>
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</tbody>
</table>

Select either the Thesis or Non-Thesis option:

| Thesis                  | 6 |
| Approved Electives      | 6 |
| OR                      | |
| Masters Project in Health Education | 6 |
| Approved Electives      | 6 |

Total Hours: 30

Courses

HE 5501 Issues in Health and Wellness: 1-3 semester hour.
Contemporary health and wellness issues emphasizing education interventions and application. Topics may include: death and dying, computer technology in health, healthy aging, motivation, emergency preparedness, alternative and complementary medicine, international health. May be repeated to 6 credits with different content

HE 5525 Patient Education Skills: 2 semester hours.
Explores the foundations and application of organizational and communication skills which promote a positive atmosphere for patient education in clinical and worksite settings
HE 5542 Environmental Health and Health Education: 3 semester hours.
Study of a variety of issues related to protecting and preserving the environment with an emphasis on school and community educational programs. PREREQ: Admission to Health and Nutrition Sciences Program or permission of instructor

HE 5543 Substance Abuse and Health Education: 3 semester hours.
Study of the physical, psychological, sociological, and environmental factors related to drug use with emphasis on school and community prevention programs. PREREQ: Admission to Health and Nutrition Sciences Program or permission of instructor

HE 5545 Human Sexuality and Health Education: 3 semester hours.
Study of the multifaceted nature of human sexuality with an emphasis on school and community-level educational programs. PREREQ: Admission to Health and Nutrition Sciences Program or permission of instructor

HE 5585 Independent Problems in Health Education: 1-3 semester hour.
Individual work under staff guidance. Field and/or library research on specific health education problems of interest to majors and minors. 1-3 credits. May be repeated up to 6 credits. PREREQ: Permission of instructor

HE 5591 Health Education Workshop: 1-3 semester hour.
A critical analysis of one or more areas of health education. Limited enrollment. 1-3 credits. May be repeated up to 6 credits

HE 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. Must be graded S/U

HE 5598P Prof Development Workshop: 3 semester hours.
New methods and opportunities to enhance and supplement skills. Subject to the approval of the Dean of the student's college, a maximum of eight credits earned in workshops may be applied toward a degree; students taking the courses only for personal development may choose the 0-credit option; those seeking professional development must choose a for-credit option

HE 5599 Experimental Course: 1-6 semester hour.
This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

HE 6605 Leadership Policy and Administration: 3 semester hours.
Development of leadership and administrative skills which contribute to implementation of effective public health policies and programs. Students will learn strategic planning, facilitation techniques, communication strategies, budget development, and management. Equivalent to MPH 6605

HE 6620 Health Program Planning and Evaluation: 3 semester hours.
Theory and processes of assessment, planning, implementing, and evaluating health education, promotion, and disease prevention programs. Principles taught in this course will be applied to community situations. Equivalent to MPH 6620

HE 6623 Curriculum and Supervision: 3 semester hours.
Consideration of the health education curriculum in public schools and in colleges and universities. Recent developments and current trends that influence the curriculum and supervision policies. Observation techniques, standards in judging instruction, the supervisory conference, cooperative supervision, basic foundation of curriculum construction, and lesson planning

HE 6639 Teaching Strategies in Health: 3 semester hours.
An advanced study of strategies and innovative methods of teaching health education. Emphasis on application to a variety of educational levels

HE 6640 Research and Writing in Health: 3 semester hours.
Application of principles of research design in the health sciences. Requires preparation of a thesis/project proposal. Equivalent to MPH 6640

HE 6648 Problems in Health Education: 1-3 semester hour.
Individual and group study of problems in the area of health. 1-3 credits. May be repeated to 6 credit hours. Graded S/U. PREREQ: Approval of advisor and/or chairperson

HE 6650 Thesis: 1-6 semester hour.
Thesis. May be repeated. Graded S/U

HE 6651 Masters Project in Health Education: 1-6 semester hour.
Master's Project in Health Education. May be repeated. Graded S/U

HE 6655 Internship: 1-3 semester hour.
Administration, supervision and operation of a community health program. Students work under the direction of a graduate faculty member and practicing administrator. May be repeated up to 3 credits. PREREQ: Approval of advisor and/or chairperson

HE 6660 Behavior Change Theory and Applications: 3 semester hours.
Provides a basic understanding of the social, emotional, and lifestyle factors related to health behavior. Strategies designed to identify barriers to behavior and to enhance the health of selected populations are examined. Equivalent to MPH 6660

HE 6699 Experimental Course: 1-6 semester hour.
This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Public Health

Program Director and Assistant Professor: Fore

Assistant Professors: Lindsay

Master of Public Health (MPH)

Public health has as a basic goal to improve the health of populations through planning, implementing, and evaluating health promotion and disease prevention programs. Public health professionals design these intervention programs by using a combination of health education and related organizational, economic, legislative, and environmental supports to enhance the probability of creating a healthier populace.

The Master of Public Health Program curriculum prepares individuals to carry out the following core public health functions as defined by the American Public Health Association: assess both the health needs and the resources available in a community, assist in health policy development that supports programs in prevention, and assure that necessary, high quality, effective services including education are available to every citizen.

To meet this challenge, the MPH degree at Idaho State University is designed to meet the needs of two types of students:

1. Those practicing health professionals who desire to augment their previous preparation so they may better implement health promotion strategies in their current work setting or community, and
2. Those professionals who wish to train for careers in public health.

Core courses focus on the acquisition of requisite public health knowledge and skills in the disciplines of epidemiology, bio statistics, health policy management, social and behavioral sciences and environmental health. Elective courses allow the student to focus additional coursework in her/his chosen area of interest.
Admission Requirements

For classified admission into the program, applicants must satisfy the following criteria:

1. The student must apply to, and meet all criteria for, admission to the Graduate School.
2. Have a cumulative undergraduate grade point of at least 3.0 in upper division (3000–4000 level) courses. Applicants who currently hold a graduate degree must submit their transcripts. All official college transcripts must be submitted to the ISU Graduate School.
3. Score an average of at least 40th percentile when considering both quantitative and verbal sections of the GRE general test but no lower than the 20th percentile in either section. No other instruments such as MCAT, LSAT, or GMAT may be substituted.
4. Applicants currently holding degrees at the doctoral level from an accredited institution will not be required to submit GRE general test scores (this includes professional doctoral degrees such as PharmD, Juris Doctorate, Medical Doctor, Doctor of Osteopathy, Doctor of Veterinary Medicine). Students who are admitted as Classified w/PR status without GRE scores must take the general test within their first semester of enrollment. Continuation in the program is contingent on the student meeting GRE score requirements. GRE scores must be submitted to the Idaho State University Graduate School.
5. Have two letters of recommendation from non-relative individuals familiar with applicant's academic or professional abilities (no personal references) sent to the Public Health program at the same time application is sent to the Graduate School. The letters must be sealed with the signature of the recommender across the envelope flap.
6. Submit a typed essay (one to two pages, single spaced) describing applicant's interest in pursuing the MPH degree and vision of how it will facilitate the applicant's career goals.
7. International students who have not graduated from an accredited college or university in the United States, and whose native language is not English, must achieve satisfactory scores on the Test of English as a Foreign Language (TOEFL). Satisfactory TOEFL requirements for classified admission are described in the Idaho State University Graduate Catalog under "Admission of International Students." In addition, international student applicants who have not graduated from an accredited college or university in the United States must take the GRE and are required to score in the 40th percentile on at least one area of the GRE, but no lower than the 20th percentile on the other section.

General Requirements

Applicants' transcripts will be evaluated by the Departmental Graduate Admissions Committee at the time of application to determine if deficiencies exist in the undergraduate coursework. Any deficiency that is identified must be made up prior to beginning the MPH program. Committee members will specify to the student courses that must be taken to rectify any deficiency.

Students pursuing the MPH degree must complete a minimum of 48 credits of coursework, including a 6-credit thesis or project and 6 credits of elective course work.

All students must maintain a satisfactory record of scholarship. A 3.0 grade point average (GPA) is required for any graduate degree or certification at Idaho State University. A grade below B is essentially failing at the graduate level. Students who earn a grade below a B in a core course will be required to retake that course. Students who earn grades below a B in two courses will be dismissed from the program.

Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MPH 6601</td>
<td>Applications in Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6602</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6604</td>
<td>Social and Cultural Perspectives in Public Health</td>
<td>3</td>
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<tr>
<td>MPH 6605</td>
<td>Leadership Policy and Administration</td>
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<td>or HE 6605</td>
<td>Leadership Policy and Administration</td>
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<tr>
<td>MPH 6606</td>
<td>Environmental and Occupational Health</td>
<td>3</td>
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<tr>
<td>MPH 6607</td>
<td>US and Global Health Systems</td>
<td>3</td>
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<tr>
<td>MPH 6608</td>
<td>Technological Applications in Public Health</td>
<td>3</td>
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<tr>
<td>MPH 6609</td>
<td>Seminar in Public and Community Health</td>
<td>3</td>
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<tr>
<td>MPH 6620</td>
<td>Health Program Planning and Evaluation</td>
<td>3</td>
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<td>or HE 6620</td>
<td>Health Program Planning and Evaluation</td>
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<tr>
<td>MPH 6640</td>
<td>Research and Writing in Health</td>
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<td>or HE 6640</td>
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<td>MPH 6650</td>
<td>Thesis</td>
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<td>or MPH 6651</td>
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<tr>
<td>MPH 6660</td>
<td>Behavior Change Theory and Applications</td>
<td>3</td>
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<tr>
<td>MPH 6655</td>
<td>Public Health Internship</td>
<td>3</td>
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<tr>
<td>Approved Electives</td>
<td></td>
<td>6</td>
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</tbody>
</table>

Total Hours 48

Courses

**MPH 5585 Independent Study in Public Health: 1-3 semester hours.**

Individual work under staff guidance. Field and/or library research on specific health education problems of interest to majors and minors. May be repeated up to 6 credits. PREREQ: Permission of instructor

**MPH 5599 Experimental Course: 1-6 semester hour.**

This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**MPH 6601 Applications in Epidemiology: 3 semester hours.**

Facilitates an epidemiological approach to problem solving in the health sciences through practical application of field epidemiology concepts and methods. PREREQ: Permission of instructor if student is not in the MPH program

**MPH 6602 Biostatistics: 3 semester hours.**

This course will equip students with a conceptual understanding of the calculation and interpretation of inferential statistics in public health research. PREREQ: Permission of instructor if student is not in the MPH program

**MPH 6604 Social and Cultural Perspectives in Public Health: 3 semester hours.**

Exploration of multicultural health beliefs, health disparities and needs of our society focusing on local cultures to develop culturally competent interventions. Learn about ethical issues, social justice, community systems, coalition building, and development of community partnerships

**MPH 6605 Leadership Policy and Administration: 3 semester hours.**

Development of leadership and administrative skills which contribute to implementation of effective public health policies and programs. Students will learn strategic planning, facilitation techniques, communication strategies, budget development, and management. Equivalent to HE 6605

**MPH 6606 Environmental and Occupational Health: 3 semester hours.**

Understanding the interaction of humans with their environment and the implications of human actions. Learn about assessment and control of health risks posed by chemical and biological contaminants and physical exposures (noise, heat, and radiation) in occupational and non-occupational environments
The Master of Science in Medical Laboratory Science degree is designed for both the practicing medical laboratory scientist (certified lab professional) or those students who wish to become certified and then go into leadership positions in administration, education or specialize in a certain area of pathology/laboratory medicine. Graduates are ideally suited for positions involving teaching, laboratory management, and research. Full-time and part-time options are available, and many courses are available online. A curriculum of course work in laboratory management, and research. Full-time and part-time options are available, and many courses are available online. A curriculum of course work is designed and personalized for each student, depending on his/her area of interest and experience. The Master of Science program in Clinical Laboratory Science requires an original research project that culminates in a thesis, a minimum of 32 credits earned in graduate courses (including research and thesis), and expertise in core conceptual areas of Medical Laboratory Science (scientific, administrative, or educational).

### Admission Requirements

Applicants must have a minimum 3.0 GPA for upper division credits taken at the undergraduate level. Graduate School Admission GPA is calculated based on the last 60± semester undergraduate credits (90± quarter credits). The student must apply to, and meet all criteria for admission to the Graduate School.

In addition, admission into the M.S. program will require the student to meet one of the following conditions:

1. Professionals already certified as Medical Laboratory Scientist (BOC) and completion of a B.S. or B.A. degree in a related science from an accredited university or college. Note: Certification as Medical Laboratory Scientist categorical does not wholly satisfy this requirement, OR
2. Professional entry-level M.S. completing certification requirements while pursuing the M.S. degree. Completion of a B.S. or B.A. degree from an accredited institution and completion of the following requirements during the M.S. program of study:

### MPH 6607 US and Global Health Systems: 3 semester hours.
Explore the historical and contemporary multi-layered social, cultural, political, and economic determinants in the US and internationally that shape health status, health behavior, and health inequalities. Practical application of creating appropriate interventions specific to the target population. 
PREREQ: MPH 6602

### MPH 6608 Technological Applications in Public Health: 3 semester hours.
Introduction and application of software programs utilized in public health practice. Examples include SPSS, MS Excel, GIS, EpiInfo, MS Publisher. 
PREREQ: MPH 6602

### MPH 6609 Seminar in Public and Community Health: 3 semester hours.
Study of topics, trends and challenges within public health 

### MPH 6620 Health Program Planning and Evaluation: 3 semester hours.
Theory and processes of assessment, planning, implementing, and evaluating health education, promotion, and disease prevention programs. Principles taught in this course will be applied to community situations. Equivalent to HE 6620 and DENT 6630

### MPH 6632 Community Health: 3 semester hours.
A study of the role of health education/promotion in the community setting. Emphasis on methods to build coalitions to address community health concerns and on the role of needs assessment

### MPH 6640 Research and Writing in Health: 3 semester hours.
Application of principles of research design in the health sciences. Requires preparation of a thesis/project proposal. Equivalent to HE 6640

### MPH 6650 Thesis: 1-6 semester hour.
Completion of a thesis/manuscript. Practical application of knowledge/skills in a public health setting. May be repeated. Graded S/U. 
PREREQ: MPH 6601, MPH 6602, MPH 6603, MPH 6620, and MPH 6640

### MPH 6651 Public Health Project: 1-6 semester hour.
Completion of a public health project. Practical application of knowledge/skills in a public health setting. May be repeated. Graded S/U. 
PREREQ: MPH 6601, MPH 6602, MPH 6603, MPH 6620, and MPH 6640

### MPH 6655 Public Health Internship: 3 semester hours.
Application of skills in a public health agency, organization or other entity to provide the student with practical experience in the field. May be repeated

### MPH 6660 Behavior Change Theory and Applications: 3 semester hours.
Provides a basic understanding of the social, emotional, and lifestyle factors related to health behavior. Strategies designed to identify barriers to behavior and to enhance the health of selected populations are examined. Equivalent to HE 6660. 
PREREQ: Permission of instructor

### MPH 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated
a. At least 16 semester hours of chemistry to include inorganic chemistry and some combination or organic, biochemistry and analytical chemistry;
b. At least 16 semester hours of biology, to include at least one semester in microbiology, cell biology, genetics, immunology, anatomy and physiology and human pathophysiology.
c. Successful completion of the ISU Medical Laboratory Science professional program, accredited by NAACLS (National Accrediting Agency for Clinical Laboratory Science). Successful completion qualifies the applicant to take the national credentialing examinations offered by Board of Certification (BOC) and this should be attempted within one year of finishing the MLS professional block and prior to completion of the MLS research thesis.

Core Curriculum Areas

The three core areas for Medical Laboratory Science that all students could include in their programs of study are:

1. Scientific subject core area including pathology, hematology, transfusion medicine (immunohematology), clinical chemistry, genetics, microbiology or molecular biology.
2. Management core area including information management, statistics, Quality Assurance Programs (i.e. Westgard, 6 Sigma Lean) predictive value theory, personnel, financial, organizational or regulatory concepts.
3. Educational core area including educational design and adult learning for professionals within and outside the medical laboratory setting.

Students are expected to have significant exposure to these core areas by the time they complete their degree requirements. Students coming in with MLS credentials have already demonstrated mastery of the core scientific subject area and those who do not have these credentials will be expected to demonstrate mastery by an examination administered by the program before they finish their M.S. studies.

Students may opt to gain expertise through a variety of mechanisms including independent readings, formal course work, seminars or special projects. For those students who are not already credentialed, the 6 credits of the MLS Practicum are at the undergraduate level. This does not count toward the 32 graduate credit requirements.

Required Core Courses

These courses will satisfy the M.S. in MLS core areas:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLS 4490</td>
<td>General Site Practicum</td>
<td>2</td>
</tr>
<tr>
<td>MLS 4491</td>
<td>Microbiology Practicum</td>
<td>2</td>
</tr>
<tr>
<td>MLS 4492</td>
<td>Hematology and Urinalysis Practicum</td>
<td>2</td>
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<tr>
<td>MLS 4493</td>
<td>Transfusion Blood Bank Practicum</td>
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<tr>
<td>MLS 4494</td>
<td>Chemistry and Automation Practicum</td>
<td>1</td>
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<tr>
<td>BOC MLS certification</td>
<td>BOC MLS certification</td>
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</tr>
<tr>
<td>MLS 6648</td>
<td>MLS Graduate Problems</td>
<td>4</td>
</tr>
<tr>
<td>MLS 6650</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Select three of the following:

- MLS 6640 Advanced Topics in Hematology
- MLS 6641 Advanced Topics in Immunology and Transfusion Medicine
- MLS 6642 Advanced Topics in Medical Chemistry
- MLS 6643 Advanced Topics in Medical Laboratory Education

MLS 6644 Advanced Topics in Medical Microbiology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLS 6644</td>
<td>Advanced Topics in Medical Microbiology</td>
<td>27</td>
</tr>
</tbody>
</table>

1 does not count for graduate credit

The remaining credits are to be taken from graduate-level courses (a minimum of 16 at the 6600 level) in one or more of the core areas with the approval of the applicant’s committee and MLS Program Director.

Three graduate level courses (6 to 9 credits) approved by the graduate student’s committee may be taken from outside the department (to be taken at Boise State University, Idaho State University, or another approved university) and may include adult education, management, and/or medical informatics.

The thesis project may be in a core scientific subject, management or education or a combination thereof.

Courses

**MLS 5512 Urinalysis and Body Fluids: 1 semester hour.**

Fundamental principles of urine and body fluid analysis with correlation of laboratory methods and practice. Graduate students will prepare, conduct, and evaluate case study sessions. PREREQ: Acceptance into the Medical Laboratory Science program. Professional fee

**MLS 5514 Hematology and Hemostasis: 3 semester hours.**

Theoretical and applied aspects of medical hematology and hemostasis with emphasis on recognition and correlation of abnormal laboratory observations with pathological conditions. Graduate students will prepare, conduct, and evaluate case study sessions. PREREQ: Acceptance into the Medical Laboratory Science program. Professional fee

**MLS 5516 Medical Microbiology I: 3 semester hours.**

Study and identification of medically important bacteria, viruses, fungi, chlamydiae, rickettsiae, and parasites as applicable to laboratory and infection control settings. Gradate students will prepare, conduct, and evaluate case study sessions. PREREQ: BIOL 2235 or BIOL 2221 or equivalent and acceptance into the Medical Laboratory Science program. Professional fee

**MLS 5518 Medical Chemistry and Instrumentation: 3 semester hours.**

Theoretical and applied aspects of medical chemistry with emphasis on test development, validation, and use in diagnosis and management of pathological conditions. Graduate students will prepare, conduct, and evaluate case study sessions. PREREQ: Acceptance into the Medical Laboratory Science program. Professional fee

**MLS 5520 Medical Immunology: 2 semester hours.**

Practical aspects of immunology with emphasis on pathological conditions and laboratory practice. Graduate students will prepare, conduct, and evaluate case study sessions. PREREQ: Acceptance into the Medical Laboratory Science program. Professional fee

**MLS 5522 Basic Concepts in Transfusion Medicine: 2 semester hours.**

Practical aspects and theoretical considerations of major blood groups with respect to transfusion therapy. Oral and written project presentation required for graduate credit. PREREQ: Acceptance into the Medical Laboratory Science program. Professional fee

**MLS 5524 Medical Laboratory Fundamentals: 1 semester hour.**

Theory and application of basic techniques and instruments used in all areas of medical laboratories. Graduate students will evaluate laboratory methods and write standard operating procedures. PREREQ: Acceptance into the Medical Laboratory Science program. Professional fee, Lab fee
Dental Science

Dental Science
Chair, IAGD Director, and Associate Professor: Crawford
IDEP Director and Assistant Professor: Ybarguen
IDEP Faculty: Polarski

Certificate in Idaho Dental Education Program (IDEP)
The Department of Dental Science administers the Idaho Dental Education Program (IDEP) for predoctoral dental students, and the Idaho Advanced General Dentistry Residency (IAGD) as a postdoctoral program.

The Idaho Dental Education Program is designed to provide residents of Idaho with access to a high quality dental education as if Idaho had its own dental school. The IDEP program is fully accredited as a Satellite Program of Creighton University School of Dentistry by the American Dental Association. The program involves a first year curriculum at Idaho State University in Pocatello, followed by completion of the second through fourth years at Creighton University in Omaha, Nebraska. Students completing the four year program receive the Doctor of Dental Surgery (D.D.S.) degree and are eligible to take the licensure examinations necessary to become a practicing dentist. Students may also elect to pursue advanced training through residencies or specialty programs, eventually becoming board certified in one of the recognized dental specialties.

There are eight positions available for Idaho residents. Applicants to the program must have completed the necessary prerequisites in English, Biology, Inorganic Chemistry, Organic Chemistry, Physics and other requirements as outlined in the Department of Dental Science Bulletin. In addition to fulfilling the minimal prerequisites, most students accepted into the program will have a bachelor's degree at the time of entry into IDEP. Occasionally, some exceptional students...
who have completed the junior level (upper division) of college course work are admitted into the program.

Students are encouraged to work closely with their pre-dental academic advisor in making course selections which fulfill dental school and degree completion requirements.

Formal application for admission to the IDEP program follows the guidelines printed in the Department of Dental Science Bulletin and the Creighton University School of Dentistry Bulletin. The application process involves: taking the Dental Aptitude Test (DAT), completion of the American Dental Education Association Application Service centralized application, the Creighton Supplemental Application and the IDEP Residency Certification Form. Although the application process can be completed as late as January 1 of the year the student plans to enter the program, earlier application is strongly encouraged to allow adequate time for completion of admission requirements and consideration by the admission committee.

Further information concerning the program, admission requirements, Bulletins and Residency Certification forms can be obtained by contacting the program at the following address:

Brian R. Crawford, D.D.S
Department of Dental Science Box 8088
Idaho State University
Pocatello ID 83209-8088
Phone: (208) 282-3289
Email: larsjeri@isu.edu
Website: www.isu.edu/departments/dentsci

Idaho Advanced General Dentistry Residency Program (IAGD)

The Department of Dental Sciences sponsors the Idaho Advanced General Dentistry Residency. The goal of the program includes increasing the knowledge and clinical skills of the general dentist beyond that achieved in the predoctoral education. Through an integrated multidisciplinary learning environment, residents are able to increase their competence in the application of modern standards of care and practice management.

This one-year residency focuses on providing comprehensive care in a variety of clinical settings, emphasizing rural, under-served, and at-risk populations. Residents also receive training with patients who have emergency or episodic needs. A certificate is awarded upon the successful completion of the program.

The IAGD is fully accredited by the American Dental Association Commission on Dental Accreditation until 2015.

Further information concerning this program, e.g., admission requirements, forms, etc., can be obtained by contacting the Program Director.

Certificate in Idaho Dental Education Program (IDEP)

Required Basic Science Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 5500</td>
<td>Oral Histology and Embryology</td>
<td>3</td>
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<tr>
<td>BIOL 5500L</td>
<td>Oral Histology and Embryology Lab</td>
<td>0</td>
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<tr>
<td>BIOL 5519</td>
<td>Mammalian Histology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 5519L</td>
<td>Mammalian Histology Lab</td>
<td>0</td>
</tr>
<tr>
<td>BIOL 5532</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5540</td>
<td>Human Gross Anatomy</td>
<td>4</td>
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<td>BIOL 5540L</td>
<td>Human Gross Anatomy Lab</td>
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<tr>
<td>BIOL 5546</td>
<td>Selected Topics in Physiology</td>
<td>1</td>
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<tr>
<td>BIOL 5550</td>
<td>Head and Neck Anatomy</td>
<td>4</td>
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<tr>
<td>BIOL 5550L</td>
<td>Head and Neck Anatomy Lab</td>
<td>0</td>
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<tr>
<td>BIOL 5555</td>
<td>Pathogenic Microbiology</td>
<td>3</td>
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<tr>
<td>BIOL 5560</td>
<td>Neuroscience</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 5568</td>
<td>Oral Microbiology</td>
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Required Dental Science Courses

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IDEP 5513</td>
<td>Dental Anatomy Lecture I</td>
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</tr>
<tr>
<td>IDEP 5514</td>
<td>Dental Anatomy Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>IDEP 5515</td>
<td>Dental Materials Science I</td>
<td>2</td>
</tr>
<tr>
<td>IDEP 5517</td>
<td>Interpersonal Relationships and Communication</td>
<td>1</td>
</tr>
<tr>
<td>IDEP 5523</td>
<td>Preventive Dentistry</td>
<td>2</td>
</tr>
<tr>
<td>IDEP 5525</td>
<td>History of Dentistry</td>
<td>1</td>
</tr>
<tr>
<td>IDEP 5526</td>
<td>Community Dentistry Field Experience</td>
<td>1</td>
</tr>
<tr>
<td>IDEP 5533</td>
<td>Oral Hygiene Technique</td>
<td>1</td>
</tr>
<tr>
<td>IDEP 5534</td>
<td>Dental Materials Science II</td>
<td>3</td>
</tr>
<tr>
<td>IDEP 5535</td>
<td>Occlusion Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>IDEP 5544</td>
<td>Values and Ethics</td>
<td>1</td>
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<tr>
<td>IDEP 5554</td>
<td>Occlusion Lecture</td>
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<tr>
<td>IDEP 5563</td>
<td>Dental Radiology I</td>
<td>1</td>
</tr>
<tr>
<td>IDEP 5564</td>
<td>Dental Radiology Technique</td>
<td>1</td>
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<td>NTD 5595</td>
<td>Dental Nutrition</td>
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Optional Dental Science Course

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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IDEP 6617</td>
<td>Extramural Dental Education Program</td>
<td>2</td>
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ID Adv General Dentistry Prog Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>IAGD 5599</td>
<td>Experimental Course: 1-6 semester hour.</td>
<td></td>
</tr>
<tr>
<td>IAGD 6610</td>
<td>General Dentistry Practicum I: 12 semester hours.</td>
<td></td>
</tr>
<tr>
<td>IAGD 6620</td>
<td>General Dentistry Practicum II: 12 semester hours.</td>
<td></td>
</tr>
<tr>
<td>IAGD 6624</td>
<td>Dental Practice Management I: 1 semester hour.</td>
<td></td>
</tr>
<tr>
<td>IAGD 6625</td>
<td>Dental Practice Management II: 1 semester hour.</td>
<td></td>
</tr>
<tr>
<td>IAGD 6626</td>
<td>Dental Practice Management III: 1 semester hour.</td>
<td></td>
</tr>
</tbody>
</table>

Supervised provision of general dental services with emphasis on increasing skills in routine general dental procedures and introduction to selected specialty procedures. Course may include periodic lectures on selected topics. PREREQ: Acceptance into IAGD program

Supervised provision of general dental services with emphasis on increasing skills in advanced general dental procedures and completion of selected specialty procedures. Course may include period lectures on selected topics. PREREQ: IAGD 6610

Continued provision of general dental services with emphasis on increasing skills in advanced general dental procedures and completion of selected specialty procedures. Course may include period lectures on selected topics. PREREQ: IAGD 6620

Continuing experiential course in dental practice management. Enrollees will participate in aspects of the management of the AEGD program's dental clinic. PREREQ: Acceptance into the IAGD program

Continuing experiential course in dental practice management. Enrollees will participate in aspects of the management of the AEGD program's dental clinic. PREREQ: IAGD 6624

Advanced course in dental practice management. Enrollees will participate in all aspects of the management of the AEGD program's dental clinic. PREREQ: IAGD 6625
Idaho Dental Educ Prog Courses

**IAGD 6630 Dental Implantology I: 1 semester hour.**
A coordinated lecture, laboratory and clinical experience in treatment planning, placement and restoration of dental implants. This course emphasizes the theory and basic biology of dental implants. PREREQ: Acceptance into the IAGD program

**IAGD 6631 Dental Implantology II: 1 semester hour.**
Continuing lecture, laboratory and clinical experience in treatment planning, placement, restoration and maintenance of dental implants. This course emphasizes problem solving and incorporation of implants in general dental practice. PREREQ: IAGD 6630

**IAGD 6632 Dental Implantology III: 1 semester hour.**
Continuing lecture, laboratory and clinical experience in treatment planning, placement, restoration and maintenance of dental implants. This course emphasizes problem solving and incorporation of implants in general dental practice. PREREQ: IAGD 6631

**IAGD 6635 Dental Medicine Seminar I: 1 semester hour.**
Participation in the ISU Family Medicine residents' seminar series covering topics of internal and specialty medicine. PREREQ: Acceptance into the IAGD program

**IAGD 6636 Dental Medicine Seminar II: 1 semester hour.**
Continuing participation in the ISU Family Medicine residents' seminar series covering topics of internal and specialty medicine. PREREQ: IAGD 6635

**IAGD 6637 Dental Medicine Seminar III: 1 semester hour.**
Continuing participation in the ISU Family Medicine residents' seminar series covering topics of internal and specialty medicine. PREREQ: IAGD 6636

**IAGD 6640 Dental Conscious Sedation I: 2 semester hours.**
Integrated lecture and clinical experience in safe and efficacious delivery of conscious sedation. The two-semester experience is designed to fulfill the ADA guidelines. PREREQ: Acceptance into the IAGD program

**IAGD 6641 Dental Conscious Sedation II: 2 semester hours.**
Continuing lecture and clinical experience in safe and efficacious delivery of conscious sedation. PREREQ: IAGD 6640

**IAGD 6645 General Dentistry Videoteleconference I: 4 semester hours.**
Participation in the weekly two-way videoteleconference general dentistry series originating from Lutheran Medical Center in Brooklyn, NY, designed for AEGD programs. PREREQ: Acceptance into the IAGD program

**IAGD 6646 General Dentistry Videoteleconference II: 4 semester hours.**
Continuing participation in the weekly two-way video-teleconference general dentistry series originating from Lutheran Medical Center in Brooklyn, NY, designed for AEGD programs. PREREQ: IAGD 6645

**IAGD 6647 General Dentistry Videoteleconference III: 3 semester hours.**
Continuing participation in and presentation for the weekly two-way video teleconference general dentistry series originating from Lutheran Medical Center in Brooklyn, NY, designed for AEGD programs. PREREQ: IAGD 6646

**IAGD 6650 Dental Literature Review I: 1 semester hour.**
Critical review of current and historical dental literature in general dentistry and selected recognized specialty areas of dentistry. PREREQ: Acceptance into the IAGD program

**IAGD 6651 Dental Literature Review II: 1 semester hour.**
Continuing review of current and historical dental literature in general dentistry and selected recognized specialty areas of dentistry emphasizing outcomes and parameters of care. PREREQ: IAGD 6650

**IAGD 6699 Experimental Course: 1-6 semester hour.**
This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated
IDEP 5563 Dental Radiology I: 1 semester hour.
History, theory and application of ionizing radiation resulting in radiography of the oral structures including exposure and developing parameters along with basic interpretation. COREQ: IDEP 5564

IDEP 5564 Dental Radiology Technique: 1 semester hour.
Practical experience in exposing and developing dental radiographs. The course will include techniques required to complete a diagnostic full mouth series, bitewing films and panoramic radiographs. COREQ: IDEP 5563

IDEP 5565 Dental Radiology II: 1 semester hour.
History, theory, and application of radiographic methods in dentistry including cephalometric, panoramic, and digital modalities. COREQ: IDEP 5563 and IDEP 5564

Dental Hygiene

Director and Professor: Gurenlian
Emeriti Professors: Bowen, Herzog, Paarmann, Hodges
Professor: Rogo
Associate Professors: Calley, Freudenthal, Johnson, Garland
Assistant Professor:

Master of Science in Dental Hygiene
The Master of Science degree in Dental Hygiene is an advanced degree; therefore, the program is designed for students who are licensed dental hygienists with baccalaureate degrees. Graduates will be prepared for various career opportunities within the health care arena.

Goals
Program goals of this graduate level dental hygiene program are to prepare professional dental hygienists to:

1. Assume leadership roles in academics, rural and community health settings, research, professional associations or commercial industry;
2. Develop advanced clinical abilities that improve oral health and access to dental hygiene care;
3. Acquire research abilities that contribute to the scientific dental hygiene body of knowledge;
4. Assume responsibility for professional development through life-long learning capability; and
5. Provide a foundation for future doctoral education.

Admission Requirements
The student must fulfill the following requirements:

- Graduation from an accredited entry level dental hygiene program
- Bachelor's degree in dental hygiene or a related field
- Minimum grade point average of 3.0 in upper division and dental hygiene coursework
- Current dental hygiene licensure in good standing

1. The student must apply to, and meet all criteria for, admission to the Graduate School, and submit a completed application, residency form, fee payment, and transcripts. International students should refer to the "Admission of International Students" section of this Catalog for TOEFL and other requirements. Information is online at www.isu.edu/departments/graduate/

IDEP 5569 Experimental Course: 1-6 semester hour.
This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

IDEP 6617 Extramural Dental Education Program: 2 semester hours.
Community clinical experience at the ISU dental clinic. Under direct supervision, dental students observe and participate in total patient care and office management while serving Idaho residents who would not normally receive dental care

IDEP 6699 Experimental Course: 1-6 semester hour.
This course is not described in the catalog. The course title and number of credits are announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

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The core courses advance the theory and practice of dental hygiene and prepare students in research methodology to apply during the thesis process. A thesis is required because the Master of Science degree in Dental Hygiene is the terminal degree in the discipline and a research foundation is imperative to advance the theoretical knowledge base of the profession. In addition to the core curriculum, graduates complete an area of emphasis in dental hygiene education or rural and community health. Two required dental hygiene courses in the emphasis area, coupled with a practicum experience and a related elective course, provide a strong basis for advanced study and thesis work. To enhance the breadth of knowledge, students are required to complete a minimum of 3 credits of electives selected from related graduate coursework offered outside the Department of Dental Hygiene.

The program is an online graduate curriculum with on-campus visitations required for orientation, DENT 6619 Graduate Seminar II and oral examination for thesis defense. The advanced clinical course will be offered in Pocatello at the on-campus clinical facility during the Summer Semester. A maximum of 9 credits may be transferred officially to Idaho State University. Academic Requirements

1. Once admitted, students must complete a plan of graduate study with their dental hygiene graduate advisor no later than the end of the first semester after enrollment. This plan must be approved by the Program Director.
2. Any student who, after admission to the Master of Science program, falls below a 3.0 GPA, or who receives a grade of C+ or below in two graduate courses during his or her program of study will be deemed to be performing at an unsatisfactory level and will be dismissed.
3. Any student who, after admission to the Master of Science program, receives a C, C-, D, F, or grade in any graduate course in his or her program of study will be dismissed. Courses with grades of C or lower may not be used to satisfy graduation requirements.
4. Current CPR, related screenings and/or immunizations are required prior to attending the on-campus orientation.

Graduation Requirements

1. Successfully conduct and defend a thesis as outlined in the Department of Dental Hygiene, Division of Graduate Studies, Graduate Student Handbook.
2. Complete the coursework on the study plan approved by the Program Director, Department of Dental Hygiene, Division of Graduate Studies, and by the ISU Graduate School.

Courses

**DENT 5596 Graduate Seminar I: 1 semester hour.**
This seminar uses web-based activities and on-site campus activities to assist students in developing skills and abilities essential for successful participation in the MSDH program. Graded S/U

**DENT 5598P Professional Development Topics: 1-3 semester hours.**
A course for practicing professionals aimed at the development and improvement of skills. May be applied to graduate degrees under special circumstances. May be repeated. Graded S/U

**DENT 5599 Experimental Course: 1-6 semester hour.**
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**DENT 6605 Program Development and Evaluation: 3 semester hours.**
An overview of general principles of teaching, learning and evaluation in academic and community oral health programs. Emphasis on assessment, planning, implementation and evaluation of programs

**DENT 6610 Special Care Populations: 3 semester hours.**
Concepts related to providing oral health care for special care populations. Emphasis on assessment, planning, implementation and evaluation of care for individuals with transient or lifelong physical, mental, medical or social health needs

**DENT 6612 Administration and Management of Healthcare Organizations: 3 semester hours.**
This course combines theoretical knowledge with practical application of principles and techniques for managing a health care environment and employees associated with providing care. Emphasis on organizational structure, human resource management, financial management, quality assurance, policy development, information management, grant writing and business planning

**DENT 6615 Progressive Dental Hygiene Theory: 3 semester hours.**
Critical analysis of the dental hygiene process of care related to advanced preventive and therapeutic interventions to various population groups, technology and outcomes

**DENT 6616 Progress Dent Hygiene Pract: 1 semester hour.**
This clinical course provides students with experiential learning opportunities to enhance self-assessment and peer/student evaluation in clinical dental hygiene. Formative assessment techniques are applied to the process of dental hygiene care: assessment, diagnosis, care planning, implementation and evaluation. The course will culminate in an individualized professional development plan constructed by each student based upon faculty, self and peer assessments as well as career goals. May be repeated for up to 2 credits. Graded S/U. PREREQ: DENT 6615 or permission of instructor

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### Core Course Requirements

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DENT 5596</td>
<td>Graduate Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>DENT 6605</td>
<td>Program Development and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>DENT 6612</td>
<td>Administration and Management of Healthcare Organizations (Or)</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5599</td>
<td>Experimental Course (Business of Health Care)</td>
<td>1-6</td>
</tr>
<tr>
<td>DENT 6615</td>
<td>Progressive Dental Hygiene Theory</td>
<td>3</td>
</tr>
<tr>
<td>DENT 6618</td>
<td>Leadership Strategies to Improve Health Care</td>
<td>3</td>
</tr>
<tr>
<td>DENT 6619</td>
<td>Graduate Seminar II</td>
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</tr>
<tr>
<td>DENT 6646</td>
<td>Health Research ¹</td>
<td>3</td>
</tr>
<tr>
<td>DENT 6650</td>
<td>Thesis (minimum credits)</td>
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</tr>
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### Emphasis Areas

Select one of the following emphases: 11-13 semester hours

#### Dental Hygiene Education Emphasis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DENT 6620</td>
<td>Advanced Educational Theory and Methods</td>
<td>3</td>
</tr>
<tr>
<td>DENT 6621</td>
<td>Dental Hygiene Clinical Instruction and Administration</td>
<td>3</td>
</tr>
<tr>
<td>DENT 6625</td>
<td>Dental Hygiene Education Practicum</td>
<td>2-4</td>
</tr>
</tbody>
</table>

Elective course in emphasis area (Program Director approval required)

#### Rural and Community Health Emphasis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DENT 6610</td>
<td>Special Care Populations</td>
<td>3</td>
</tr>
<tr>
<td>DENT 6632</td>
<td>Community and Global Health</td>
<td>3</td>
</tr>
<tr>
<td>DENT 6635</td>
<td>Rural and Community Health Practicum</td>
<td>2-4</td>
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</tbody>
</table>

Elective course requirements (Program Director approval required) 3 semester hours

### Total Hours

37 semester hours

¹ Undergraduate statistics or biostatistics must be taken as a prerequisite. A minimum of "C" or better is required.

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### Academic Requirements

1. Once admitted, students must complete a plan of graduate study with their dental hygiene graduate advisor no later than the end of the first semester after enrollment. This plan must be approved by the Program Director.
2. Any student who, after admission to the Master of Science program, falls below a 3.0 GPA, or who receives a grade of C+ or below in two graduate courses during his or her program of study will be deemed to be performing at an unsatisfactory level and will be dismissed.
3. Any student who, after admission to the Master of Science program, receives a C, C-, D, F, or grade in any graduate course in his or her program of study will be dismissed. Courses with grades of C or lower may not be used to satisfy graduation requirements.
4. Current CPR, related screenings and/or immunizations are required prior to attending the on-campus orientation.
DENT 6618 Leadership Strategies to Improve Health Care: 3 semester hours. Application of leadership theory and models to professional issues, policy development, advocacy, coalition building, strategic planning, communication, conflict resolution and professional advancement.

DENT 6619 Graduate Seminar II: 1 semester hour. This course provides students with experiential learning in dental hygiene practice, research, education, and innovations in technology. The course will culminate in an updated portfolio that addresses career goals within and beyond graduate education. PREREQ: DENT 6615 or permission of instructor. Graded S/U.

DENT 6620 Advanced Educational Theory and Methods: 3 semester hours. Study of theory, principles, and research related to the faculty role in active teaching and learning, development of ethical reasoning, critical thinking and reflective judgment, development of curricular frameworks, outcomes and competencies, and course delivery methods. PREREQ: DENT 6605 or departmental approval.

DENT 6621 Dental Hygiene Clinical Instruction and Administration: 3 semester hours. Theory and practices of clinical instruction and supervision, related to psychomotor skill development, competency-based evaluation, student mentoring and remediation. Examination of organizational and administrative philosophy and practice in curriculum planning, implementation, and evaluation based on accreditation standards. PREREQ: DENT 6620 or departmental approval.

DENT 6625 Dental Hygiene Education Practicum: 2-4 semester hour. Individualized experience to apply principles and theories in dental hygiene education. Approval required for practicum sites. May be repeated for a maximum of 6 credits. Graded S/U. PREREQ: DENT 6616 and DENT 6620 or departmental approval.

DENT 6632 Community and Global Health: 3 semester hours. A study of population groups that are at increased risk of poor health and a familiarity with policies and programs designed to reduce health inequalities. Emphasis on the ability to plan, implement, and evaluate an oral health program to increase access to care in an underserved target population.

DENT 6635 Rural and Community Health Practicum: 2-4 semester hour. Individualized service-learning experience designed to apply theories in rural and community health to improve access to care. Approval required for practicum sites. May be repeated for a maximum of 6 credits. Graded S/U. PREREQ: DENT 6616 and DENT 6630 or departmental approval.

DENT 6640 Independent Study in Dental Hygiene: 2-3 semester hour. Specific problems selected on the basis of interest and preparation. Individualized student effort under the guidance of the instructor. May be repeated up to 6 credits.

DENT 6646 Health Research: 3 semester hours. Development of foundations in health research and design. The focus will be on effective literature searching with critical analysis and synthesis of evidence-based literature leading to identification of problems for research. PREREQ: Undergraduate Statistics or Biostatistics.


DENT 6699 Experimental Course: 1-6 semester hour. This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

Nursing

Mary A. Nies, PhD, RN, FAAN, FAAHB, Dean and Professor, School of Nursing.

Karen S. Neill, Ph.D., R.N., SANE-A Associate Director for Graduate Studies and Professor.

Ann Rocha, Ph.D., CNS, RN Interim Associate Director for Undergraduate Studies and Clinical Assistant Professor.

Professors: Neill, Nies

Associate Professor: Arvidson

Assistant Professor: Gee, P., Kehinde, Tavernier

Clinical Assistant Professors: Adams, Baron, Belliston, Bledsoe, Gee J., Ovitt, Sabel, Jardine-Dickerson, Rocha

Clinical Instructors: Omotowa

Mission

The SON Mission is to prepare exemplary nurse leaders who integrate education, service and research to enhance quality of life for diverse and rural populations.

Vision

The SON Vision is to be an internationally renowned college of nursing sought out by those who are committed to lifelong inquiry for improving the health of diverse populations.

Degree Programs

Degree programs offered by the School of Nursing include:

• Doctor of Philosophy (Ph.D.) in Nursing
• Doctor of Nursing Practice (DNP)
  DNP specific options include: Family Nurse Practitioner (FNP) and Psychiatric Mental Health Nurse Practitioner (PMHNP)
• Master’s in Nursing (M.S)
  M.S. specific option offered in Nursing Education

DNP Degree Program

The primary objective of the DNP degree program will be to prepare clinical leaders who can effectively evaluate clinical outcomes, identify and manage health care needs of individuals, families, and populations, use technology and information to transform health care systems, and participate in interprofessional collaboration to develop efficient and effective models of health care delivery. The graduate of the DNP program will be prepared for specific national certification examination.

Accreditation

The baccalaureate and master's degree programs in the School of Nursing are accredited by the Commission on Collegiate Nursing Education (CCNE), One DuPont Circle, NW, Suite 530, Washington, DC 20036, 202-887-6791.

Note: The DNP program is currently under review by the CCNE for accreditation status.
School of Nursing Fees

The School of Nursing (SON) charges a student professional fee each semester of enrollment including summer session in any nursing program. Other fees may apply. Please see ISU School of Nursing website at http://www.isu.edu/nursing/dnp.shtml for further information.

Students will be required to enroll in Nursing Education Exchange (NEXus) courses as part of any graduate program/option in Nursing which will require additional enrollment fee(s) per course in any semester.

Doctor of Philosophy (Ph.D.) in Nursing

The Ph.D. in Nursing degree program will prepare the candidate to conduct independent research, collaborate as a scholar and leader, and educate for improving health and health care globally. The Ph.D. program will admit students on full time status. The Ph.D. in Nursing program is delivered online.

Goals

The Ph.D. in Nursing is designed with a research emphasis dedicated to extending nursing science and improving the delivery of health care for rural and vulnerable individuals, families and communities within existing cultural, geographical, and health care context. An interprofessional research focus will provide an opportunity for students to learn by collaborating with other professionals, and prepare graduates for leading change and advancing health and health care systems.

Ph.D. Degree Program Outcomes

Each student will complete a core curriculum and work closely with interprofessional faculty advisors to complete an individualized course of study which includes the student’s goals and develops the foundation for a program of research. Students will complete the coursework and dissertation through online technologies integrating an interprofessional/disciplinary approach to:

1. Communicate scientific knowledge through mentorship, collaboration, and dissemination.
2. Create original research that contributes to scientific nursing knowledge.
3. Contribute to the development of methodologies congruent with the broad concerns of the nursing discipline.
4. Contribute to the discovery, application, and integration of nursing and interprofessional knowledge and leadership.

Admission Requirements

The student must apply to and meet all requirements for admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with the following:

1. Earned Bachelor of Science (BS in Nursing or BSN) from programs accredited by the Commission on Collegiate Nursing Education (CCNE) for the Accreditation Commission or Education in Nursing (ACEN). Master's degree in Nursing from an accredited program will be considered.
2. Cumulative GPA of 3.5 or higher from a Bachelor of Science in Nursing (B.S. or B.S.N.) program of study or #3.5 GPA based on previous 60 credits of undergraduate coursework.
3. English Proficiency Exams: Students whose native language is not English must provide evidence of satisfactory scores on the English Foreign Language (TOEFL) or on the International English Language Testing System (IELTS).
   a. Satisfactory TOEFL requirements for admission include:
      i. Internet-based total test score of 80 with a score of at least 20 on each Section and 23 or above on the Speaking Section; or
   ii. Computer-based total test score of 213 with a score of at least 21 on Section 1 (Listening Comprehension); or
   iii. Paper-based total test score of 550 with a score of at least 55 on section 1 (Listening Comprehension).
   b. Satisfactory IELTS requirement for admission include scoring 6.5 or higher on the total band and 6.5 on the speaking test component.
4. Completed application to the SON by established deadline.
5. Verification of valid and current unencumbered Registered Nursing license.
6. Completion of a preadmission interview by the SON Ph.D. Admissions committee. If the applicant resides at a distance over 100 miles, an interview by videoconference may be provided for at the student’s expense.
7. Mandatory attendance at the orientation for the Ph.D. program to be held on the ISU campus in the summer session following admission.

The SON Ph.D. Admissions committee will make the final recommendation regarding admission. This decision will be based on evaluation of established application and admission requirements.

Application Requirements

The student must apply to and meet all requirements for admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with the following:

1. Application to the Graduate School AND to the School of Nursing with payment of appropriate fees (separate application process).
2. Submission directly to the Graduate School of official transcripts for all degrees including the completion of BS in Nursing or BSN from an accredited nursing program.
3. Evidence of completing descriptive or inferential statistics course with a C grade or better within three (3) years previous to admission to the program. A descriptive or inferential statistics course may be taken during the admission process; course must be completed prior to starting the program.
5. Submission of a writing sample (professional paper).
6. Three professional references attesting to the applicant’s capacity and potential for doctoral study. Two references should be from academic sources and one from a recent employer.
7. Submission of professional vitae or resume.

Selection Schedule for Ph.D. Program

Application for the Ph.D. program will open in September of any academic year. Preference will be given to applications submitted by February 1 of any year. Applications are accepted on a rolling basis until class filled. Notification of successful applicants for admission and alternates will be announced by April 14 of any year.

Dissertation Preparation and Advancement to Candidacy

Comprehensive Examination

The student must complete designated required and elective courses in order to complete the comprehensive qualifying examination requirements. If the student fails any component of the comprehensive examination, the student may retake the examination one time within established ISU SON guidelines, Ph.D. Handbook.

Admission to Candidacy

Each student that has successfully completed the comprehensive examination may apply for degree candidacy.
Dissertation

Once the student has been admitted to degree candidacy, the student enrolls in NURS 8890 Dissertation for completion of the dissertation until completed.

Continuous Enrollment

Students must maintain continuous enrollment in NRUS 8890 while in the process of research and writing the dissertation. The student must maintain continuous enrollment until graduation.

*Upon admission to the Ph.D. program, the student will be provided access to a SON Ph.D. Handbook which will include further information, program specific policies, and procedures.

Required Courses and Electives

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<tr>
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<td>NURS 8805</td>
<td>Philosophy of Inquiry</td>
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</tr>
<tr>
<td>NURS 8808</td>
<td>Theoretical Analysis Nursing Science</td>
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</tr>
<tr>
<td>NURS 8809</td>
<td>Rural and Global Communities in Society</td>
<td>2</td>
</tr>
<tr>
<td>NURS 8813</td>
<td>Advanced Qualitative Analysis</td>
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<td>Advanced Statistics Multivariate</td>
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<td>NURS 8815</td>
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<td>NURS 8816</td>
<td>Advanced Statistical Methods</td>
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</tr>
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<td>NURS 8825</td>
<td>Grant and Scholarly Writing</td>
<td>2</td>
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<td>NURS 8826</td>
<td>Advanced Scientific Writing</td>
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<td>NURS 8830</td>
<td>Mixed Methods Health Care Research</td>
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<td>NURS 8835</td>
<td>Mentored Research Project</td>
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<td>NURS 8840</td>
<td>Health Policy</td>
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<td>NURS 8880</td>
<td>Research Seminar I</td>
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Curriculum for the Bachelor of Science in Nursing to Doctor of Philosophy in Nursing Program

First Year

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Second Year

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Third Year

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Total Hours: 59

Doctor of Nursing Practice (DNP)

The primary objective of the DNP degree program is to prepare clinical leaders who can effectively evaluate clinical outcomes, identify and manage health care needs of individuals, families, and populations, use technology and information to transform health care systems, and participate in interprofessional collaboration to develop efficient and effective models of health care delivery. The graduate of the DNP program option of FNP or PMHNP is eligible to sit for the certification examination for the specific option.

The DNP program options are delivered online. The DNP program will enroll students on full time, part time, or Post Master's status. Admission to any option on full time, part time, or Post Masters status is contingent on sufficient enrollment as defined by the SON. Two specific options are open for enrollment in the DNP program. These options include: Family Nurse Practitioner (FNP) and Psychiatric Mental Health Nurse Practitioner (PMHNP).

In order to be eligible for Post Master's DNP degree program, the applicant must hold national certification as a Family Nurse Practitioner (FNP) or Psychiatric Mental Health Nurse Practitioner (PMHNP).

Option Descriptions for the DNP degree program:

Family Nurse Practitioner (FNP):

The Family Nurse Practitioner (FNP) is prepared to be a leader in primary care, combining the roles of provider, mentor, educator, and administrator. The FNP is prepared to practice autonomously and in collaboration with other healthcare professionals to provide evidence-based care to individuals, families, and populations across the lifespan in a variety of settings.

Psychiatric Mental Health Nurse Practitioner (PMHNP):

The Psychiatric Mental Health Nurse Practitioner is prepared to provide psychiatric mental health care along the wellness-illness continuum, effectively evaluate clinical outcomes, and identify and manage primary and acute mental health care needs of individuals and families.

DNP Program Outcomes

1. Assume interprofessional leadership to advance clinical practice and health care delivery to rural and diverse populations.
2. Integrate nursing science into evidence-based care for individuals, families, and communities to improve outcomes.
3. Incorporate practice initiatives to improve systems of health care delivery.
4. Advocate policy for health care.

Admission Requirements

The student must apply to and meet all requirements for admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with the following:

1. Earned Bachelor of Science (BS in Nursing or BSN) from program accredited by the Commission on Collegiate Nursing Education (CCNE) or the Accreditation Commission for Education in Nursing (ACEN).
2. Cumulative GPA of 3.0 or higher (calculated based on previous 60 credits of undergraduate coursework) from a Bachelor of Science degree (BS in Nursing or BSN).
3. English Proficiency Exams: Students whose native language is not English must provide evidence of satisfactory scores on the English Foreign Language (TOEFL) or on the International English Language Testing System (IELTS). (See Graduate Catalog for details).
   a. Satisfactory TOEFL requirements for admission include:
      i. Internet-based total test score of 80 with a score of at least 20 on each Section and 23 or above on the Speaking Section; or
      ii. Computer-based total test score of 213 with a score of at least 21 on Section 1 (Listening Comprehension); or

iii) Paper-based total test score of 550 with a score of at least 55 on section 1 (Listening Comprehension).

b. Satisfactory IELTS requirement for admission include scoring 6.5 or higher on the total band and 6.5 on the speaking test component.

4. Completed application to the SON by established deadline.
5. Verification of valid and current unencumbered Registered Nursing license.
6. Completion of a preadmission interview by the SON DNP Admissions committee. If the applicant resides at a distance over 100 miles, an interview by videoconference may be provided for at the student’s expense.

Two years of documented previous healthcare or nursing experience before admission is preferred, but not required. Admission to the FNP or PMHNP DNP degree option is contingent on sufficient enrollment as defined by the SON.

The SON DNP Admissions committee will make the final recommendation regarding admission. This decision will be based on evaluation of established application and admission requirements.

Admission to the FNP or PMHNP DNP degree option is contingent on sufficient enrollment as defined by the SON.

Application Requirements

The student must apply to and meet all requirements for admission to the Graduate School. In addition, the following must be complied with:

1. Application to the Graduate School AND to the School of Nursing with payment of appropriate fees (separate application process).
2. Submission directly to the Graduate School of official transcripts of all degrees including the completion of the Bachelor of Science in Nursing (BSN BS in nursing) from an accredited nursing program. Official transcripts must be sent directly to the Graduate School from the Registrars office of the applicants previous institution(s) of study.
3. Evidence of completing prerequisite descriptive or inferential statistics course with a C grade or higher prior to admission to the program.
4. Submission of professional essay (3-4 pages) describing education, research, clinical, and life experiences that prepare applicant for the DNP program, and how this preparation will facilitate career goals.
5. Three professional references attesting the applicants capacity and potential for clinical doctoral study.
6. Submission of professional vitae or resume.
7. [POST MASTER’S APPLICANTS ONLY]- Post Master’s applicants must provide proof of certification in the option (FNP or PMHNP) for which the application is submitted.
8. [POST MASTER’S APPLICANTS ONLY]- The Post Master’s applicant must submit at the time of application an official letter (with the university seal) that documents the total number of clinical hours completed in the previous masters degree advanced practice program in Nursing from which the student graduated. An official transcript that documents the total number of clinical hours completed in the previous advanced practice program will be accepted.

*Students will be required to enroll in NEXUs (The Nursing Education Exchange) courses as part of the DNP program which will require an additional enrollment fee(s) per course in any semester.

Selection Schedule for DNP Program

Application for the DNP program will open in November of any academic year. Preference will be given to full-time applicants in any option. Preference will also be given to applications submitted by February 1 of any year. Admission to the FNP or PMHNP options is contingent on sufficient enrollment as defined by the School of Nursing. Applications are accepted on a rolling basis until class is filled. All application and admission requirements as posted on the website for the DNP degree program apply. Notification of applicants selected for admission and alternates will be announced by April 14th of any year.

Graduation Criteria

1. Successfully complete a scholarly project.
2. Successfully pass a written and oral comprehensive examination.
3. Meet all requirements established by ISU, the Graduate School, and the School of Nursing for graduation with the DNP degree.

Scholarly Project

The Scholarly Project includes synthesis of scientific evidence and theoretical principles within a practice environment(s) to improve healthcare outcomes. The Scholarly Project involves the incorporation of knowledge of current and emerging healthcare technologies to improve care delivery and organizational systems for groups and populations. Requires a minimum of eight credit hours.

Continuous Enrollment

Students must maintain continuous enrollment in NURS 7790 while in the process of completing the Scholarly Project. The student must maintain continuous enrollment until graduation.

*Upon admission to the DNP program, the student will be provided access to a SON DNP Handbook, which will include further information, program specific policies, and procedures.

Doctorate of Nursing Practice (DNP) Programs of Study

Core Courses (required for all DNP options)

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<tr>
<th>Course Code</th>
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<tr>
<td>Nexus - Advanced Human Pathophysiology</td>
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<tr>
<td>NURS 6611</td>
<td>Advanced Health Assessment</td>
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<tr>
<td>NURS 6611L</td>
<td>Advanced Health Assessment Lab (96 clinical hours)</td>
<td>2</td>
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<tr>
<td>PHAR 6645</td>
<td>Pharmacotherapeutics for Advanced Practice Nurses</td>
<td>3</td>
</tr>
<tr>
<td>NURS 5580</td>
<td>Genetics for Health Care Professionals</td>
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<tr>
<td>NURS 6600</td>
<td>Theoretical Foundations for Nursing Practice</td>
<td>3</td>
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<tr>
<td>NURS 6610</td>
<td>Advanced Evidence Application</td>
<td>3</td>
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<tr>
<td>NURS 6655</td>
<td>Advanced Leadership</td>
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<td>NURS 7720</td>
<td>Professional Issues of the DNP</td>
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<td>NURS 7723</td>
<td>Health Promotion and Disease Prevention for Advanced Practice Nurses</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7725</td>
<td>Informational Technology in Health Care</td>
<td>2</td>
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<tr>
<td>NURS 7735</td>
<td>Statistical Analysis in Evidence Based Practice</td>
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<td>NURS 7760</td>
<td>Professional Issues of the DNP II</td>
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<td>NURS 8809</td>
<td>Rural and Global Communities in Society</td>
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<td>NURS 8826</td>
<td>Advanced Scientific Writing</td>
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<tr>
<td>NURS 7790</td>
<td>DNP Scholarly Project (384 project hours)</td>
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Family Nurse Practitioner

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<tr>
<td>NURS 6642</td>
<td>Primary Care of the Young Adult</td>
<td>3</td>
</tr>
<tr>
<td>NURS 6642L</td>
<td>Primary Care of the Young Adult Lab (96 clinical hours)</td>
<td>2</td>
</tr>
<tr>
<td>NURS 6643</td>
<td>Primary Care of the Child and Adolescent</td>
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</table>
The student must comply with the following:

1. Application to the Graduate School AND to the School of Nursing with payment of appropriate fees (separate application process).
2. Submission of official transcripts of all degrees including completion of an accredited nursing program. Official transcripts must be sent directly to the Graduate School from the Registrar’s Office of the applicant’s previous institution(s) of study.
3. Evidence of completing prerequisite descriptive or inferential statistics course with a C grade or higher prior to admission to the program.
4. Submission of a professional essay (2-3 pages).
5. Three professional reference forms attesting to the applicant’s capacity and potential for Master’s study. (It is recommended two references be from academic sources and one from a recent employer.)
6. Submission of professional vitae or resume.

The SON Admission Committee will make the final recommendation regarding admissions. This decision will be based on evaluation of established admission and application requirements for any program.

Individuals who do not meet these admissions requirements may be considered from admissions as a classified student with program restrictions until all requirements are met, or candidate is evaluated for progress based on established SON guidelines, policies, and/or procedures.

**Required Coursework**

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<td>Health Policy</td>
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<td>Advanced Evidence Application</td>
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<td>NURS 6612</td>
<td>Health Care of Rural Communities</td>
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<td>NURS 6613</td>
<td>Health Assessment</td>
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<td>NURS 6621</td>
<td>Advanced Nursing Roles</td>
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<td>NURS 6633</td>
<td>Rethinking Nursing Education</td>
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<td>NURS 6635</td>
<td>Curriculum Issues and Development</td>
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<td>NURS 6640</td>
<td>Evaluation Issues and Strategies in Nursing Education</td>
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<td>NURS 6639</td>
<td>Teaching and Learning Strategies in Nursing Education</td>
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<tr>
<td>NURS 6647</td>
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**Electives**

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<tr>
<td>NURS 6644</td>
<td>Primary Care of the Middle and Older Adult</td>
<td>3</td>
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<tr>
<td>NURS 6644L</td>
<td>Primary Care of the Middle and Older Adult (96 clinical hours)</td>
<td>2</td>
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<tr>
<td>NURS 7740</td>
<td>Primary Care Throughout the Life Span FNP</td>
<td>1</td>
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<tr>
<td>NURS 7740L</td>
<td>Primary Care Throughout the Life Span Lab FNP (192 clinical hours)</td>
<td>4</td>
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<tr>
<td>NURS 7780</td>
<td>FNP Practicum (192 clinical hours)</td>
<td>4</td>
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**Psychiatric Mental Health Nurse Practitioner**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>NURS 7745</td>
<td>Adult Psychiatric Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7745L</td>
<td>Adult Psychiatric Mental Health Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NURS 7755</td>
<td>Child/Adolescent Psychiatric Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7755L</td>
<td>Child/Adolescent Psychiatric Mental Health Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NURS 7795</td>
<td>Individual, Group, and Brief Therapies</td>
<td>4</td>
</tr>
<tr>
<td>NURS 7798</td>
<td>PMHNP Advanced Practicum</td>
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**Total Option Specific Credits**

<table>
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<tr>
<th>Credits</th>
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<tr>
<td>18</td>
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**Total Clinical Hours**

<table>
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<th>Total Clinical Hours</th>
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<tbody>
<tr>
<td>14</td>
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</table>

**Master of Science in Nursing**

The Master of Science in Nursing (M.S.) program is offered online and requires 43 credits. A full time program is available in the Nursing Education option. Delivery of a Master’s degree program option in any academic year is based on number of total applicants and ability to establish a full cohort at the time of the admission process as determined by SON.

**Pathway to the M.S. degree**

Bachelor of Science (BS) to Master of Science (MS). Students enrolled in the Nursing Education option will be prepared to teach in an academic nursing program as well as in other settings.

Application for the Master of Science degree options open in October of any academic year. Preference will be given to applications submitted by February 1 of any year. Notification of successful applicants for admission and alternates will be announced April 14 of any year.

**Admission Requirements**

The student must apply to and meet all requirements for admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with the following:

1. Earned Bachelor of Science (BS or BSN) from program accredited by the Commission on Collegiate Nursing Education (CCNE) or the Accreditation Commission for Education in Nursing (ACEN).
2. Cumulative GPA of 3.0 or higher (calculated based on previous 60 credits of undergraduate coursework).
3. Evidence of completing prerequisite descriptive or inferential statistics course with a C grade or higher prior to admission to the program.
   a. Satisfactory TOEFL requirements for admission include:
      i Internet-based total test score of 80 with a score of at least 20 on each Section and 23 or above on the Speaking Section; or
      ii Computer-based total test score of 213 with a score of at least 21 on Section 1 (Listening Comprehension); or
      iii Paper-based total test score of 550 with a score of at least 55 on section 1 (Listening Comprehension).
   b. Satisfactory IELTS requirement for admission include scoring 6.5 or higher on the total band and 6.5 on the speaking test component.
4. Completed application to the SON by established deadline.
5. Verification of valid and current unencumbered Registered Nursing license.

**Application Requirements**

The student must apply to and meet all requirements for admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with the following:

1. Application to the Graduate School AND to the School of Nursing with payment of appropriate fees (separate application process).
2. Submission of official transcripts of all degrees including completion of the Bachelor of Science in Nursing (BSN or BS in Nursing) degree from an accredited nursing program. Official transcripts must be sent directly to the Graduate School from the Registrar’s Office of the applicant’s previous institution(s) of study.
3. Evidence of completing prerequisite descriptive or inferential statistics course with a C grade or higher prior to admission to the program.
4. Submission of a professional essay (2-3 pages).
5. Three professional reference forms attesting to the applicant’s capacity and potential for Master’s study. (It is recommended two references be from academic sources and one from a recent employer.)
6. Submission of professional vitae or resume.

The SON Admission Committee will make the final recommendation regarding admissions. This decision will be based on evaluation of established admission and application requirements for any program.

Individuals who do not meet these admissions requirements may be considered from admissions as a classified student with program restrictions until all requirements are met, or candidate is evaluated for progress based on established SON guidelines, policies, and/or procedures.
Total Practicum Hours 336
Total Option Credits 40-43

Progression of Graduate Students

1. Progression criteria established by the SON and Graduate School. Each degree program or option has specific progression requirements established within the SON. These policies are made available in specific program option Student Handbooks provided upon admission. Students are admitted and enter into an established curricular plan of study and must maintain that plan of study in order to progress.

Graduation Criteria

To qualify for graduation with a graduate degree (M.S., D.N.P., or Ph.D.) from the School of Nursing, the student must:

1. Successfully pass a written and oral comprehensive examination or equivalent as established by the School of Nursing.
2. Meet all requirements established by ISU, the Graduate School, and the School of Nursing specific to the degree program in which the student is enrolled.

Courses

NURS 5517 Interdisciplinary Evaluation Team: 1 semester hour.
Introduction to the principles and techniques associated with interdisciplinary evaluation. Disciplines emphasized: Audiology, Nursing, Physical Therapy, Psychology, Social Work, Special Education, Speech-Language Pathology. Equivalent to DHS 5517, PSYC 5517, SOWK 5517, and CSD 5517

NURS 5580 Genetics for Health Care Professionals: 2 semester hours.
An in-depth interdisciplinary review of the impact of genetics on patients and patient care and the biological, social, ethical and legal issues surrounding genetics and genomics. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. Equivalent to CSD 5580 and NURS 5580

NURS 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

NURS 6600 Theoretical Foundations for Nursing Practice: 3 semester hours.
Critical examination of the development of nursing knowledge critique, evaluate and apply a variety of theories from nursing, family and related disciplines as a base for advanced nursing practice

NURS 6602 Health Policy: 3 semester hours.
Analysis of policy research relevant to health care. Evaluate effects of local, regional, national, and international health policy and trends on delivery systems and care of rural and diverse populations. PREREQ: NURS 6600

NURS 6610 Advanced Evidence Application: 3 semester hours.
Analysis of current evidence for application to nursing practice. Includes question formulation, comprehensive review of evidence related to clinical issues, evidence appraisal, and application for research-informed practice. PREREQ: NURS 6600

NURS 6611 Advanced Health Assessment: 2 semester hours.
Concepts of advanced health assessment required for advanced nursing practice in various settings and diverse populations. Introduction to differential diagnosis and clinical reasoning skills. COREQ: NURS 6600 and NURS 6611L. PREREQ: BIOL 5563

NURS 6611L Advanced Health Assessment Lab: 2 semester hours.
Acquisition and application of advanced health assessment, skills in diverse populations. Skills include health history, physical assessment and health promotion. Graded S/U. COREQ: NURS 6611. PREREQ: BIOL 5563

NURS 6612 Health Care of Rural Communities: 2 semester hours.
Explores rural culture using theories, frameworks and methodologies from various disciplines. Focus on culturally responsive care systems at the community level. Rural life analyzed to identify factors related to health systems and health care practice needs. PREREQ: NURS 6610

NURS 6613 Health Assessment: 2 semester hours.
Concepts of health assessment for practice in various settings and with diverse populations. COREQ: NURS 6613L

NURS 6613L Health Assessment Lab: 1 semester hour.
Acquisition and application of advanced health assessment skills in diverse populations. Skills include health history, physical assessment, health promotion, and pharmacological evaluation in practice. COREQ: NURS 6613

NURS 6621 Advanced Nursing Roles: 2 semester hours.
Integration of theory and research related to role development, transition and ambiguity in advanced practice nursing. Emphasis on evaluation of health care delivery, ethical decision-making, partnership development, collaborative practice and accountability for quality. PREREQ: NURS 6600

NURS 6633 Rethinking Nursing Education: 3 semester hours.
Theoretical perspective on teaching and learning in nursing education, creating a theoretical base for the education curriculum. The learners will examine theories of learning and adult learning and explore their application to nursing education

NURS 6635 Curriculum Issues and Development: 3 semester hours.
Examination of various external and internal issues influencing nursing curriculum. Curriculum components and designs will be explored and a model curriculum developed. PREREQ: NURS 6633

NURS 6636 Special Problems: 1-3 semester hour.
Independent study under faculty guidance. 1-3 credits. May be repeated up to 6 credits. PREREQ: Permission of instructor

NURS 6639 Teaching and Learning Strategies in Nursing Education: 3 semester hours.
Exploration of a variety of strategies to facilitate achievement of curriculum outcomes. The use of current technology and learner-centered strategies are emphasized. PREREQ: NURS 6633

NURS 6640 Evaluation Issues and Strategies in Nursing Education: 3 semester hours.
Examination of issues surrounding program and student evaluation. Plans for formative and summative evaluation will be developed. PREREQ or COREQ (if full-time): NURS 6633

NURS 6642 Primary Care of the Young Adult: 3 semester hours.
Management and evaluation of primary care problems in the young adult. Provides the student with knowledge to assist individuals with common health problems, while integrating the concepts of health promotion. COREQ: NURS 6642L. PREREQ: NURS 6611, NURS 6611L, and PHAR 6645

NURS 6642L Primary Care of the Young Adult Lab: 2 semester hours.
Delivery of advanced nursing care to young adults and their families. Clinical application of theoretical knowledge with ongoing refinement of essential skills used by nurse practitioners in primary health care. Identification and management of a broad range of common health problems including health promotion in various clinical settings. Graded S/U. COREQ: NURS 6642. PREREQ: NURS 6611, NURS 6611L, and PHAR 6645
NURS 6643 Primary Care of the Child and Adolescent: 3 semester hours. Management and evaluation of primary care problems of children, adolescents and their families in a variety of ambulatory settings. The initiation of health promotion and health maintenance activities is stressed. COREQ: NURS 6643L. PREREQ: NURS 6642 and NURS 6642L.

NURS 6643L Primary Care of the Child and Adolescent Lab: 2 semester hours. Delivery of advanced nursing care to children and adolescents and their families. Clinical application of theoretical knowledge with ongoing refinement of essential skills used by nurse practitioners in primary health care. Identification and management of a broad range of common health problems including health promotion in various clinical settings. Graded S/U. COREQ: NURS 6643. PREREQ: NURS 6642 and NURS 6642L.

NURS 6644 Primary Care of the Middle and Older Adult: 3 semester hours. Management and evaluation of primary care problems of middle and older adults, including acute episodic and chronic illnesses. The initiation of health promotion and maintenance activities is stressed. COREQ: NURS 6644L. PREREQ: NURS 6642 and NURS 6642L.

NURS 6644L Primary Care of the Middle and Older Adult Lab: 2 semester hours. Delivery of advanced nursing care to middle and older adults and their families. Clinical application of theoretical knowledge with ongoing refinement of essential skills used by nurse practitioners in primary health care. Identification and management of a broad range of common health problems including health promotion in various clinical settings. Graded S/U. COREQ: NURS 6644. PREREQ: NURS 6642 and NURS 6642L.

NURS 6647 Advanced Practicum in Nursing Education: 6 semester hours. Application of learning theories, strategies and evaluation in a nursing program. The learners will explore and practice various facets of the faculty role. Graded S/U. PREREQ: NURS 6633, NURS 6635, NURS 6639, and NURS 6640.

NURS 6652 Administrative Approaches to Nursing Leadership: 3 semester hours. Synthesis and evaluation of organizational theory in leadership and management of health care organizations. Emphasis on system-wide structures, processes, and outcomes. COREQ: NURS 6600.

NURS 6653 Organizational Behavior in a Changing Health Care System: 3 semester hours. Examination of administration and organizational behavior in relation to population-based needs. Includes examination of organization and management theory in relation to strategic planning, management of the changing health care delivery system, program planning and evaluation, decision-making, and change. PREREQ: NURS 6600 and NURS 6652.

NURS 6654 Financial Management: 3 semester hours. Application of basic strategies for evaluating financial resources for health care systems; models of forecasting, prediction, and politics of budgeting and healthcare finances.

NURS 6655 Advanced Leadership: 3 semester hours. Examination of nursing leadership in health care delivery systems. Theoretical knowledge required for program management and interprofessional collaboration. Examination of quality and risk management, legal and ethical implications, shared governance, and conflict management. COREQ: NURS 6655L. PREREQ: NURS 6600, NURS 6610, and NURS 6653.


NURS 6656 Advanced Leadership Practicum: 4 semester hours. Critical examination and application of leadership in health care delivery systems with an emphasis on individualized leadership experiences. Graded S/U. PREREQ: NURS 6652, NURS 6653, NURS 6654, NURS 6655, and NURS 6655L.

NURS 6657 Advanced Adult Gerontology Health Nursing I: 3 semester hours. Physiological concepts of health and illness and the role of the Clinical Nurse Specialist in assisting patients, families, and caregivers to manage simple health situations in adult and geriatric populations. COREQ: NURS 6657L. PREREQ: NURS 6611 and NURS 6611L.

NURS 6657L Advanced Adult Gerontology Health Nursing I Lab: 2 semester hours. Delivery of advanced nursing care to adult and geriatric populations and their families. Clinical application of theoretical knowledge with ongoing refinement of essential skills used by the clinical nurse specialists. Management of simple health situations in various clinical settings. Graded S/U. COREQ: NURS 6657. PREREQ: NURS 6611 and NURS 6611L.

NURS 6658 Advanced Adult Gerontology Health Nursing II: 3 semester hours. Physiological concepts of health and illness and the role of the Clinical Nurse Specialist in assisting patients, families, and caregivers to manage complex health situations in specialty adult and geriatric populations. COREQ: NURS 6658L. PREREQ: NURS 6657 and NURS 6657L.

NURS 6658L Advanced Adult Gerontology Health Nursing II Lab: 2 semester hours. Delivery of advanced nursing care to adult and geriatric population and their families. Clinical application of theoretical knowledge with ongoing refinement of essential skills used by clinical nurse specialists. Management of complex health situations in various clinical settings. Graded S/U. COREQ: NURS 6658. PREREQ: NURS 6657 and NURS 6657L.

NURS 6699 Experimental Course: 1-6 semester hour. This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

NURS 7720 Professional Issues of the DNP: 3 semester hours. Introduction to DNP-related professional issues including DNP background, APRN role development, and interprofessional practice. Exploration of current and emerging healthcare issues.

NURS 7723 Health Promotion and Disease Prevention for Advanced Practice Nurses: 3 semester hours. Critical examination and implementation of therapeutic interventions employed in disease prevention and health maintenance, protection, promotion, and restoration across age and culture in various populations, with focus on the role of the advanced practice nurse in primary care. PREREQ: BIOL 5563, NURS 6600, NURS 6611 and NURS 6611L, PHAR 6645.

NURS 7725 Informational Technology in Health Care: 2 semester hours. Application of technologies and information systems to evaluate and improve health care outcomes. Exploration of information technologies in clinical practice, education, research, and administration will be emphasized with a focus on transformation of data into information.

NURS 7735 Statistical Analysis in Evidence Based Practice: 3 semester hours. Exploration of bio-statistical methods used in implementing and evaluating health care-related research. Legal and ethical issues in research are addressed. PREREQ: NURS 6610.

NURS 7740 Primary Care Throughout the Life Span FNP: 1 semester hour. Integration of advanced nursing care for patients and families across the lifespan. Application and evaluation of primary care management of complex diagnoses and system foci.
NURS 7740L Primary Care Throughout the Life Span Lab FNP: 4 semester hours.  
Delivery of advanced nursing care to patients and families across the lifespan.  
Clinical application and evaluation of theoretical knowledge and skills used by  
the nurse practitioner in primary health care at a more complex level. Includes  
focus on systems individualized by each student. PREREQ: NURS 6642 and  
NURS 6642L, NURS 6643 AND NURS 6643L, NURS 6644 AND NURS 6644L,  
NURS 7723. COREQ: NURS 7740

NURS 7745 Adult Psychiatric Mental Health: 3 semester hours.  
Assessment, diagnosis, treatment, planning, evaluation and documentation of  
common mental health problems and major psychiatric disorders of adulthood.  
COREQ: NURS 7745L. PREREQ: NURS 6611/6611L and NURS 6645

NURS 7745L Adult Psychiatric Mental Health Practicum: 2 semester hours.  
Clinical application and evaluation of theoretical knowledge, evidence, and skills  
used by the PMHNP in caring for the adult in varied care settings. COREQ:  
NURS 7745. PREREQ: NURS 6611/6611L and NURS 6645

NURS 7750 Advanced Adult and Geriatric Health Concepts ACNS: 2 semester hours.  
Exploration of advanced health care concepts relating to adult and geriatric  
populations for the Adult/Geriatric Clinical Nurse Specialist (ACNS)

NURS 7750L Advanced Adult and Geriatric Health Concepts Lab ACNS: 3 semester hours.  
Implementation of advanced nursing care concepts to adult and geriatric  
population in various clinical settings. PREREQ: NURS 6657 and NURS 6657L,  
NURS 6658 and NURS 6658L, NURS 7723. COREQ: NURS 7750

NURS 7755 Child/Adolescent Psychiatric Mental Health: 3 semester hours.  
Assessment, diagnosis, treatment, planning, evaluation and documentation of  
common mental health problems and major psychiatric disorders of the child  
and adolescent. COREQ: NURS 7755L. PREREQ: NURS 6611/6611L, NURS 6645,  
NURS 7723, NURS 7745, and NURS 7745L

NURS 7755L Child/Adolescent Psychiatric Mental Health Practicum: 2 semester hours.  
Clinical application and evaluation of theoretical knowledge, evidence and skills  
used by the PMHNP in caring for the child/adolescent in varied care settings.  
COREQ: NURS 7755. PREREQ: NURS 6611/6611L, NURS 6645, NURS 7723,  
NURS 7745, and NURS 7745L

NURS 7760 Professional Issues of the DNP II: 3 semester hours.  
Integration of DNP-related professional issues including the APRN's role in  
the initiation and evaluation of change in patient care, interprofessional practice  
and current and emerging health care issues. Transition into the APRN role is  
emphasized. PREREQ: NURS 7720

NURS 7780 FNP Practicum: 4 semester hours.  
Application of theoretical content, research findings and intervention strategies  
to advanced nursing practice in both rural and non-rural settings. PREREQ: NURS  
7723, NURS 6642 and NURS 6642L, NURS 6643 and NURS 6643L, NURS  
6644 and NURS 6644L, and NURS 8809

NURS 7785 Advanced CNS Practicum: 4 semester hours.  
Synthesis and application of clinical specialty and ACNS role knowledge and  
skills in adult-geriatric populations. PREREQ: NURS 6637 and NURS 6637L,  
NURS 6658 and NURS 6658L, NURS 7750 and NURS 7750L, NURS 8809

NURS 7790 DNP Scholarly Project: 1-3 semester hour.  
Synthesis of scientific evidence and theoretical principles within a practice  
environment to improve health care outcomes. Incorporation of knowledge of  
current and emerging health care technologies to improve care delivery and  
organizational systems for groups and populations. Requires a minimum of eight  
credit hours over four semesters. May be repeated

NURS 7795 Individual, Group, and Brief Therapies: 4 semester hours.  
Survey of current, brief, psychodynamic, cognitive behavioral, and interpersonal  
therapy models applied to individuals and groups. Developing a therapeutic  
alliance, and viewing the client from a developmental and sociocultural context  
will be examined. PREREQ: NURS 6611/6611L, NURS 6645, NURS 7723,  
NURS 7745, NURS 7745L, NURS 7755, NURS 7755L

NURS 7798 PMHNP Advanced Practicum: 4 semester hours.  
Synthesis and application of PMHNP role, knowledge, and skills in select areas  
of family psychiatric mental health practice. PREREQ: NURS 6611/6611L,  
NURS 6645, NURS 7723, NURS 7745, NURS 7745L, NURS 7755, NURS  
7755L

NURS 8805 Philosophy of Inquiry: 3 semester hours.  
Discusses the nature and characteristics of philosophical inquiry for researchers.  
This course will include conceptual clarification, analysis of arguments and  
problems related to the ontology, epistemology and ethics of health care and  
nursing

NURS 8808 Theoretical Analysis Nursing Science: 3 semester hours.  
This course focuses on the relationship of theory to research with an emphasis  
on applying theory in the design, implementation, and interpretation of research.  
Students will develop an understanding of the evaluation of theory, utility in  
research and ability to compare research strategies from different theoretical  
perspectives. Emphasis will be placed on multidisciplinary midrange theories  
that are relevant to clinical research. The course will provide the foundation for  
learners to create new approaches and paradigms of advanced nursing science.  
PREREQ: NURS 8805

NURS 8809 Rural and Global Communities in Society: 2 semester hours.  
Explores rural culture using theories, frameworks, and methodologies from  
various disciplines. Focus on culturally responsive methodologies. Rural life  
analyzed to identify factors related to health systems and health care practice  
needs. Students critique rural research articles for use of conceptual frameworks  
and generate researchable questions related to rural/global nursing practice issues

NURS 8813 Advanced Qualitative Analysis: 3 semester hours.  
This course focuses on the study of research that guides the collection  
and analysis of qualitative data. The course provides an overview of  
qualitative methods such as phenomenology, grounded theory, case study,  
ethnography, hermeneutics and historical approaches. Emphasis is placed on  
the appropriateness of each approach for description and explanation of phenomena  
encountered in clinical, organizational, and educational settings. Experience is  
provided in problem formulation and development of the qualitative research  
proposal

NURS 8814 Advanced Statistics Multivariate: 3 semester hours.  
This course provides an understating of how to interpret multivariate analysis  
and their associated techniques including (1) data reduction (principal components,  
factor analysis, and cluster analysis), (2) discrimination and classification  
(cluster analysis, discriminant analysis), and (3) hypothesis testing (multivariate  
regression, multivariate analysis of variance, logistic regression). PREREQ:  
Evidence of completing prerequisite descriptive or inferential statistics course  
with a C grade or better within three (3) years previous to admission to the Ph.D.  
program

NURS 8815 Advanced Quantitative Analysis: 3 semester hours.  
This course focuses on quantitative research methods with an emphasis on  
research designs appropriate for studying health care phenomena. Some of the  
methods include descriptive, comparative, correlational, survey, methodological,  
epidemiological, experimental and quasi-experimental designs, clinical trials,  
longitudinal and secondary analysis. Research designs and related statistical  
analyses are explored with respect to appropriateness for addressing rural and  
global health care relative to individuals, families, and communities in society.  
PREREQ: NURS 8814
**NURS 8816 Advanced Statistical Methods:** 3 semester hours.
The focus of this course will be on developing a conceptual understanding of the uses and interpretation of statistics involving the differences between and among populations (groups) including t-tests, one way ANOVA, multivariable ANOVA and MANOVA, analysis of Covariance (ANCOVA and MANCOVA), and repeated measures ANOVA. Computer applications such as SPSS will be utilized. PREREQ: NURS 8814 and NURS 8815

**NURS 8825 Grant and Scholarly Writing:** 2 semester hours.
This course provides the foundation upon which to build skills for grant writing grant applications from seeking appropriate mechanisms for accomplishing the dissertation through the completion of a grant application. Students will use this course to develop a pre-doctoral proposal such as a National Research Service Award (NRSA)

**NURS 8826 Advanced Scientific Writing:** 2 semester hours.
Explore process of scholarly writing, strategies for dissemination including publication in peer-reviewed journals

**NURS 8830 Mixed Methods Health Care Research:** 3 semester hours.
Research approaches combining quantitative and qualitative research methods will be applied to examine complex clinical and other problems and health behaviors. The course will provide an overview and introduction to mixed methods/multi-method research designs. PREREQ: NURS 8813, NURS 8814, NURS 8815, NURS 8816

**NURS 8835 Mentored Research Project:** 4 semester hours.
This course is designed to give the student actual research experience in research outside the dissertation. Interprofessional teamwork and collaboration are encouraged. Students may participate as a team member in their mentor's research. Activities may include developing a research proposal, preparing a protocol for Human Subjects’ Committee submission, assisting with recruitment or data collection, learning data management skills, conducting literature searches and participating in team meetings

## Physician Assistant Studies

Chair and Program Director: Phelps
Associate Director: Sparrell
Medical Director: Anstett, D'Souza, McClusky
Associate Professors: Phelps
Assistant Professors: Forbes, Johnson, Martin, Mirly, Papa, Sierra, Smith, Talford
Clinical Instructor: Allen

www.isu.edu/paprog

### Master of Physician Assistant Studies (MPAS)

Physician Assistants (PAs) are highly skilled health practitioners who work under physician supervision to provide patient care services. PAs take complete medical histories, perform physical examinations, order and interpret diagnostic studies, such as laboratory tests and x-rays, diagnose and treat patients. Physician Assistants improve the accessibility of health care of under-served individuals in both urban and rural settings. The Physician Assistant Program at Idaho State University is the only PA Program in the state of Idaho.

### The Program

The Physician Assistant (PA) Program at Idaho State University awards the Master's of Physician Assistant Studies (MPAS) degree and a PA certificate upon successful completion of its 24 month graduate curriculum. A class of 72 students is enrolled each fall semester with 30 seats located at the Pocatello campus, 30 seats located at the Meridian campus, and 12 seats located at the College of Idaho campus in Caldwell.

The program maintains continued accreditation by the Accreditation Review Commission on Education for the Physician Assistant, Inc., (ARC-PA). Graduates of the program are eligible to take the Physician Assistant National Certification Examination (PANCE) which is administered by the National Commission for Certification of Physician Assistants (NCCPA).

### Vision & Mission

Idaho State University Department of Physician Assistant Studies is the preferred educational destination for individuals who desire to be trained in a student-centered, service-oriented environment.

The mission of the Idaho State Physician Assistant program is to train PAs through service-oriented, multimodal, innovative learning. Graduates from ISU's PA Program will be highly competent, compassionate health care providers dedicated to serving individuals and their communities.

### Admission Requirements

1. **Baccalaureate Degree:** A Baccalaureate degree needs to be completed by June 30th of the year you plan to enter the PA Studies program. It must be from a regionally accredited U.S. institute of higher learning.

The program is dedicated to serving individuals and their communities.

PA Program will be highly competent, compassionate health care providers dedicated to serving individuals and their communities.
2. Prerequisite Courses: Required courses must also be completed at a regionally accredited U.S. institute of higher learning. The required prerequisite courses are:

- Microbiology
- Biochemistry
- Human Anatomy (as a single course or as part of a two semester combined anatomy and physiology course)
- Human Physiology (as a single course or as part of a two semester combined anatomy and physiology course)
- Statistics
- Abnormal Psychology (or Developmental Psychology throughout the Lifespan)

Applicants must have a minimum cumulative prerequisite grade point average of 3.0 as well as a minimum grade of C in all prerequisite courses (listed above). Course work ten years or older is not accepted as prerequisite coursework. Applicants may have up to two prerequisite courses in progress during spring of the year they plan to enter the program. This course work and any degree work must be completed by June 30 of the year of admission.

Highly Recommended Upper Level Biology Courses
(Note: This is not meant to be all inclusive and includes suggestions only.)

| Advanced Anatomy |  
|------------------|---
| BIOL 4420        | Musculo-Skeletal Anatomy 2 |
| BIOL 4470        | Cross-Sectional Anatomy 2 |

| Advanced Human Physiology |  
|---------------------------|---
| BIOL 3304                 | Comparative Vertebrate Morphology and Physiology 5 |
| BIOL 4449                 | Human Physiology I 4 |
| BIOL 4456                 | Human Physiology II 4 |
| BIOL 4464                 | Lectures in Human Physiology 4 |
| BIOL 4486                 | Human Systemic Physiology 5 |

| Immunology |  
|------------|---
| BIOL 4451  | Immunology 3 |
| BIOL 4454  | Advanced Immunology 3 |

| Genetics |  
|----------|---
| BIOL 3358 | Genetics 3 |
| BIOL 4461 | Advanced Genetics 3 |

| Endocrinology |  
|--------------|---
| BIOL 4443    | Endocrinology 3 |

- Other health-related courses from departments such as Psychology, Sociology, Anthropology, Health Education, and Gender Studies.
- Proficiency in a foreign language, especially Spanish

Additional considerations for admission include:

- Maturity
- Work and health care experience
- Evidence of the ability to achieve academic success in a rigorous academic program
- Interpersonal skills and the ability to relate effectively with patients, peers and at a professional level
- Evidence of a desire to practice primary care in Idaho, particularly among the medically underserved

Required Applications

Central Application Services for Physician Assistants (https://caspa.liaisoncas.com/)

The CASPA application must be completed by the PA program application deadline of November 1. As part of the CASPA application process you will be required to submit three letters of recommendations and official transcripts.

Graduate Record Exam (GRE) (http://www.ets.org)

The GRE is an important admission requirement as the scores are used for ranking applicants. Please go to ETS website for information about testing locations and scheduling the exam.

The GRE must be taken by November 1. The ISU GRE School Code is 4355 and the Department Code is 0634.

ISU Graduate School Application (www.isu.edu/graduate)

The ISU Graduate School application (also called the “Supplemental Application”) is required for admission to the PA program. When applying to the Graduate School, select the Fall semester. Please refer to the ISU Graduate School for information regarding the application, requirements, and fees.

CASPA DOES NOT forward transcripts to the Graduate School or the PA program. A separate set of official transcripts must be requested for ISU’s Graduate School.

Official transcripts are to be sent directly to the Graduate School at the following address:

ISU Graduate School
921 S 8th Ave, Stop 8075
Pocatello, ID 83209-8075

The Graduate School application deadline is November 1.

Technical Standards

All entering students must meet the required list of Technical Standards. A complete list of technical standards covering essential capacities for observation, communication, sensory and motor function, intellectual, conceptual, integrative and quantitative abilities, behavioral and social attributes, and other student performance requirements is available from the program or on the program’s website at http://www.isu.edu/paprog/technical-standards.shtml.

Curriculum

The ISU PA Program Graduate Curriculum is twenty-four (24) months in length, divided into twelve (12) months of didactic (3 semesters) and twelve (12) months of clinical education (3 semesters).

The Didactic Curriculum is comprised of foundation courses in the fall semester, followed in the spring and summer semesters by modules that provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine.

Elective course work in Medical Spanish is available to Physician Assistant students. The Department of Languages & Literatures offers a graduate certificate in Spanish for Health Professions along with other elective courses. This is an excellent opportunity for students as well as graduates to enhance their credentials.

Clinical Year Rotation goals are designed to meet the needs of the student and to address the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA) accreditation standards. The Clinical
Year staff places students in eight rotations which best address PA student educational objectives and at sites which promote continued, quality, preceptor relations with the ISU PA Program. There are several required content areas which include Internal Medicine, Outpatient Medicine, Obstetrics and Gynecology, Pediatrics, Emergency Medicine, Surgery and Psychiatry. One rotation will be an elective. Students are expected to travel during the clinical year and to pay for the expenses incurred for this travel.

There are three Capstone Assessment Courses in the second year of the PA Program. Together they represent a comprehensive assessment of the students. The Capstone Assessment III course is the third one in the series and students are required to study for and pass multiple objective examinations.

Medical Spanish elective offerings available to MPAS students

The Department of Languages and Literatures, in cooperation with the Division of Health Sciences, has created a new cooperative, interdisciplinary major in Spanish for the Health Professions (SHP), as well as a SHP graduate certificate. The hybrid undergraduate degree and graduate certificate are designed to increase graduate marketability and to better serve the health care needs of our state, region, and country.

Matriculated PA students may take individual SHP courses or pursue a Graduate Certificate in SHP. Dr. Helen Tarp, Director of the SHP Program has a joint appointment with the Department of Languages and Literature and the Department of PAS. She teaches regularly scheduled Spanish courses for PAS students during the Didactic Year as well as other Spanish coursework in the Literature and Languages Department.

Access to individual Spanish for Health Professions courses

Theses SHP courses are designed to be flexible enough to fit a PA student’s schedule and also enhance what the PA student is learning in the MPAS curriculum. Here are examples of the course offerings: SPAN 5594 Topics in Language and Culture for the Professions I (1-3 cr), and SPAN 5595 Topics in Language and Culture for the Professions II (1-3 cr) are variable-credit courses covering special topics such as Spanish Medical Terminology, Spanish for Pharmacy, for OBGYN, Diabetes Management, Oral Health, Mental Health, Emergency Room/Trauma, the Physical Exam, and Nutrition. These courses are hybrid courses combining online coursework and a workshop experience with mock patients. SPAN 5501, Spanish for the Physician Assistant, is an eight week-course designed specifically for PAS to enable students to conduct a medical history and physical exam for a Spanish-speaking patient. PA students wishing to take these courses S/U may take them as undergraduate courses (SPAN 4494, SPAN 4495, SPAN 4499). A more complete listing of the individual courses can be found at: http://www.isu.edu/foreign/hcp_currentofferings.shtml.

Graduate Certificate in SHP (minimum of 9 credits)

Coursework credits counting toward the Graduate Certificate can be earned by approved pre-PA school coursework and experience, PAS coursework/clinical rotations, as well as coursework and experience obtained after graduation. There are three core areas of instruction: the Language Core, Health Professions Core, and Culture Core. The assessments in the three cores of instruction are designed to provide students with a thorough grounding in all three areas, and to have their proficiency be a significant, tangible contribution to their MPAS degree. The Department of Languages and Literatures provides the Language Core and elements of the Culture Core which are delivered by faculty with qualifications in medical interpretation and translation. The Culture Core and diversity courses are provided by several departments in the College of Arts and Letters. For more details see: http://www.isu.edu/foreign/curriculum.shtml.

International Rotation and Medical Mission experiences

In addition to course offerings and the Graduate Certificate in SHP, MPAS students are eligible to participate in two medical missions to Spanish-speaking countries (Dominican Republic and Peru) and an international clinical rotation in Belize. These international experiences are strictly voluntary. SHP credit (SPAN 5593 Spanish Internship, SPAN 5505 Spanish Exchange, or SPAN 5580 Special Topics) is available for these experiences.

Courses

PAS 5589 Individual Problems in PAS: 1-3 semester hour. Assigned on the basis of interest, preparation, and faculty availability. Participation in this course in no way influences opportunity to be accepted into the PA Program. May be repeated for up to 3 credits. PREREQ: Approval of PA Director.

PAS 5599 Experimental Course: 1-6 semester hour. This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

PAS 6601 Introduction to Physician Assistant: 7 semester hours. Provides an introduction to the physician assistant profession, health promotion/ disease prevention, medical ethics, medical imaging, laboratory medicine, and medical decision-making.

PAS 6602 Evidence-Based Medicine and Biostatistics: 3 semester hours. Emphasizes use of current research evidence in medical decision-making, a practice known as evidence-based medicine. Topics include critical analysis of the medical literature, biostatistics, and application of EBM to patient care.

PAS 6603 Clinical Assessment: 6 semester hours. Provides an introduction to medical interviewing and techniques for performing and recording a complete medical history and physical examination.
PAS 6604 Pharmacology: 2 semester hours.
An introduction to foundational concepts of therapeutic pharmacology, with emphasis on pharmacokinetics and pharmacodynamics.

PAS 6630 Allergy and Immunology Module: 1 semester hour.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6631 Infectious Disease Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6632 Hematology and Oncology Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6633 Endocrinology Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6634 Renal Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6635 Pulmonary Module: 3 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6636 Cardiology Module: 4 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6637 Gastroenterology Module: 4 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6638 ENT Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6639 Dermatology Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6640 Rheumatology Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6641 Orthopedics Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6642 Psychiatry Module: 3 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6643 Genitourinary Module: 4 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6644 Ophthalmology Module: 1 semester hour.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6645 Neurology Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6646 Neurology Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6647 Human Sexuality Module: 1 semester hour.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6648 Womens Health Module: 1 semester hour.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6649 Mens Health and Urology Module: 1 semester hour.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6650 Obstetrics and Perinatology Module: 1 semester hour.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.

PAS 6651 Pediatrics Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U.
Family Practice Residency Program

The Idaho State University Family Practice Residency is a postgraduate training program for physicians who have an M.D. or D.O. degree. The program is affiliated with the medical schools of the University of Washington and the University of Utah and is accredited by the Accreditation Council for Graduate Medical Education. The HealthWest Pocatello Family Medicine Clinic, located on the Idaho State University campus, is the outpatient training site; hospital rotations are scheduled at Portneuf Medical Center.

Accepting seven residents per year, the program trains Family Physicians to practice in rural Idaho. The curriculum includes family medicine, obstetrics/gynecology, surgery, internal medicine, pediatrics, geriatrics, emergency medicine, community medicine, behavioral science, rural medicine, orthopedics, and other subspecialties.

For more information, please contact:

Family Medicine Residency Program
465 Memorial Drive
Idaho State University
Pocatello, Idaho 83201-8357
(208) 282-4508
Internet: www.fmed.isu.edu
Email: fammed@fmed.isu.edu

Curriculum Overview

First Year

PAS 6652 Geriatrics Module: 1 semester hour.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U

PAS 6653 Surgery Module: 2 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U

PAS 6654 Emergency Medicine Module: 8 semester hours.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U

PAS 6655 Alternative and Occupational Medicine Module: 1 semester hour.
Lectures, laboratory practicum, problem-based learning, small group discussions, research methods, evidence-based medicine, and service learning are integrated to provide an immersion experience in the diagnosis and treatment of diseases commonly encountered in primary care medicine. May be graded S/U

PAS 6656 Comprehensive Evaluation: 1 semester hour.
An end-of-didactic-year comprehensive evaluation of the physician assistant student's knowledge, skills, abilities, and professional behavior. The student must receive a grade of satisfactory in order to progress to the clinical year of the program

PAS 6660 Clinical Rotation I: 4 semester hours.
Supervised clinical practicum in medical practice settings. PREREQ: Successful completion of all PAS didactic year requirements

PAS 6661 Clinical Rotation I: 4 semester hours.
Supervised clinical practicum in primary care or specialty care in medical practice settings. Graded S/U. PREREQ: Successful completion of all PAS didactic year requirements

PAS 6662 Clinical Rotation II: 4 semester hours.
Supervised clinical practicum in primary care or specialty care in medical practice settings. Graded S/U. PREREQ: PAS 6661

PAS 6663 Clinical Rotation III: 4 semester hours.
Supervised clinical practicum in primary care and/or specialty care in medical practice settings. Graded S/U. PREREQ: PAS 6662

PAS 6664 Clinical Rotation IV: 4 semester hours.
Supervised clinical practicum in primary care and/or specialty care in medical practice settings. Graded S/U. PREREQ: PAS 6663

PAS 6665 Clinical Rotation V: 4 semester hours.
Supervised clinical practicum in primary care and/or specialty care in medical practice settings. Graded S/U. PREREQ: PAS 6664

PAS 6666 Clinical Rotation VI: 4 semester hours.
Supervised clinical practicum in primary care and/or specialty care in medical practice settings. Graded S/U. PREREQ: PAS 6665

PAS 6667 Clinical Rotation VII: 4 semester hours.
Supervised clinical practicum in primary care and/or specialty care in medical practice settings. Graded S/U. PREREQ: PAS 6666

PAS 6668 Clinical Rotation VIII: 4 semester hours.
Supervised clinical practicum in primary care and/or specialty care in medical practice settings. Graded S/U. PREREQ: PAS 6667

PAS 6669 Graduate Special Topics: 1-4 semester hour.
Special topics in specific areas of physician assistant studies which may include didactic and/or clinical studies. May be repeated up to 14 credits

PAS 6670 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated
Communication Sciences and Disorders

Devine, Associate Dean and Director, School of Rehabilitation and Communication Sciences

Chair and Professor: Kangas

Associate Chair and Professor: Johnson

Professor: Seikel

Associate Professors: Brockett, Sanford

Assistant Professors: Altieri, Bargen, Blaiser, Hudock, Ogiela, Ramsdell-Hudock

Clinical Professor: Guryan, Holst, Loftin, Whitaker

Clinical Associate Professor: Knudson

Clinical Assistant Professors: Hansen, Hardy, Melton, Miller, E. Morgan, W. Morgan, O’Donnell, Pierce Ament, C. Smith, S. Smith, Stone, Tucker, Van Donsel

Doctor of Audiology (Au.D.)

Accreditation

The Doctor of Audiology (Au.D.) is accredited by the Council on Academic Accreditation (CAA) in Audiology and speech-Language Pathology (http://www.asha.org/academic/).

Degree Programs

Degree programs offered by the Department of Communication Sciences and Disorders include:

Doctor of Audiology (Au.D.)

Master of Science in Speech-Language Pathology (M.S.)

Doctor of Audiology (Au.D.)

Admission Requirements

For admission to the Doctor of Audiology program, the applicant must:

1. Have an earned Baccalaureate degree with a major in communication sciences and disorders, or a Baccalaureate degree in any major with equivalent Post-Baccalaureate coursework in communication sciences and disorders.

2. Possess a 3.0 or higher GPA. The method of calculating an Admission GPA is based on the last 60± semester undergraduate credits (90± quarter credits) for coursework taken during the last two years of undergraduate training. Post-Baccalaureate coursework in communication sciences and disorders will be considered in computing GPA.

3. Obtain score of 40th Percentile or better on at least one area of the GRE.

4. Submit three letters of recommendation.

5. Apply through Communication Sciences and Disorders Centralized Application Service at www.csdcas.org. (http://www.csdcas.org)

6. Apply to, and meet all criteria for, admission to Graduate School.

The Graduate School criteria include:

<table>
<thead>
<tr>
<th>GPA(last 60 credits)</th>
<th>Standardized Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5 to 4.000</td>
<td>No standardized test</td>
</tr>
<tr>
<td>3.0 to 3.499</td>
<td>(GRE/MAT) required 40th Percentile on at least one area of the GRE or Percentile on the MAT</td>
</tr>
<tr>
<td>2.5 to 2.999</td>
<td>Combined Verbal and Quantitative (V+Q) score 1000 on GRE or 45th of Percentile on the MAT</td>
</tr>
<tr>
<td>below 2.499</td>
<td>No admission</td>
</tr>
</tbody>
</table>

International Students

International students whose native language is not English must achieve at least the 50th percentile on the Verbal section of the GRE. Applicants whose first language is not English need to meet the following TOEFL requirements for Classified admission:

1. Internet-based test (iBT): a total score of 80 with a score of at least 20 on each Section (graduate assistants who teach courses must score 23 or above on the Speaking Section) on the iBT; or

2. Computer-based test: a total score of 213 with a score of at least 21 on Section 1 (Listening Comprehension) on the computer test; or
Doctor of Audiology (Au.D.) (Regular 4 year)

Curriculum
The curriculum is four years in duration, and includes one year (fourth year) of full-time clinical practicum. There are eight regular (fall and spring) semesters and three summer semesters. For the third year, students will be required to relocate to the ISU Meridian campus to continue their academic and clinical instruction in a robust audiology community. Students will assume the financial, housing, and logistical responsibilities of the relocation.

Program Capacity
An average of 24 students are in the program at any time. The number of seats available for each new cohort will vary. On average six (6) students are admitted per year. Classes begin in the Fall Semester of each year. Meeting entry-level requirements for admission does not guarantee a seat in the program.

Admission Requirements
1. Have an earned Baccalaureate degree with a major in communication sciences and disorders, or a Baccalaureate degree in any major with equivalent Post-Baccalaureate coursework in communication sciences and disorders.
2. Possess a 3.0 or higher GPA. The method of calculating an Admission GPA is based on the last 60± semester undergraduate credits (90± quarter credits) for coursework taken during the last two years of undergraduate training. Post-Baccalaureate coursework in communication sciences and disorders will be considered in computing GPA.
3. Obtain score of 40th Percentile or better on at least one area of the GRE.
4. Submit three letters of recommendation.
5. Apply through Communication Sciences and Disorders Centralized Application Service at www.csdcas.org. (http://www.csdcas.org)
6. Apply to, and meet all criteria for, admission to Graduate School.

General Requirements
Students receiving the degree of Doctor of Audiology must have satisfactorily completed all courses in the curriculum and passed all clinical practicum assignments. In addition, in the fall semester of the third year, the student must pass the written comprehensive examination, and then in the spring, an oral comprehensive examination that includes defense of the doctoral project. Students must take and pass the national Praxis prior to beginning the fourth year. According to university regulations, no student may be granted a graduate degree who does not have a 3.0 grade point average for courses listed on the Program of Study upon completion of all academic work. The Department of Communication Sciences and Disorders, and Education of the Deaf will terminate the graduate program of any student who has received grades of C+ or lower in two or more departmental courses, or if the cumulative GPA falls below 2.7 in the first year of study, or 3.0 by the completion of graduate studies. If a student's graduate education is terminated for reasons of poor academic performance, the student may reapply for admission no sooner than one full semester following the semester of dismissal.

Additionally, graduate students deemed by the faculty not to have made satisfactory progress in the acquisition of clinical skills may be required to enroll for further credits in clinical practicum in addition to the minimum required of all students. Students may be dismissed for failure to make satisfactory progress in clinical practicum.

Master of Science in Speech-Language Pathology

Admission Requirements
For admission to the M.S. degree program in Speech-Language Pathology the applicant must:

1. Have an earned Baccalaureate degree with a major in communication sciences and disorders, or a Baccalaureate degree in any major with equivalent Post-Baccalaureate coursework in communication sciences and disorders.
2. Possess a 3.0 or higher GPA. The method of calculating an Admission GPA is based on the last 60± semester undergraduate credits (90± quarter credits) for coursework taken during the last two years of undergraduate training. Post-Baccalaureate coursework in communication sciences and disorders will be considered in computing GPA.
3. Obtain score of 40th Percentile or better on at least one area of the GRE.
4. Submit three letters of recommendation.
5. Apply through Communication Sciences and Disorders Centralized Application Service at www.csdcas.org. (http://www.csdcas.org)
6. Apply to, and meet all criteria for, admission to Graduate School.

International Students
International students whose native language is not English must achieve at least the 50th percentile on the Verbal section of the GRE. Applicants whose first language is not English need to meet the following TOEFL requirements for Classified admission:

3. Paper-based test: a total score of 550 with a score of at least 55 on Section l (Listening Comprehension) on the paper test or a score of 84 on the MTELP, or a score of 6 on the IELTS. Once admitted, non-native English-speaking students must also receive a passing score on a test of spoken English to participate in clinic.

Course List

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSD 6605</td>
<td>Internship in Audiology</td>
<td>1-8</td>
</tr>
<tr>
<td>CSD 6611</td>
<td>Advanced Auditory Assessment and Speech Audiology</td>
<td>4</td>
</tr>
<tr>
<td>CSD 6612</td>
<td>Aud Rehab and Amplification III</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6613</td>
<td>Principles of Research in Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6614</td>
<td>Clinical Practicum Audiology</td>
<td>1-4</td>
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<tr>
<td>CSD 6631</td>
<td>Clinical Practicum Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>CSD 6646</td>
<td>Aud Rehab and Amplification II</td>
<td>2</td>
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<tr>
<td>CSD 6647</td>
<td>Aud Rehab and Amplification II Lab</td>
<td>1</td>
</tr>
<tr>
<td>CSD 6648</td>
<td>Aud Rehab and Implants</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6652</td>
<td>Auditory Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6656</td>
<td>Central Auditory Processing</td>
<td>2</td>
</tr>
<tr>
<td>CSD 6657</td>
<td>Auditory Physiology of Speech and Non Speech Signals</td>
<td>2</td>
</tr>
<tr>
<td>CSD 6658</td>
<td>Hearing Conservation in Noise</td>
<td>2</td>
</tr>
<tr>
<td>CSD 6662</td>
<td>Counseling in Audiology</td>
<td>2</td>
</tr>
<tr>
<td>CSD 6692</td>
<td>Comprehensive Seminar</td>
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<tr>
<td>CSD 6693</td>
<td>Hearing Assistive Technology Systems</td>
<td>1</td>
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<tr>
<td>CSD 7705</td>
<td>Off Campus Clinical Practicum</td>
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<tr>
<td>CSD 7705L</td>
<td>Off Campus Clinical Practicum Laboratory</td>
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<tr>
<td>CSD 7710</td>
<td>Advanced Topics in Aud Rehab</td>
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<td>CSD 7720</td>
<td>Audiology Practice Management and Dispensing</td>
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<tr>
<td>CSD 7730</td>
<td>Advanced Auditory Evoked Potential Audimetry</td>
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<td>CSD 7740</td>
<td>Advanced Vestibular and Balance Function Assessment</td>
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<tr>
<td>CSD 8805</td>
<td>Fourth Year Externship</td>
<td>1-8</td>
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<tr>
<td>CSD 8810</td>
<td>Clinical Project</td>
<td>1-6</td>
</tr>
</tbody>
</table>

1  or CSD 6691 if IET was taken as an undergraduate
2  If a student has not taken IET, she/he may take it as a graduate student
1. Internet-based test (iBT): a total score of 80 with a score of at least 20 on each Section (graduate assistants who teach courses must score 23 or above on the Speaking Section) on the iBT; or
2. Computer-based test: a total score of 213 with a score of at least 21 on Section 1 (Listening Comprehension) on the computer test; or
3. Paper-based test: a total score of 550 with a score of at least 55 on Section 1 (Listening Comprehension) on the paper test or a score of 84 on the MTEL, or a score of 6 on the IELTS. Once admitted, non-native English-speaking students must also receive a passing score on a test of spoken English to participate in clinic.

**Speech-Language Pathology Emphasis**

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSD 6600</td>
<td>Principles of Research in Communication Disorders</td>
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<tr>
<td>CSD 6602</td>
<td>Clinical Practicum Speech-Language</td>
<td>11</td>
</tr>
<tr>
<td>&amp; CSD 6604</td>
<td>and Off Campus Practicum</td>
<td></td>
</tr>
<tr>
<td>CSD 6606</td>
<td>Externship in Speech Language Pathology</td>
<td>8</td>
</tr>
<tr>
<td>CSD 6614</td>
<td>School Age Language Development and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6616</td>
<td>Augmentative and Alternative Communication</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6620</td>
<td>Early Language Development and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6622</td>
<td>Speech Sound Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6624</td>
<td>Disorders of Swallowing</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6625</td>
<td>Advanced Issues in Language Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6629</td>
<td>Neuropathologies of Speech</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6630</td>
<td>Fluency Disorders in Children and Adults</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6632</td>
<td>Craniofacial Anomalies</td>
<td>2</td>
</tr>
<tr>
<td>CSD 6634</td>
<td>Voice Disorders</td>
<td>2</td>
</tr>
<tr>
<td>CSD 6639</td>
<td>Neurogenic Disorders of Language and Cognition</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6648</td>
<td>Professional Issues in Speech Language Pathology</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6650</td>
<td>Thesis (optional)</td>
<td>6</td>
</tr>
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</table>

**Non-Thesis students select one elective from the following courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSD 6636</td>
<td>Medical/School Practice in Speech Language Pathology</td>
<td>3</td>
</tr>
<tr>
<td>CSD 6651</td>
<td>Master's Paper</td>
<td></td>
</tr>
<tr>
<td>CSD 6691</td>
<td>Topical Seminar</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours**

59-62

Note that an adequate undergraduate background is assumed for entry to the graduate curriculum in speech-language pathology. When meeting with an advisor, if deficiencies are found, such as lack of a basic course, the student may be required to make up the course. An advisor must be consulted during registration week. Note also that an undergraduate or graduate course in statistics or experimental design is required if not previously taken in an undergraduate program, as is CSD 5517 Interdisciplinary Evaluation Team.

Students in the Graduate Program in Speech-Language Pathology must have the following ISU courses or their equivalents from another institution, or provide evidence from course syllabi that the basic information was covered in their undergraduate program. Certain of these courses may be taken during the graduate program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CSD 3315</td>
<td>Clinical Processes Pediatric</td>
<td>3</td>
</tr>
<tr>
<td>CSD 3321</td>
<td>Clinical Phonetics and Phonology</td>
<td>3</td>
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<tr>
<td>CSD 3321L</td>
<td>Clinical Phonetics and Phonology Lab</td>
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<tr>
<td>CSD 3325</td>
<td>Speech Sound Development and Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CSD 3330</td>
<td>Language Science and Development</td>
<td>3</td>
</tr>
<tr>
<td>CSD 3335</td>
<td>Language Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CSD 3341</td>
<td>Audiology and Hearing Science</td>
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</tr>
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</table>

<table>
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<tr>
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<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CSD 4405</td>
<td>Neuroscience for Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CSD 4417</td>
<td>Interdisciplinary Evaluation Team</td>
<td>1</td>
</tr>
<tr>
<td>CSD 4420</td>
<td>Clinical Processes Adult</td>
<td>3</td>
</tr>
<tr>
<td>CSD 4435</td>
<td>Speech and Hearing Science</td>
<td>3</td>
</tr>
<tr>
<td>CSD 4435L</td>
<td>Speech and Hearing Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CSD 4445</td>
<td>Aural Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>CSD 4460</td>
<td>Educational Audiology</td>
<td>3</td>
</tr>
</tbody>
</table>

**General Requirements**

Students must pass written and oral comprehensive examinations. For the Master of Science in Speech-Language Pathology the written exam may be fulfilled by either a portfolio or a thesis.

According to the university regulations, no student may be granted a graduate degree who does not have a 3.0 grade point average for courses listed on the program of study upon completion of all academic work. In addition, the Department of Communication Sciences & Disorders will terminate the graduate program of any student who has received grades of C+, or lower, in two or more departmental courses, or if the cumulative GPA falls below 2.7 in the first year of study and 3.0 by the completion of graduate studies. If a student’s graduate education is terminated for reasons of poor academic performance, he/she may reapply for admission no sooner than one full semester following the semester of dismissal.

Students with inadequate backgrounds in speech pathology and audiology may be required to take up to one year of undergraduate course work in addition to the above courses. In addition to the required graduate courses, students may have to take other courses in the department and related areas such as psychology and statistics. In addition to taking clinical practice (CSD 6602, CSD 6603, or CSD 6604) in the department, all graduate students must complete a minimum of an eight-week, full-time externship in some professional program or agency. Exceptions may be made depending on the student’s background. Graduate students deemed by the faculty not to have made satisfactory progress in the acquisition of clinical skills may be required to enroll for further credits in clinical practicum in addition to the minimum required of all students. Students may be dismissed for failure to make satisfactory progress in clinical practicum.

**Courses**

<table>
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<tr>
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<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CSD 5505</td>
<td>Neurological Bases of Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>CSD 5517</td>
<td>Interdisciplinary Evaluation Team</td>
<td>1</td>
</tr>
<tr>
<td>CSD 5520</td>
<td>Clinical Processes Adult</td>
<td>3</td>
</tr>
<tr>
<td>CSD 5540</td>
<td>Special Topics Workshop</td>
<td>1-3</td>
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</tbody>
</table>

Diagnostic principles, procedures, tests and clinical examination in the evaluation of speech, language and hearing disorders. Covers norms, reliability and validity. PREREQ: PSYC 4445, CSD 3315, and Statistics and/or approval of instructor

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<td>CSD 5540</td>
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Diagnostic principles, procedures, tests and clinical examination in the evaluation of speech, language and hearing disorders. Covers norms, reliability and validity. PREREQ: PSYC 4445, CSD 3315, and Statistics and/or approval of instructor
CSD 5560 Educational Audiology: 3 semester hours.
Overview of school-based audiology services and the educational audiology model of service provision including working within the public school system, legal issues, and options for providing comprehensive services to children with hearing loss and their families

CSD 5570 Advanced Topics in Educational Audiology: 3 semester hours.
An in-depth study and application of audiological services for school age students, evaluation of laws pertaining to public school services, exploration of working with families and educational personnel, verification and validation of hearing assistive technology, and creation of evaluation protocols

CSD 5580 Genetics for the Health Care Professionals: 2 semester hours.
An in-depth interdisciplinary review of the impact of genetics on patients and patient care and the biological, social, ethical, and legal issues surrounding genetics and genomics. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. Equivalent to DHS 5580 and NURS 5580

CSD 5582 Independent Study: 1-4 semester hour.
Study of problems selected by students and faculty. May be repeated for up to 8 credits

CSD 5591 Seminar: 1-4 semester hour.
Reading, preparation, and discussion of reports and projects in all areas of speech and hearing science, speech pathology and audiology. May be repeated for up to 12 credits

CSD 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May be repeated. May not be applied to graduate degrees. May be graded S/U

CSD 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

CSD 6600 Principles of Research in Communication Disorders: 3 semester hours.
Methodology including quantitative and qualitative approaches to research and use of evidence-based practice. Use of informational resources to develop a research proposal. PREREQ: Statistics or permission of instructor

CSD 6602 Clinical Practicum Speech-Language: 1-4 semester hour.
Students, under supervision, gain experience in the diagnosing, staffing, programming, and counseling of cases with speech and language disorders. May be repeated up to 16 credits. PREREQ: Approval of Clinic Director

CSD 6602L Clinical Practicum Laboratory: 0 semester hours.
Weekly staffing, grand rounds discussion, and professional presentations of new trends in speech pathology

CSD 6603 Clinical Practicum Audiology: 1-4 semester hour.
Students gain experience in diagnosing, programming, and counseling cases with hearing disorders, and implementing rehabilitation programs for persons with hearing losses. May be repeated for up to 13 credits. PREREQ: Approval of advisor and Audiology Clinic Coordinator. COREQ: CSD 6603L

CSD 6603L Clinical Practicum Laboratory: 0 semester hours.
Weekly staffing, grand rounds discussion, and professional presentations of new trends in audiology. COREQ: CSD 6603

CSD 6604 Off Campus Practicum: 1-4 semester hour.
Designed to provide clinical experience under supervision of speech-language pathologist within placement setting. Placements include private clinics, hospitals, residential care facilities, developmental centers, and schools. May be repeated for up to 16 credits. Graded S/U. PREREQ: Approval of Clinic Director

CSD 6605 Externship in Audiology: 1-8 semester hour.
Eight week off-campus placement that can be split between two summers. Final approval is the responsibility of the clinic director. Each student should obtain a minimum of 100 clock hours of clinical experience per eight week externship. May be repeated. Graded S/U. COREQ: CSD 7705L. PREREQ: Clinic Director Approval

CSD 6606 Externship in Speech Language Pathology: 4-9 semester hour.
Designed to give Speech-Language Pathology students full-time practical experience in a professional setting, i.e., schools, hospitals, clinics, and private practices. May be repeated for up to 18 credits. Graded S/U. PREREQ: Completion of academic program

CSD 6611 Advanced Auditory Assessment and Speech Audiometry: 4 semester hours.
Thorough study in the historical and clinical aspects of fundamental audiological procedures such as pure-tone air- and bone-conduction testing, speech audiometry, and masking

CSD 6614 School Age Language Development and Disorders: 3 semester hours.
Advanced study of language development and disorders in school-age children and youth. Methods of assessing later language disorders in educational settings. PREREQ: CSD 6620

CSD 6616 Augmentative and Alternative Communication: 3 semester hours.
Functional approaches to enhancing communication for people with severe disabilities. Includes introduction to electronic communication devices, low technology strategies, empowering clients, and inclusive practices. PREREQ: CSD 6620

CSD 6620 Early Language Development and Disorders: 3 semester hours.
Study of language development and disorders in children (0-5 years of age). Includes theories of development and disorders, assessment and intervention of child and environment. PREREQ: CSD 3330 and CSD 3335 and/or equivalent

CSD 6621 Aud Rehab and Amplification I: 3 semester hours.
Introduction to practice of audiologic rehabilitative patient care with an emphasis on acoustic hearing aids. Basic instrument design, component, and coupling features of various wearable amplification devices will be included. Assessment of patient candidacy, fitting protocols, and outcome measures

CSD 6622 Speech Sound Disorders: 3 semester hours.
Characteristics of children with speech sound disorders. Current approaches to assessment and theoretically-based treatment of speech sound errors, including multicultural applications. PREREQ: CSD 3325 or permission of instructor

CSD 6623 Pediatric Audiology: 3 semester hours.
Advanced study of hearing disorders and hearing test procedures in children. Topics include development of the auditory mechanism, auditory pathologies, developmental milestones, auditory testing, differential diagnosis, and management

CSD 6624 Disorders of Swallowing: 3 semester hours.
Assessment and treatment of disorders associated with all stages of swallowing in adults and children. Includes oromyofunctional, oral preparatory, oral, pharyngeal, and esophageal swallowing disorders. PREREQ: CSD 4435 or permission of instructor

CSD 6625 Advanced Issues in Language Disorders: 3 semester hours.
Critical issues in childhood language disorders including linguistic and cultural diversity, classroom-based strategies, and children with mental retardation, autism, learning disability and deafness. PREREQ: CSD 6614 or equivalent

CSD 6626 Introduction to Balance Function Assessment: 1 semester hour.
Introduction to the assessment of the patient with dizziness and/or balance concerns. Emphasis will be on videonystagmography procedures, interpretation of findings, and communication to the referral source
CSD 6629 Neuropathologies of Speech: 3 semester hours.
Examines etiologies, characteristics, assessment and treatment of dysarthria, apraxia, and right-hemisphere dysfunction. PREREQ: CSD 4405 or permission of instructor

CSD 6630 Fluency Disorders in Children and Adults: 3 semester hours.
Advanced study of assessment and treatment for fluency disorders in adults and children. Includes theory, developmental issues, cluttering, and specific treatment for adults and children

CSD 6631 Immittance/Special Assessment: 3 semester hours.
Study of immittance and other special audiological tests used in site of lesion (differential) diagnostic work ups. Background, rationale, administration, and interpretations of immittance and other special tests will be considered along with the concept of Clinical Decision Analysis (CDA)

CSD 6632 Craniofacial Anomalies: 2 semester hours.
Consideration of the speech-language pathologist's role in the habilitation of patients with craniofacial anomalies. Clefs of the lip and palate are discussed. Team approaches to assessment and management are presented

CSD 6633 Introduction to Evoked Potential Audiometry: 3 semester hours.
Introduction to the study of evoked potential audiometry and otoacoustic emissions. Emphasis will be on the physiologic processes and instrumentation

CSD 6634 Voice Disorders: 2 semester hours.

CSD 6635 Speech Audiometry: 1 semester hour.
Review of basic and advanced audiometric tests which utilize speech as an approach to hearing assessment. Course treatment includes historic development of speech tests and description of psychophysical principles which underlie speech audiometry

CSD 6636 Medical/School Practice in Speech Language Pathology: 3 semester hours.
Examines methods and practices specific to medical and school settings. Includes billing procedures, record keeping, referral procedures, ethics, treatment models related to settings, caseload management, Interdisciplinary Education program requirements, legal mandates, collaborative strategies, and inclusive practices. PREREQ: CSD 6614 or CSD 6639 or equivalent

CSD 6639 Neurogenic Disorders of Language and Cognition: 3 semester hours.
Etiologies, characteristics, assessments, and treatment of aphasia, traumatic brain injury, and dementia

CSD 6641 Aud Rehab and Amplification II: 2 semester hours.
Continuation of wearable amplification technology with focus on advanced signal processing, prescriptive fitting rationales, and programming software. Objective and subjective verification and validation methodologies as well as patient orientation, adjustment, and care of devices will be included. COREQ: CSD 6641L. PREREQ: CSD 6621

CSD 6641L Aud Rehab and Amplification II Lab: 1 semester hour.
Experiential learning activities with hearing aid programming software, ANSI test measures, Real Ear Measurements (REM), and hearing aid repair. COREQ: CSD 6641. PREREQ: CSD 6621

CSD 6643 Aud Rehab and Implants: 3 semester hours.
Patient candidacy evaluations, surgical procedures, fitting, and programming of FDA-approved implantable technologies for the hearing impaired patient. Patient orientation, troubleshooting, and operation of devices as well as validation and verification of outcomes will be included. PREREQ: CSD 6621 and CSD 6641

CSD 6645 Auditory Anatomy and Physiology: 2 semester hours.
Comprehensive treatment of the anatomy, physiology, and neuroanatomy of the auditory system from the outer ear to the auditory cortex

CSD 6646 Central Auditory Processing: 2 semester hours.
This course will review the anatomical and neurophysiological aspects of auditory processing. The nature and causes of auditory processing disorders in children and adults will be discussed including disorder symptoms, assessment, treatment, clinical management and referrals. The impact of auditory processing disorders on language and learning will be discussed as well as differential diagnosis, the collaborative model, counseling, and advocacy

CSD 6647 Auditory Physiology of Speech and Non Speech Signals: 2 semester hours.
Continuation of advanced study of the auditory system, including central pathways, auditory perception of speech and non-speech signals, and psychoacoustics, with focus on pitch and loudness phenomena, masking, and binaural effect. PREREQ: CSD 6645

CSD 6648 Professional Issues in Speech Language Pathology: 3 semester hours.
Advanced preparation for professional practice in speech-language pathology. Includes study of policies and practices in employment settings, service delivery models, ethics, counseling, and supervision. PREREQ: Two semesters of CSD 6602

CSD 6650 Thesis: 1-9 semester hour.
Research project under supervision of academic faculty member. May be repeated. Graded S/U. PREREQ: Ability to deal with technical literature, proven writing ability; approval of advisor and instructor

CSD 6651 Master's Paper: 1-3 semester hour.
Major paper or project synthesizing aspects of a specialized area of speech-language pathology, audiology, or education of the deaf. A large component of the paper must reflect the student's own original thinking. May be repeated. Graded S/U

CSD 6652 Auditory Language Learning: 3 semester hours.
This course examines the development of speech and hearing in children who are hard of hearing or deaf. Focus is placed on how children with hearing impairments differ in their learning of language compared to children with normal hearing. Language strategies for use by professionals serving deaf and hard of hearing children to promote language learning will also be discussed

CSD 6670 Auditory Pathologies: 3 semester hours.
Study and discussion of a wide range of auditory and vestibular pathologies. Emphasis will be placed on the relationship between the pathology and the corresponding audiometric findings

CSD 6673 Introduction to Audiology Clinical Processes: 1 semester hour.
The basic study of electronics, sounds, acoustics, instrumentation, calibration and hands-on activities using a wide variety of audiology equipment

CSD 6675 Hearing Conservation in Noise: 2 semester hours.
Hearing conservation programs from historical and current model perspectives. Additionally, measurement of sound, OSHA and other applicable regulations, and the effects of noise on human hearing will be discussed

CSD 6680 Counseling in Audiology: 2 semester hours.
Examination of the role of personal adjustment counseling in audiology. Students review counseling theory and the application of counseling techniques to patient interactions

CSD 6691 Topical Seminar: 1-4 semester hour.
Reading and discussions involving subjects of concern. May be repeated up to 12 credits
CSD 6692 Comprehensive Seminar: 1 semester hour.
A guided and systematic review of academic content, knowledge of audiolingual systems, testing, materials, diagnosis, and theories. This course concludes with the program's summative examination.

CSD 6693 Hearing Assistive Technology Systems: 1 semester hour.
An examination of Hearing Assistive Technology Systems (HATS) focused on the different types, applications, fitting considerations, and verification/validation measures. Students will gain hands-on experience with a variety of current systems.

CSD 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.

CSD 7705 Off Campus Clinical Practicum: 1-4 semester hour.
These externships, referred to as 3rd-year rotations, are for the two semesters of the third year. Students will rotate through one experience every eight weeks or two per semester. Affiliation agreements and placement decisions are arranged by the externship coordinator. May be repeated. Graded S/U; COREQ: CSD 7705L.

CSD 7705L Off Campus Clinical Practicum Laboratory: 1 semester hour.
Staffing seminar conducted online with students in clinical experience settings. May be repeated. Graded S/U; PREREQ: CSD 6603.

CSD 7710 Advanced Topics in Aud Rehab: 3 semester hours.
Advanced topics include rehabilitation issues in central auditory processing disorders, tinnitus, and pharmacology. Audiolingual rehabilitation outcome measures and efficacy will be included. PREREQ: CSD 6621, CSD 6641, and CSD 6643.

CSD 7720 Audiology Practice Management and Dispensing: 3 semester hours.
Ethics and professional issues in various practice settings, including multicultural considerations, licensure, certification, best practice, outcome measures, hearing aid dispensing, liability, malpractice, marketing, and practice/business management. PREREQ: CSD 6641 and CSD 6643.

CSD 7730 Advanced Auditory Evoked Potential Audiometry and Early Identification: 3 semester hours.
Comprehensive discussion of advanced evoked potentials including test protocols, measurement, and interpretation. Topics in early identification of individuals with hearing loss will also be covered. PREREQ: CSD 6633.

CSD 7740 Advanced Vestibular and Balance Function Assessment: 3 semester hours.
Advanced vestibular and balance function assessment including underlying causes of balance disorders, rotary chair, computerized posturography, VEMP, advances in VNG/ENG technology, and collaborative approaches to vestibular rehabilitation. PREREQ: CSD 6633.

CSD 8805 Fourth Year Externship: 1-8 semester hour.
Full time placement designed to provide the student with a breadth and depth of clinical experience equivalent to one year of full-time work (approximately 2,000 hours). Students must enroll for three semesters minimum. Students are responsible for identifying potential sites and working with externship coordinator to arrange affiliation agreements. Final approval is the responsibility of the externship coordinator. May be repeated. Graded S/U; COREQ: CSD 7705L.

CSD 8810 Clinical Project: 1-6 semester hour.
Clinically-based scholarly project completed under the supervision of the audiology faculty. May be repeated for a total of 6 credits. Graded S/U.

### Physical and Occupational Therapy

**Chair and Associate Professor:** Creelman

**Occupational Therapy Program Director and Associate Professor:** Gee

**Associate Professors:** Creelman, Devine, Gee, Jackman, Seiger, Thompson

**Assistant Professors:** Alexander, Gerber, Kendall, Lloyd, Peterson, Ralphs

#### Program Mission

The primary mission of the Department of Physical and Occupational Therapy is to provide entry-level education in a supportive learning environment fostering diverse and interdisciplinary didactic and clinical experiences, clinical skills acquisition, and a desire for lifelong learning to enhance the delivery of physical therapy services and the profession. Further, the program emphasizes faculty and student enrichment through scholarly endeavors, teaching, service, and clinical practice contributions within their areas of expertise.

#### Degree Programs

Degree programs offered by the Department of Physical and Occupational Therapy include:

- Doctor of Physical Therapy (DPT)
- Master Occupational Therapy (MOT)

#### Doctor of Physical Therapy

The graduate entry-level program in Physical Therapy is a professional entry level program designed to prepare students for licensure to practice as physical therapists. The program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association.

The Doctor of Physical Therapy program (DPT) was granted re-accreditation status by the Commission on Accreditation in Physical Therapy Education (CAPTE) in October 2006. Prospective students having questions about the program's accreditation status should contact:

Commission on Accreditation of Physical Therapy Education
111 North Fairfax Street
Alexandria, VA 22314
accreditation@apta.org
(703)684-2782 or (703)706-3245

#### Admission Requirements

The student must apply to, and meet all criteria for admission to the Graduate School. In addition, the following conditions must be met:

1. Completion of bachelor’s degree from a college or university accredited in the United States or its equivalent from a school in another country. (Must complete degree before onset of classes in PT Program of the Fall Semester in year of acceptance.)
2. Grade point average of 3.0 or above on the equivalent of the most recent four full-time semesters of academic work. GPA is calculated on upper division courses only.
3. Grade point average of 3.0 or above in each prerequisite set of science courses. Please contact the Department of Physical Therapy for clarification.
4. Applicants must take the Graduate Record Examination (GRE) or Miller Analogies Test (MAT).
   a. GRE must meet the following requirements to be competitive: A total combined score of at least 295 in the verbal and quantitative portions. Verbal must be at least a 148. Minimum of 4.0 on the analytical portion.
   b. For GREs taken before August 2011 the following is required: A total combined score of at least 950 in the verbal and quantitative portions. Verbal must be at least 400. Minimum of 4.0 on the analytical portion.
   c. MAT must meet the following requirements to be competitive: A total score of 390.
   d. Applicants whose first language is not English need to meet the following TOEFL requirements for Classified admission:
      i. Internet-based test (iBT): a total score of 80 with a score of at least 20 on each section (graduate assistants who teach courses must score 23 or above on the Speaking Section) on the iBT; or
      ii. Computer-based test: a total score of 213 with a score of at least 21 on Section 1 (Listening Comprehension) on the computer test; or
      iii. Paper-based test: a total score of 550 with a score of at least 55 on Section 1 (Listening Comprehension) on the paper test or a score of 84 on the MTEL, or a score of 6 on the IELTS.
   e. Applicants with scores lower than the requirements will not be considered.
   f. The scores of the GRE/MAT/TOEFL must be received by the Graduate School by the application deadline (November 15) for an application to be considered. The ISU code for these three tests is: 4355.

5. At least 80 hours of salaried or voluntary experience in two or more physical therapy practice settings. Experience must be supervised and documented by licensed physical therapists. This experience must have occurred within the last five years.

6. Three letters of recommendation. Two letters must be from licensed physical therapists under whom the student has obtained hours of experience. One letter must be from a professor.

The admissions committee reviews all applicants on a competitive case-by-case basis during any admissions cycle. Qualified applicants may be invited for a personal interview with physical therapy admissions committee. Prospective applicants should contact the department for specific descriptions of the above general requirements.

A maximum of 26 students are admitted to the program each year. Classes begin in the Fall Semester of each year. Meeting entry level requirements for admission does not guarantee a seat in the program. Admission is on a competitive basis, and a majority of the seats are offered to Idaho residents. Please contact the Department of Physical Therapy for details.

General Requirements

The curriculum is 3 years in duration and includes 5 clinical affiliations. There are 6 semesters and 2 full-time summer sessions encompassing a total of 101 credits. The clinical affiliations mandate student travel and housing with the usual expenses borne by the student. Out-of-state travel for affiliations is required.

Doctor of Physical Therapy Curriculum

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Total Hours: 106-110

1. Minor curriculum changes and progression alteration may occur without notice in line with accreditation standards.

Degree and Licensure Requirements

Students receiving the degree of Doctor of Physical Therapy must satisfactorily complete all courses in the curriculum, prepare and present study papers on a regular basis, prepare and present a professional project, attend and successfully complete all clinical affiliations, and satisfactorily pass comprehensive oral and written departmental examinations. For state licensure, students must have met the degree requirements and pass the National Board Examinations for Physical Therapy.

NOTE: Admitted students should be aware that some required external clinical rotation sites will require criminal background and drug checks. In addition, students who have a record of criminal activity may have difficulty procuring a license to practice in some states after completing the program.

Grade Requirements

The Graduate School and the Department of Physical and Occupational Therapy requires that an overall GPA of 3.0 be maintained in all graduate course work and all clinical affiliations must be completed with an S (satisfactory) grade. In addition, the Department of Physical and Occupational Therapy will terminate the graduate program of any student who has received grades of “B- or lower” in more than 6 credits or a maximum of two program courses. Students should consult specific departmental grading policies for specific information.

Master of Occupational Therapy

The graduate entry level program in Occupational Therapy is a professional entry level program preparing students for licensure to practice as occupational therapists. The following information provides the specific requirements for applying to the Idaho State University Occupational Therapy (OT) Program.
Occupational therapy is a profession that uses occupation to promote well-being and health among people of all ages and abilities. Occupations are goal-directed, meaningful pursuits that occupy a person's time each day. Occupations include work and productive activities, self care or care of others, and leisure/recreational activities. Occupational therapists adapt the environment, tasks, or techniques to meet individual needs while helping each client develop new skills necessary to function productively. Occupational therapists view every aspect of a client's life as important to his/her health.

Occupational therapy seeks to improve the quality of life for individuals who are at risk for physical, cognitive, mental or psychosocial impairments. Demand for occupational therapy will increase to address the needs of a growing population of aging adults, children with developmental disabilities and those who struggle with traumatic injuries and illness. When one experiences physical or mental illness or injury, it is the job of the occupational therapist to help the individual return to work, family roles and satisfying life.

The curative nature of occupational therapy is extremely broad and requires individuals with an interest in the complexity of humanity and occupations. One also needs an ability to think critically and creatively and be able to address occupational performance problems resulting from disease, trauma and mental illness. To be well prepared, a student must enter the profession with a foundation in the liberal arts, biological, physical, and social sciences.

### Admission Requirements

Students can be admitted into the Master of Occupational Therapy (MOT) program by applying to, and meeting all criteria for, admission to the Graduate School. They must also meet the prescribed prerequisite course requirements. Students may also have the option of early pre-professional entry into the program through the established guidelines of the Bachelors of University Studies (BUS) program. The BUS is an inter-disciplinary degree designed for students whose career and educational goals are not met by traditional degrees offered at Idaho State University.

During the first three years, the student develops a course of study that will meet the student's interests, university degree requirements and Occupational Therapy Program prerequisites admission requirements. The student can apply to the BUS program during his/her junior year. With successful completion of the first professional year in the OT program, the student will receive a Bachelor of University Studies and will continue directly into the MOT program over the next two years. The combination of the BUS degree with the MOT degree program creates a seamless entry into the occupational therapy profession, ensuring that all prerequisites in social, physical and biological sciences are completed in a timely manner. For further information on the BUS and Occupational Therapy program, contact the Department of Physical and Occupational Therapy at (208) 282-4095.

1. Applicants must complete a bachelor's degree from a college or university accredited in the U.S. or its equivalent from a school in another country. This degree may be in progress during the application process but must be completed prior to beginning OT courses in the Fall semester.
2. All applicants applying to the OT Program must also apply for admission to ISU through the Graduate School. General admission's requirements are explained in the Admissions section of the Graduate Catalog. Note: Some of the requirements for admission into the OT Program are higher than the general requirements for admission to Graduate School.
3. Applicants must have a minimum of an earned grade point average (GPA) of at least 3.0 over all upper division course work to apply to the OT Program. A minimum of 25 upper division credits must be completed, or in progress, by January of the year of admission for applications to be considered.
4. Applicants must take the Graduate Record Examination (GRE) or Miller Analogies Test (MAT).
   a. GRE must meet the following requirements to be competitive: A total combined score of at least 950 in the verbal and quantitative portions. Verbal must be at least 400. Minimum of 4.5 on the analytical portion.
   b. MAT must meet the following requirements to be competitive: A total score of 390.
   c. Applicants whose first language is not English need to meet the following TOEFL requirements for Classified admission:
      i. Internet-based test (iBT): a total score of 80 with a score of at least 20 on each Section (graduate assistants who teach courses must score 23 or above on the Speaking Section) on the iBT; or
      ii. Paper-based test: a total score of 550 with a score of at least 55 on Section 1 (Listening Comprehension) on the computer test; or
      iii. Computer-based test: a total score of 213 with a score of at least 21 on Section 1 (Listening Comprehension) on the computer test; or
   d. Applicants with scores lower than the requirements will not be considered.
   e. The scores of the GRE/MAT/TOEFL must be received by the Graduate School by the application deadline (December 15) for an application to be considered. The Idaho State University code for these three tests is: 4355.
5. Applicants must complete specific prerequisites courses with a GPA of 3.0 in each of the specified categories. Prerequisite course work in anatomy and physiology must be completed within the last five (5) years. Prerequisite course work that is ten (10) years or older may not be acceptable for admission unless approved by the Department Admissions Committee prior to application. An applicant with more than four (4) prerequisite courses in progress or planned for the spring/summer semesters may not be considered for admission. Please contact the Department of Physical and Occupational Therapy for specific information on the prerequisite course work.
6. Applicants must demonstrate knowledge and exposure to the occupational therapy profession. All of the required experience must be completed prior to admission to the Idaho State University OT Program. All of the experience must be completed under the direct supervision of a practicing occupational therapist and must have occurred within the last FIVE years. A total of 40 hours of experience is required and must be completed in a minimum of two different occupational therapy practices.
7. Each applicant must submit three letters of reference with the application. One of the letters must be from the Occupational Therapist who directly supervised the volunteer or aide experience(s). Please contact the Idaho State University OT Program for additional information.
8. Applicants meeting all of the above requirements will be given preference for admission into the program, and have been more successful in gaining entry. The admissions committee reviews all applicants on a competitive case-by-case basis during any admissions cycle.

### Program Accreditation

The Idaho State University Master of Occupational Therapy Program received accreditation from the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) in December 2000. ACOTE can be contacted at:

4720 Montgomery Lane
P.O. Box 31220
Bethesda, MD 20824-1220
(301) 652-AOTA
Graduates of the program will be eligible to sit for the national certification examination for the occupational therapist administered by the National Board for Certification in Occupational Therapy (NBCOT).

After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). In addition, most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. In addition, the OT program requires that all occupational therapy students complete Level II Fieldwork within 12 months following the completion of academic component of the program.

General Requirements

The curriculum is 33 months in duration and includes 4 clinical affiliations. There are 6 semesters and 2 full-time summer sessions encompassing a total of at least 90 credits. Please contact the Department of Physical and Occupational Therapy for additional information regarding clinical affiliations.

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Total Hours: 90

Graduation Requirements

Students receiving the Master of Occupational Therapy (MOT) degree must satisfactorily complete all courses in the curriculum with a minimum of 3.0 GPA, prepare and present academic study papers on a regular basis, prepare and present a professional project or case study, successfully complete all Fieldwork I and II clinical affiliations, and satisfactorily pass both oral and written comprehensive examinations.

Once the student has completed the degree requirements, he/she is eligible to sit for the NBCOT Certification Examination. Students are required to complete Level II Fieldwork within 12 months of completing the academic component of the program. Students convicted of a felony may not be able to sit for the NBCOT certification examination or attain state licensure.

NOTE: Admitted students should be aware that some required external clinical rotation sites will require criminal background and drug checks. In addition, students who have a record of criminal activity may have difficulty procuring a license to practice in some states after completing the program.

Courses

**PTOT 5501 Clinical Kinesiology and Biomechanics: 4 semester hours.**

Analysis of normal and pathological human movement in joints, posture, gait, and the vertebral column. Application of movements to therapeutic interventions is emphasized. PREREQ: BIOL 5574

**PTOT 5502 Clinical Neuroscience: 5 semester hours.**

Study of structure and function of the human nervous system at the cellular and systemic levels. Specific application to clinical management of neurological problems and pathology. PREREQ: BIOL 5574 and BIOL 5586

**PTOT 5512 Professional Communication: 2 semester hours.**

Introduction to standard forms of professional communication in physical and occupational therapy and among other health care professions. Medical record-keeping and interdisciplinary communication are emphasized.

**PTOT 5513 Occupational Therapy Profession: 3 semester hours.**

Historical overview of occupational therapy in health care, education and psychosocial settings. Occupational therapy process, rural human service delivery system, professionalism, ethics, and legal issues will be examined.

**PTOT 5514 Research Methodology: 4 semester hours.**

Application of principles of research design in the biological, psychological and social sciences. Clinical and laboratory research in occupational and physical therapy are emphasized. Preparation for professional project. PREREQ: PTOT 5513, PTOT 5522, PTOT 6613

**PTOT 5515 Service Delivery of Occupational Therapy: 3 semester hours.**

Application of theoretical concepts of management to the delivery of occupational therapy services. Development, implementation and outcome evaluation of community-based service delivery systems will be emphasized. PREREQ: PTOT 5522 and PTOT 5532

**PTOT 5518 Practicum: 1-3 semester hour.**

Clinical experience in the on-campus clinic or in the community under the direction and supervision of faculty. Current issues in management and administration of practice within interdisciplinary teams are discussed. Graded S/U. PREREQ: PTOT 5532

**PTOT 5519 Practicum: 1-3 semester hour.**

Advanced experience in the on-campus clinic or community practice under the direction and supervision of faculty. Current issues in management and administration of clinical practice within interdisciplinary teams are discussed. Graded S/U. PREREQ: PTOT 5533

**PTOT 5521 Self-Exploration in Occupation: 3 semester hours.**

Focus on self-exploration in occupation and purposeful activity. Self-evaluation in occupational performance areas, components, and context. The student will complete a self-development plan in occupation

**PTOT 5522 Occupational Performance: 3 semester hours.**

Person/occupation/environment interactions are examined from the perspective of multiple theories and models that analyze typical occupations and address performance dysfunctions. COREQ: PTOT 5542. PREREQ: PTOT 5513 and PTOT 5521

**PTOT 5523 Therapeutic Use of Self in Occupation: 2 semester hours.**

Survey of historical and philosophical perspective of the therapeutic relationship and its development and implementation with individuals and groups with psychosocial dysfunction. PREREQ: PTOT 5521
**PTOT 5524 Physical Function in Occupation Performance:** 4 semester hours.
The study of theory and application of occupational performance addressing function. Overview of evaluation and treatment of physical and psychosocial function in rehabilitation and orthopedic management. COREQ: PTOT 5544. PREREQ: PTOT 5501 and PTOT 5502

**PTOT 5525 Psychosocial Function in Occupation:** 4 semester hours.
Theory, evaluation and intervention techniques in occupational therapy across the lifespan for persons with psychosocial dysfunction in different treatment settings. COREQ: PTOT 5545. PREREQ: PTOT 5522

**PTOT 5526 Neurological Function in Occupation:** 5 semester hours.
Occupational therapy management of clients with neurological trauma, degenerative disorders, central and peripheral neural and neuromuscular dysfunction. Overview of rehabilitation approach to evaluation and treatment. COREQ: PTOT 5546. PREREQ: PTOT 5502 and PTOT 5524

**PTOT 5527 Occupation and Environmental Management:** 3 semester hours.
The study and application of occupational therapy in managing environmental factors that restore function and decrease disability. COREQ: PTOT 5547. PREREQ: PTOT 5522 and PTOT 5526

**PTOT 5528 Occupation with Children and Adolescents:** 4 semester hours.
Study of occupational therapy evaluations and interventions for children and adolescents who have disabling conditions that cause occupational performance problems. COREQ: PTOT 5548. PREREQ: PTOT 5526

**PTOT 5531 Clinical Affiliation I-Fieldwork I:** 1 semester hour.
Fieldwork opportunities to observe occupational performance of persons served by local institutional or community-based health, educational, and human service organizations. Graded S/U. PREREQ: PTOT 5522 and PTOT 5542

**PTOT 5532 Clinical Affiliation II-Fieldwork I:** 1 semester hour.
Fieldwork experiences focusing on evaluation of occupational performance dysfunction and interventions with persons served by local institutional or community-based health, educational, and human service organizations. Graded S/U. PREREQ: PTOT 5531

**PTOT 5533 Clinical Affiliation III-Fieldwork II:** 7 semester hours.
An in-depth clinical fieldwork with clients having physical, psychosocial, neurological, and/or multisystem impairments/disabilities in a facility-based setting such as a hospital or rehabilitation center. Graded S/U. PREREQ: PTOT 5532

**PTOT 5534 Clinical Affiliation IV-Fieldwork II:** 7 semester hours.
An in-depth clinical fieldwork with clients having physical, psychosocial, neurological, educational or health impairments/disabilities in community-based settings. Graded S/U. PREREQ: PTOT 5533

**PTOT 5542 Occupational Performance Laboratory:** 1 semester hour.
Introduction to and practice using occupational focused evaluation tools and methodologies used in analyzing, evaluating, and categorizing occupational performance. COREQ: PTOT 5522

**PTOT 5544 Physical Function in Occupation Laboratory:** 1 semester hour.
Laboratory exercise designed to apply evaluation and treatment techniques used in physical and psychosocial occupational performance approach. COREQ: PTOT 5524

**PTOT 5545 Psychosocial Function in Occupation Laboratory:** 1 semester hour.
Laboratory exercise designed to apply evaluation and treatment techniques in the management of psychosocial dysfunction to optimal function. The laboratory develops preclinical competency in psychosocial function across the lifespan. COREQ: PTOT 5525

**PTOT 5546 Neurological Function in Occupation Laboratory:** 1 semester hour.
Designed to apply evaluation and treatment techniques to promote adaptation and optimal function. The laboratory serves to develop preclinical competency in the management of neurological disorders. COREQ: PTOT 5526

**PTOT 5547 Occupation and Environmental Management Laboratory:** 1 semester hour.
Application of environmental modifications and adaptations within work, self care and recreational environments. Development, implementation and evaluation of environmental modifications to improve occupational performance. COREQ: PTOT 5527

**PTOT 5548 Occupation with Children and Adolescents Laboratory:** 1 semester hour.
Laboratory exercise designed to apply evaluation and treatment techniques for children and adolescents specific to occupational performance dysfunction, adaptation and optimal function. COREQ: PTOT 5528

**PTOT 5599 Experimental Course:** 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**PTOT 6606 Clinical Therapeutic Exercise:** 3 semester hours.
Theoretical and evidence-based application of exercise for various pathological conditions. Aerobic conditioning, muscular strengthening, flexibility, balance, coordination, power and agility are discussed, demonstrated and evaluated. Specific exercise prescription, modes of exercise, and application for desired outcomes are emphasized. PREREQ: BIOL 5574 and BIOL 5586

**PTOT 6608 Applied Pharmacology for Physical and Occupational Therapists:** 3 semester hours.
Study of the major drug groups, therapeutic implications and side effects. Musculoskeletal, cardiovascular, connective tissue and nervous system disorders are emphasized. PREREQ: BIOL 5574, BIOL 5586, and PTOT 5502

**PTOT 6613 Physical Therapy Profession:** 2 semester hours.
Survey of current status of the physical therapy profession in health care systems. Professionalism, ethics, legal issues, validation of practice, future projections and historical perspective

**PTOT 6616 Professional Project:** 1-2 semester hour.
Individual in-depth study of treatment, administrative or education problem in physical or occupational therapy. Preparation and public presentation of a publishable is required. May be repeated for up to 6 credits. Graded S/U. PREREQ: PTOT 5514

**PTOT 6617 Research Practicum:** 1-2 semester hour.
Faculty supervised clinical, basic or applied research project which may include review of literature preparation, proposal development, data collection, and manuscript preparation. May be repeated up to 4 credits. Graded S/U. PREREQ: PTOT 5514

**PTOT 6618 Practicum I:** 1-2 semester hour.
Supervised clinical experience in physical therapy. May be repeated up to 4 credits. Graded S/U. PREREQ: PTOT 6621 and PTOT 6641

**PTOT 6619 Practicum II:** 1-2 semester hour.
Supervised clinical experience in physical therapy. May be repeated for up to 4 credits. Graded S/U. PREREQ: PTOT 6618

**PTOT 6620 Clinical Procedures:** 2 semester hours.
Study and practice of theory and application of basic techniques of patient evaluation, handling, and treatment in physical therapy. COREQ: PTOT 5501 or PTOT 6640
PTOT 6621 Manual Evaluation and Treatment: 2 semester hours.
Study and practice of theory and application of basic manual techniques of patient evaluation, handling and treatment in physical therapy. COREQ: PTOT 6641. PREREQ: PTOT 6620

PTOT 6622 Musculo-Skeletal System Management I: 4 semester hours.
Physical therapy evaluation, treatment, and management of patients with muscle, skeletal, and connective tissue problems. Overview of orthopedic pathology. COREQ: PTOT 6642. PREREQ: BIOL 5574, BIOL 5586, PTOT 6601 and PTOT 6621

PTOT 6623 Physical Agents: 3 semester hours.
Study and practice of theory and application of the therapeutic uses of physical agents and electromagnetic energy in physical therapy. COREQ: PTOT 6643. PREREQ: PTOT 6620 and PTOT 6640

PTOT 6624 Cardiac and Pulmonary Systems Management: 5 semester hours.
Physical therapy management of persons with dysfunction of the cardiac and/or pulmonary systems and related pathologies. Management by other health professional team members. PREREQ: BIOL 5586

PTOT 6626 Neurological Systems Management: 5 semester hours.
Physical therapy management of patients with central and peripheral neural and neuromuscular dysfunction. Survey of management by other health professionals. COREQ: PTOT 6646. PREREQ: PTOT 5502

PTOT 6631 Clinical Affiliation I: 3 semester hours.
Application of physical therapy manual evaluation and treatment skills in acute and rehabilitation settings. Graded S/U. PREREQ: BIOL 5574, BIOL 5586, and PTOT 6621

PTOT 6632 Clinical Affiliation II: 3 semester hours.
Clinical management practicum related to orthopedics, sports medicine, and/or cardiopulmonary problems. Graded S/U. PREREQ: PTOT 6622, PTOT 6623, PTOT 6624 and PTOT 6631

PTOT 6640 Clinical Procedures Lab: 1 semester hour.
Laboratory exercises designed to practice and enhance overall skills in the initial evaluation and treatment of patients. COREQ: PTOT 6620

PTOT 6641 Manual Evaluation and Treatment Lab: 1 semester hour.
Laboratory exercises designed to introduce basic theoretic and applied concepts and skills of patient handling, evaluation and modalities. COREQ: PTOT 6621

PTOT 6642 Musculo-Skeletal System Management Lab: 1 semester hour.
Designed to develop preclinical competency in the evaluation, treatment, and management of disorders of the musculoskeletal system. Emphasis on the trunk and lower extremities. COREQ: PTOT 6622

PTOT 6643 Physical Agents Lab: 1 semester hour.
Designed to develop clinical competency in the use of physical agents in the treatment of patients with specific pathologies. COREQ: PTOT 6623. PREREQ: PTOT 6620 and PTOT 6640

PTOT 6646 Neurological Systems Management Lab: 1 semester hour.
Designed to develop preclinical competency in the evaluation, treatment, and management of the patient with neurological disorders including stroke, spinal cord injury, degenerative disease. COREQ: PTOT 6626

PTOT 6648 Graduate Special Topics: 1-3 semester hour.
Individual or group critical analysis and study of a specific area of physical therapy patient management, administration, or research. May be repeated. PREREQ: 2nd year students and/or permission of instructor

PTOT 6681 Theories and Resources to Guide Clinical Decision Making in Physical Therapy: 3 semester hours.
Study and application of applying evidence in physical therapy practice. The Guide to PT Practice, Physical Therapy differential diagnosis, and legal and ethical considerations will be addressed

PTOT 6682 Promoting Behavioral Change in Physical Therapist Practice: 2 semester hours.
Study of the theories of learning, compliance, and behavior modification as related to the application of prevention and wellness in physical therapy practice. PREREQ: PTOT 6681

PTOT 6693 Contemporary Musculo-Skeletal System Management for Physical Therapists: 2 semester hours.
Applying evidence and elements of accepted practice to PT management of patients across the lifespan with musculoskeletal diagnoses. PREREQ: PTOT 6682

PTOT 6694 Contemporary Cardiopulmonary System Management for Physical Therapists: 2 semester hours.
Applying evidence and elements of accepted practice to PT management of patients across the lifespan with cardiac and/or pulmonary diagnoses. PREREQ: PTOT 6693

PTOT 6695 Contemporary Neurological System Management for Physical Therapists: 2 semester hours.
Applying evidence and elements of accepted practice to PT management of patients across the lifespan with neurological diagnoses. PREREQ: PTOT 6694

PTOT 6696 Patient Case Seminar: 2 semester hours.
Selection and development of a patient case with which the student has worked to demonstrate application of evidence and the Guide to Physical Therapist Practice to Physical Therapy practice. Graded S/U. PREREQ: PTOT 6695

PTOT 6699 Experimental Case: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

PTOT 7701 Contemporary Multiple System Management for Physical Therapists: 2 semester hours.
Applying evidence and accepted clinical practice to PT management of patients across the lifespan with diagnoses affecting multiple systems. PREREQ: PTOT 6696

PTOT 7705 Clinical Case Management: 3 semester hours.
Advisor guided development and completion of a patient case study demonstrating the application of evidence for PT examination, diagnoses, medical management, treatment and discharge. Oral presentation required. Graded S/U. PREREQ: PTOT 7701

PTOT 7715 Physical Therapy Resource Management: 3 semester hours.
Application of business and health care administration principles to the practice of physical therapy resource management strategies with an emphasis on community service delivery. PREREQ: PTOT 6612, PTOT 6613, PTOT 6621 and PTOT 6632

PTOT 7725 Multi-Systems Management: 4 semester hours.
Physical therapy management of persons with problems affecting multiple systems; burns, wounds, amputations, neoplasms, metabolic disorders. PREREQ: PTOT 6621, PTOT 6622, PTOT 6623 and PTOT 6624

PTOT 7727 Geriatric Management: 1 semester hour.
Examination, evaluation and treatment of the elderly population with emphasis on the management of normal and pathological conditions. COREQ: PTOT 7728. PREREQ: PTOT 6626 and PTOT 6646

PTOT 7728 Lifespan Development: 4 semester hours.
Normal and abnormal development of neuromuscular, musculoskeletal, cardiopulmonary systems cognitive/perceptual and psychosocial behavior associated with life through adolescence. Evaluation, program planning and treatment strategies are introduced. COREQ: PTOT 7727. PREREQ: BIOL 5574 and BIOL 5586
PTOT 7733 Clinical Affiliation III: 5 semester hours.
Clinical management practicum related to patients with orthopedic, neurological, and multisystem problems. Graded S/U. PREREQ: PTOT 6626, PTOT 6632 and PTOT 6646

PTOT 7734 Clinical Affiliation IV: 5 semester hours.
Clinical management practicum related to patients with orthopedic, neurological, cardiopulmonary, pediatric, and multisystem problems. Graded S/U. PREREQ: PTOT 7733

PTOT 7735 Clinical Externship: 5 semester hours.
Clinical management experiences related to patient care, administration, or research in a variety of practice environments. Graded S/U. PREREQ: PTOT 7734
Science and Engineering

Richard R. Brey, Ph.D., CHP, Interim Dean and Professor

David Rodgers, Ph.D., Associate Dean and Professor

Biological Sciences

Chair and Professor: Austin

Professors: Anderson, Bowyer, Delehanty, Finney, Keeley, Magnuson, Meldrum, C. Peterson, Rodnick, Rose, Scalarone, Sheridan, R. Smith, Thomas, Winston

Associate Professors: Baxter, Bearden, Evilia, Groome, Hill, Lohse, Loxterman, Pfau, Williams

Assistant Professors: Aho, Pilarski, Reinhardt, Weber, Yang

Lecturers: Abbruzzese, Black, Frank, Rhett, Shurley

Degree Programs

Degree programs offered by the Department of Biological Sciences include:

- Doctor of Philosophy (Ph.D.) in Biology
- Doctor of Philosophy (Ph.D.) in Microbiology
- Doctor of Arts (D.A.) in Biology
- Master of Science (M.S.) in Biology
- Master of Science (M.S.) in Microbiology
- Bachelor of Science/Master of Science

Doctor of Philosophy (Ph.D.) in Biology

The Doctor of Philosophy is a research degree granted for proven ability, independent investigation, and scholarly contribution in a specialized field.

It is not granted solely on the completion of a certain number of credits, and there is no set credit requirement for this degree. The dissertation research must involve original and creative work. Credits for the dissertation and the research on which it is based should comprise a substantial portion of the program.

Admission Requirements

For applicants who hold a M.S. degree, entrance into the Ph.D. program requires a minimum GPA of 3.0 for courses taken in the previous degree program, and scores in the 35th percentile or higher on the verbal and quantitative sections of the GRE.

For applicants who hold only a Bachelor’s degree in biological sciences or a closely related discipline, entrance into the Ph.D. program requires a GPA of 3.0 or higher for all undergraduate work and scores in the 50th percentile or higher on the verbal and quantitative sections of the GRE.

Students for whom English is a second language who do not meet the minimum verbal GRE score must meet the Graduate School minimal TOEFL score. Other exceptions to the verbal and quantitative GRE requirements will be granted only in exceptional circumstances.

All applicants must also submit scores for the GRE subject area test in Biology or in Biochemistry/Cell/Molecular Biology.

The application must be approved by a majority vote of the Graduate Programs Committee prior to formal acceptance by the Department. No student in the Department’s Master’s program will be permitted to advance to the Ph.D. program without approval of the Graduate Programs Committee. Application for advancement must include:

1. a letter from the student that provides a rationale for the status change and
2. a letter of support from the major professor.

Progressing Through the Ph.D. Program (10 Easy Steps)

1. Initial Evaluation

The purpose of this evaluation is to provide incoming students with guidance regarding coursework and other studies that will help them to be successful in their degree programs. The evaluation should take place by the end of the second full month in residence (October, for students entering in the fall). The Evaluation Committee should consist of the major advisor and two other faculty members, at least one of whom is also a regular (i.e., tenure track or research) faculty member in the Department of Biological Sciences. Members of the Evaluation Committee should be chosen by the advisor and student, and may become part of the student’s Advisory Committee.

The result of the Initial Evaluation should be the creation of an Initial Program of Study.

2. Initial Program of Study

Based on the results of the GRE Subject test, the student’s transcripts, and the student’s research interests, the Evaluation Committee should help the student draft an Initial Program of Study that lists coursework the student will take to meet the program requirements and support the student’s research. The Initial Program of Study should indicate how the student will meet the requirement for exposure to three Core Areas (Cellular and Molecular Biology, Organismal Biology, and Ecology & Evolution). A copy of the Initial Program of Study should be given to the Chair of the Graduate Programs Committee and then filed in the student’s permanent file.

3. Core Areas

Students in the Ph.D. program are required to have some exposure to each of the following core areas:

- Cellular and Molecular Biology which can include cellular structure and function, genetics, and molecular biology
- Organismal Biology - which can include any of the ‘-ologies’, organismal structure, function, development, growth, and diversity
- Ecology and Evolution - which can include population biology, conservation biology, evolutionary ecology, community ecology, population ecology, and behavior.

Exposure to these areas can include undergraduate coursework, graduate coursework, or directed readings. The taxonomic focus of coursework may reflect the student’s research focus. For example, a microbiologist could satisfy the first core area with coursework in microbial genetics, the second core area with coursework in microbiology, and the third core area with coursework in microbial evolution, whereas a mammalian physiologist could satisfy the first
core area with coursework in population genetics, the second core area with coursework in comparative anatomy, and the third core area with coursework in vertebrate paleontology.

4. Advisory Committee

Ph.D. students should establish an advisory committee no later than the end of their second semester in residence. The Advisory Committee will consist of the major professor, at least three other members of the graduate faculty, and a Graduate Faculty Representative (GFR). The GFR is officially appointed by the Dean of the Graduate School, however, recommendations made by the Department are typically honored by the Graduate Dean. Because the primary role for GFR is to serve as a representative of the Graduate Faculty, the GFR does not have to be identified during the first year of the student’s program. The Advisory Committee may include individuals from other departments or persons from outside the University who hold affiliate rank in the Department, but the majority of any committee must consist of regular departmental faculty.

Within the broad guidelines outlined in this document and the General Graduate Program Requirements, it is the responsibility of the Advisory Committee to monitor and direct the student’s progress and:

- a. Identify how the student will satisfy the requirement to have some background in each of the three core areas;
- b. Review the student’s research proposal, conduct an oral examination following a public presentation of the research proposal, and determine if the student has passed that examination;
- c. Review and sign the student’s Program of Study, ensuring that it meets the Graduate School requirements (i.e., total number of credits, number of 600-level credits, number of credits if a minor is part of the student’s program);
- d. Conduct a comprehensive examination after the student has completed the majority of the coursework on the Program of Study; and
- e. Review the dissertation and conduct a rigorous examination of the candidate’s research before approving and signing the dissertation.

5. Research Proposal

All Ph.D. students are required to develop a research proposal that details how they will develop the research that will form the basis of their dissertation. The proposal should follow the guidelines for an NSF dissertation improvement grant or proposal to a comparable national funding source. The proposal will include:

- a. A survey of the literature to develop a rationale for the research;
- b. A statement of the problem(s) or hypothesis(es) to be addressed;
- c. Detailed descriptions of methods including the experimental design and planned statistical analyses,
- d. Preliminary data (optional, but strongly encouraged),
- e. A time line,
- f. A bibliography, and
- g. A budget.

The student must present the proposal to the department during a one-hour seminar to be scheduled no later than the end of the third semester of residency. The proposal must be provided to all members of the Advisory Committee at least seven days before the seminar. After the seminar, the student will meet with the Advisory Committee for an oral defense of the proposal. The committee may ask to re-examine the student upon revision of the proposal if significant shortcomings are identified. If the committee decides that the student is not able to demonstrate sufficient mastery of the research area, the committee may recommend that the student not complete the Ph.D. program, but consider alternative possibilities, such as switching to the M.S. program. Following approval of the proposal by the Advisory Committee, the proposal should be submitted to an appropriate agency for funding. Once the student has successfully defended the research proposal, the student is advanced to candidacy.

6. Revised Program of Study

Following the successful proposal defense, the student should submit to the Assistant Chair for Graduate Programs a Program of Study that has been approved and signed by the Advisory Committee. This form should indicate how the student will satisfy all of the degree coursework requirements. Subsequent substitutions for any courses on this Program of Study must be approved by the student’s Advisory Committee.

7. Minor

There is no requirement for Ph.D. candidates to have a minor, however a candidate may identify a minor that develops expertise in an area outside the major research focus. Courses to be applied to a minor must appear on the Final Program of Study for the minor to be noted on the transcript. The minor should consist of 9 or more credit hours that address a common theme. That theme may be in a subject area outside of Biology (e.g., Geosciences), or it may be an area within the Biological Sciences that is distinct from the candidate’s primary research topic. For example, a microbiologist might develop a minor in ecology, a physiologist might develop a minor in environmental science, an ecologist might develop a minor in microbiology. In addition, any candidate may develop a minor in Biology Education by taking advantage of the existing Doctor of Arts in Biology curriculum. The minor in biology education will normally consist of 4 credits of seminars: (BIOL 6693 Seminar in College Teaching and/or BIOL 6694 Advanced Study in College Teaching and 5 credits of BIOL 7700 Supervised Teaching Internship). Students who pursue the minor in Biology Education are eligible for one year of D.A. Fellowship support.

8. Comprehensive Examination

The student must pass a Comprehensive Examination intended to test his/her preparation for completing the Ph.D. degree program. The Comprehensive Examination should address at least two of the three core areas (see above). The extent to which these areas are addressed in the Comprehensive Examination will be determined by the Advisory Committee, and should reflect the student’s area of research specialization. In addition to the core areas, the Comprehensive Examination should address the specific knowledge the Advisory Committee feels the student will need to successfully address the research that is the focus of the dissertation.

The Comprehensive Examination should be scheduled after the student has completed the majority (i.e., all but one or two classes) of the coursework for the degree program. At least three months prior to the examination, the student should meet with the Advisory Committee to identify the specific areas that will be covered and the committee member who will be responsible for writing questions for each area. If the student has a minor, then a portion of the comprehensive examination should focus on that minor. Students should meet individually with committee members to determine how best to prepare for the specific topics that will be covered by the examination. The examination must be partly written and partly oral. Both portions must be passed satisfactorily in order to complete the Comprehensive Examination requirements.

The written portion of the Comprehensive Examination generally will consist of eight sections (each meant to be completed in 3–4 hours). The form of the written portion is flexible. If it is of a “closed book” type, it should not be less than the equivalent of three (8 hour-long) days nor more than five (8 hour-long) days of actual writing time. Normally the written exams will be completed within the span of one week. Evaluation of each section of the written examination is on a pass/fail basis. The student must earn a passing
evaluation on at least 75% of the sections to pass the written portion of the comprehensive examination. Failed sections may be repeated once, at a time designated by the student’s Advisory Committee, but within a year of the original examination. The completed and graded written portion of the Comprehensive Examination is to be placed in the student’s departmental file.

The purpose of the oral portion of the examination is to provide an opportunity to clarify and explore further implications of the written examination as well as to present the student with new questions in the same general subject areas as those covered by the written exams. The oral portion should not be given until after the written examination has been evaluated by all of the committee members, but no later than two weeks after completion of the written portion. The orals must be passed by simple majority vote of the advisory committee. In case of failure, the student may be allowed to retake all or part of the oral examination at the discretion of his/her advisory committee.

If the Graduate Faculty Representative (GFR) was chosen to provide specific expertise to support the student’s graduate program, the GFR should participate in both the written and oral portions of the Comprehensive Examination.

9. Dissertation

Every student working toward the Ph.D. degree must submit a dissertation embodying the results of original and creative research. The dissertation must demonstrate the student’s ability in independent investigation and must be an original contribution to scientific knowledge. It must display mastery of the literature of the subject field and must demonstrate an organized, coherent development of ideas, with a clear exposition of results and creative discussion of the conclusions.

The form and style of the dissertation should comply with the format prescribed by the national- or international-level journal(s) in which the student intends to publish the material and must meet the requirements of “Instructions for Preparing Theses, Dissertations, D.A. Papers, and Professional Projects,” which is available from the Graduate School. Within the framework of these constraints, however, the format of the dissertation can vary, ranging from a series of stand-alone chapters to a single, comprehensive unit. In the former case, a preface that explains the overall layout should be included. After the dissertation has been approved for format and content by the major professor, and at least two weeks before the date of the final examination, the student must deliver a copy of the dissertation to each member of the Advisory Committee.

10. Dissertation Defense

The student’s Advisory Committee, including the GFR, will conduct the final examination of the dissertation. The final defense must be completed at least two weeks before the date set for the commencement exercises at which the student expects to obtain a degree. Students are required to give a departmental seminar on the dissertation immediately preceding the final defense, and the student is required to publicize the seminar at least one week in advance (i.e., notice in the Departmental Newsletter and notices posted in the Life Sciences Building).

The examination is concerned primarily with the student’s research as embodied in the dissertation, but it may be broader and extend over fields of study related to the dissertation. The final examination is entirely oral and is open to faculty invited by the advisor, Department Chair, or Dean of the Graduate School. Committee members may ask questions, and those visitors specifically invited to do so by mutual agreement of the student’s Advisory Committee and the Dean of the Graduate School may also ask questions. A majority of the examining committee must approve the dissertation and the final defense.

**Doctor of Philosophy (Ph.D.) in Microbiology**

The degree of Doctor of Philosophy is granted for proven ability, independent investigation, and scholarly attainment in a special field. Although it is primarily a research degree and is not granted solely on the completion of a certain number of credits, there are specific course requirements that must be met. The training of a Ph.D.-level Microbiologist is based on a strong foundation in Mathematics, Chemistry, Genetics, Molecular Biology, and Biochemistry in addition to extensive coursework in the various disciplines within the field of Microbiology. This base is built upon advanced course work in the major sub-disciplines of Microbiology (Molecular Biology, Biochemistry and Physiology, Genetics, Biotechnology, Virology, Industrial and Environmental Microbiology, and Medical Microbiology) as the student focuses his/her area of interest.

**Admission Requirements**

Application to the Ph.D. program in Microbiology requires:

1. At least a 3.0 grade point average (GPA) for all upper division credits taken in the previous degree program.
2. Scores in the 35th percentile or higher on the verbal and quantitative sections of the Graduate Record Exam (GRE),
3. Submission of scores for the GRE Biology or Biochemistry subject area exam, and
4. Completed application forms for the Graduate School and Department of Biological Sciences, including three letters of recommendation.

Scores in the verbal, quantitative, and analytical sections of the GRE must be submitted before entrance can be considered. International students may be accepted without GRE scores, with the requirement that they take the GRE during their first semester in residence. Individuals for whom English is a second language must meet the Graduate School minimal TOEFL score.

Applicants who do not meet the minimum GPA and/or GRE requirements may be admitted under “Classified (w/PR)” status. The conditions of acceptance will be specified on the applicant’s Approval for Admission to Graduate School form. In some cases, students may be required to retake the GRE during their first semester in residence. Students admitted under “Classified (w/PR)” status because of low/missing GRE scores will be transferred to “Classified” status if new GRE scores that meet the minimal requirement are submitted. Failure to meet the minimum GRE standards during the first year of residence may result in expulsion from the program. Students under “Classified (w/PR)” status must petition the Graduate Programs Committee for transfer to “Classified” status after a year of graduate work and successful remediation of any deficiencies in coursework or GRE scores. This petition will include a recommendation from the student’s Advisory Committee signed by the research advisor. Continuation in the Microbiology Ph.D. program is contingent upon approval of transfer to “Classified” status. In rare cases, the Graduate Programs Committee may grant approval for a student to remain on “Classified (w/PR)” status for a second year. Any student with “Classified (w/PR)” status who has not been approved for transfer to “Classified” status by the end of his/her second year will be dismissed from the program. Acceptance into the Microbiology Ph.D. program must be approved by the Microbiology Graduate Program committee.

For applicants who hold only a Bachelor’s degree, acceptance into the Microbiology Ph.D. program requires a minimum of a 3.0 GPA for all undergraduate work, scores in the 50th percentile or higher on the verbal and quantitative sections of the GRE, and submission of scores for the GRE Biology or Biochemistry subject area exam. No waiver of GRE scores is allowed except in the case of students for whom English is a second language who...
receive a lower verbal GRE score; these individuals must meet the Graduate School minimal TOEFL score. The application must include three letters of recommendation. The application must be approved by the Departmental Microbiology Program Committee.

Students in the Microbiology or Biology M.S. program may be permitted to change to the Microbiology Ph.D. program with approval of the Microbiology Graduate Program Committee. Application for change must include:

1. A letter from the student that provides a rationale for the status change and
2. A letter of support from the research advisor.

**Prerequisites**

The following courses are recommended for the Microbiology Ph.D. program. It is expected that applicants to the program will have a broad background in Biology, and will have completed coursework at the undergraduate level in the following areas:

- 1 semester of Calculus (Calculus through Multivariable Calculus recommended)
- 1 year of General Chemistry
- 1 year of Organic Chemistry
- 1 year of Physics
- 1 semester of Quantitative Analysis, Analytical Chemistry, or Inorganic Chemistry
- 1 semester of Statistics or equivalent
- Genetics
- General Microbiology

The Microbiology Ph.D. program will be tailored to the requirements of the student’s program of study (as determined by the student’s Advisory Committee), and will include coursework to rectify any deficiencies as determined by the Microbiology Graduate Program Committee. Deficiencies will be made up in the first year of study.

**Graduate Coursework in the Microbiology Ph.D. program**

The intent of the Microbiology Ph.D. program is to produce scientists with a broad background in the major sub-disciplines of Microbiology, while ensuring focused study in their major field of interest. The student’s Graduate Advisory Committee will direct the student to specific course offerings within the Department and University to satisfy coursework guidelines. The three core areas in the Microbiology Ph.D. program are:

- Biochemistry, Genetics, Molecular Biology, and Physiology of Microorganisms
- Immunology, Virology, and Medical Microbiology
- Microbial Ecology and Applied, Industrial, and Environmental Microbiology

Students in the Microbiology Ph.D. program will take at least 30 credits of formal graduate coursework (at least 15 credits will be at the 6600-level). The following courses are not to be considered part of this 30 credits of formal graduate coursework: BIOL 5581 Independent Problems, BIOL 5582 Independent Problems; BIOL 6648 Graduate Problems; BIOL 6650 Thesis; BIOL 8850 Doctors Dissertation. Six credits will consist of BIOL 6695 Seminar in Microbiology. Six credits of courses will be taken in each of the three Microbiology core areas (18 credits total). The remaining 6 credits will be taken in any one of the three core areas or in subject areas recommended by the student’s Advisory Committee. It is expected that students in the Microbiology Ph.D. program will complete the majority of their coursework by the end of their 4th semester (or equivalent) in the program. Students in the Microbiology Ph.D. program may be required to take other courses (as determined by recommendation of the student’s Graduate Advisory Committee). The 6 credits of Graduate Seminar in Microbiology may be taken at any time during the student’s residence in the Microbiology Ph.D. program, but it is recommended that the student start taking Graduate Seminar no later than their 5th semester (or equivalent) in the program. The specific course list for each student will be determined by the student’s Graduate Advisory Committee based on the criteria outlined in this document. Students who have already received an M.S. degree may transfer 9 credits of graduate level work, providing a grade of “B” or higher was earned. Transfer of credits is subject to approval by the Graduate Programs Committee.

**Course Requirements**

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<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>BIOL 6695</td>
<td>Seminar in Microbiology</td>
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<td>Microbiology Core Area Courses (6 credits each area)</td>
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<td>Advisory Committee recommended courses</td>
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<tr>
<td>Total Hours</td>
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**Residency Requirements**

The equivalent of at least four years of full-time study (minimum of 75 graduate credits) is required and the research upon which it is based should compose a substantial portion of the program and involve original work. Part of the work may be completed elsewhere with the approval of a student’s Advisory Committee, but two consecutive regular semesters of full-time study must be taken in residence at this university.

**Advisory Committee**

The student’s Advisory Committee will consist of the graduate research advisor and (at least) three additional members of the graduate faculty who are chosen by the student in consultation with the research advisor. It is the student’s responsibility to contact members of the faculty to ascertain their willingness to serve. The Advisory Committee may include individuals from other departments or persons from outside the University who hold affiliate rank in the Department, with the approval of the Dean of the Graduate School, but the majority of any committee must consist of regular departmental faculty.

The final member of the student’s Advisory Committee is a Graduate Faculty Representative (GFR) from outside the Department who is appointed by the Dean of the Graduate School. The Dean will automatically appoint a GFR to participate in the defense of the dissertation if one has not been appointed before that time. However, it has been traditional for the GFR to be an active member of the Advisory Committee who participated in committee meetings and the Comprehensive Examination. In such cases, the student must submit a request in writing to the Dean of the Graduate School that a particular individual be appointed. The GFR must be a member of the Graduate Faculty of Idaho State University.

**Comprehensive Examination and Research Proposal Seminar**

Before submission of the final program of study, the student must pass a Comprehensive Examination intended to test his/her knowledge of the relevant sub-disciplines within the field of Microbiology that pertain to the dissertation research project(s). The student will be admitted to this examination when the student is considered by his/her Advisory Committee to be adequately prepared. This is to be interpreted as allowing the student to take the Comprehensive Exam, even though some courses remain to be taken for the completion of the student’s program of study.

The Comprehensive Examination should be taken following the 2nd semester (or equivalent) of residence in the Microbiology Ph.D. program, and prior to the end
of the student’s 5th semester (or equivalent) in the program. Several months (3 to 6) prior to the intended date for examination, the student should meet with his/ her Advisory Committee to seek approval to schedule the exam. If approval is given, the student may at that time ascertain from the committee which topical areas will be covered and which committee member will be responsible for each. Students should meet individually with committee members to determine more specifically what materials will be pertinent and how to prepare for the exam. The examination will consist of a written and an oral portion, which will be administered during a closed session following the student’s public Research Proposal Seminar. Both portions must be passed satisfactorily in order to complete the comprehensive requirements.

The written portion of the Comprehensive Exam should not be less than 25 hours nor more than 40 hours of actual writing time. Normally the written exams will be completed within the span of one week. The written portion of the Comprehensive Examination generally will involve the student applying the knowledge gained through graduate coursework and readings suggested by the Advisory Committee. The examination will consist of five sections, each meant to be answered by a five-hour essay. The specific topic areas covered will be determined by the student’s Advisory Committee. Grading on the written portion will be on a Pass/Fail basis with four of the five sections graded satisfactory required for a Pass. If the student fails two or more sections of the written portion of the exam, the student’s Advisory Committee will convene to determine if the student will be allowed to remain in the program. The student’s Advisory Committee may recommend one of three options:

- dismissal from the program;
- transfer from the Microbiology Ph.D. program to the Microbiology M.S. program; or
- re-examination of the failed sections of the written exam.

Failed sections may be repeated once, at a time designated by the student’s Advisory Committee, but within a year of the original examination. If a student has not passed all the written sections after repeating the failed sections once, that student will be dismissed from the program. The completed and graded written portion of the Comprehensive Exam is to be deposited in the student’s department file.

Students pursuing the Microbiology Ph.D. are required to present a Seminar based on their Research Proposal to the Department of Biological Sciences prior to the end of their 5th semester (or equivalent) in the program. The seminar will be given during a scheduled meeting time of the Graduate Seminar in Microbiology (BIOL 6695) and will be considered part of the course requirements for that student. The purposes of Research Proposal Seminar is to assess the student’s potential for graduate study at the doctoral level, to determine areas in which the student shows strength or weakness, and to assess the student’s ability to assimilate, evaluate, and synthesize subject matter. Immediately after the seminar, the student will meet in closed session with his/her Advisory Committee to review and critique the Research Proposal Seminar and the written portion of the Comprehensive Exam. This will qualify as the oral portion of the Comprehensive Exam.

The purpose of the oral portion of the examination following the Research Proposal Seminar is to provide an opportunity to clarify and explore further implications of the written examination as well as to present the student with new questions in the same general subject areas as those covered by the written exams, but it can also cover other areas that are relevant to the student’s graduate program. The oral portions should not be given until after the written examination has been evaluated by all of the committee members, but no later than four weeks after completion of the written portion. The student must pass the written portion of the Comprehensive Exam prior to taking the oral portion of the Comprehensive Exam. The oral exam must be passed by simple majority vote of the Advisory Committee. Once a student has passed both the written and oral portions of the Comprehensive Exam, the student will be admitted to Candidacy in the Microbiology Ph.D. program. When the student has passed both written and oral portions of the Comprehensive Exam, the Advisory Committee should finalize and approve the student’s Final Program of Study. The Advisory Committee may recommend additional coursework to strengthen the student’s background in areas in which the student was considered weak. In case of failure, the student may be allowed to retake all or part of the oral examination at the discretion of his/her Advisory Committee. If a student fails the oral exam a second time, that student will be dismissed from the program.

**Doctoral Dissertation**

Every student working toward the Microbiology Ph.D. degree must submit a dissertation embodying the results of original and creative research.

The dissertation must demonstrate the student’s ability in independent investigation and must be a contribution to scientific knowledge. It must display mastery of the literature of the subject field and must demonstrate an organized, coherent development of ideas, with a clear exposition of results and a creative discussion of the conclusions. Students may register for dissertation credit only after completion of all formal course work. After the dissertation, in substantially final form, has been approved for format and content by the research advisor, and not later than two weeks before the date of the final examination, the student must personally deliver a copy of the dissertation to each member of the Advisory Committee.

**Final Examination**

The final examination of the dissertation will be conducted by the student’s Advisory Committee including the GFR. Students are required to give a departmental seminar on the dissertation immediately preceding the final examination. The examination is concerned primarily with the student’s research as embodied in the dissertation, but it may be broader and extend over fields of study related to the dissertation. Questions may be asked by committee members and those visitors specifically invited to do so by mutual agreement of the student’s Advisory Committee and the Dean of the Graduate School. A majority of the examining committee must approve the dissertation and the final examination.

**Doctor of Arts (D.A.) in Biology**

The Doctor of Arts degree in Biological Sciences is granted for proven ability and scholarly attainment in biological science instruction. The program stresses preparation for undergraduate teaching at colleges and universities and the development of research abilities that complement instruction at the college level. The program is concerned with the development of the candidate as a biologist, a scholar, and a professional educator. The program is designed to provide the student with a broad background in the biological sciences, the ability to conduct and interpret research, and excellent pedagogical skills.

**Goals**

All D.A. students must demonstrate:

1. a broad background in the biological sciences and an understanding of scientific inquiry;
2. the ability to synthesize concepts of biology and to effectively communicate these concepts;
3. the ability to conduct, analyze, and critique research in biological sciences and biological sciences instruction;
4. the ability to integrate current biological and educational research into their teaching;
5. an understanding of the history and philosophy of science and the impact of contemporary science on society;
6. expertise with teaching strategies appropriate for a variety of teaching and learning environments, including undergraduate research;
7. strong content knowledge in three of the departmental core coursework areas and competency in the remaining three core areas;
8. a well-developed philosophy of education.

**Doctor of Arts Fellowships**

Students admitted to the program with Fellowship Support can anticipate three years of support, contingent upon satisfactory performance toward their degree. Typically, provisions will be made for a fourth year of support, but the student and his/her major advisor must submit a letter to the departmental Graduate Programs Committee requesting an extension of support and provide a rationale and timeline toward completion of the degree.

**Master’s Degree Requirement**

All applicants for the program must have completed a Master’s degree prior to entrance into the program. If a student enters the program without having completed a Master’s-level thesis or research paper in biology or a related science, he/she must complete this requirement in addition to the degree requirements or design a dissertation project that incorporates biological research as a major component. This additional requirement may increase the length of time in the program and may limit the flexibility of the degree.

**Diagnostic Examination**

Incoming D.A. students are required to take an oral diagnostic examination. The purpose of the examination is to assess the student’s potential to become an effective instructor by examining the depth of his/her background in biological science and communicative skills. The examination is meant to be primarily diagnostic, and the results are used by the student’s Advisory Committee to help plan the Program of Study. The examination covers six core conceptual areas of biology (Cell Biology, Genetics, Ecology, Evolution, Physiology, Organismal Biology) and knowledge of pedagogy. The purpose of the oral examination is to validate the results of the Biology GRE and the coursework listed on the student’s transcript, and to observe the student’s oral communicative skills.

The oral examination is conducted no later than six weeks after the beginning of the first semester of the student’s program (exception: for students taking the Biology subject GRE in November of their first semester, the oral exam may be delayed until the end of the student’s first semester). The oral examining committee is appointed by the Chair of the Graduate Programs Committee. After completion of the examination, the oral examining committee will submit suggestions to the student and his/her Advisory Committee for planning the Program of Study. Normally, the student, in conjunction with the committee, will select three of the core areas to emphasize, however a student must demonstrate competency in the remaining three areas as well.

Although the diagnostic examination is used primarily for advising purposes, if the student’s performance is generally unsatisfactory, the oral examining committee will select one of the following options:

1. The student may continue in the program but with certain specified additional requirements;
2. The student may take a second oral examination the following semester, or
3. The student will not continue in the program.

If the performance on the second oral examination is unsatisfactory, the student will be dismissed from the program.

**Advisory Committee**

Graduate programs in the Department of Biological Sciences are directed by Advisory Committees selected by the student, in consultation with their advisor. The committee will consist of at least four faculty members, plus a Graduate Faculty Representative (GFR). At least three faculty must be from the Department of Biological Sciences, and at least two committee members should have expertise in the core areas of coursework chosen by the student.

**Coursework Requirements**

The D.A. degree program requires a minimum of 48 semester credits beyond the Master’s degree. A program of coursework is established jointly by the student and his/her committee. The program should reflect previous coursework, previous teaching experiences, results of the diagnostic examination, the interests and professional goals of the student, and the goals of the D.A. in Biological Sciences instruction as previously listed in this document. All D.A. students are required to take Advanced Studies in College Teaching (4 credits) and a minimum of two Seminars in College Teaching (4 credits). D.A. students are encouraged to participate in topical seminars, professional organizations, grant writing, and to submit their work to education and scientific journals.

**Internship Requirements**

Internships are a very important part of the D.A. program. Each internship should be a rigorous, thoroughly planned pedagogical activity that provides an opportunity for development of skills in traditional and innovative teaching methods and for utilizing techniques, etc. developed during the program. Students must follow the Guidelines for the Supervised Teaching Internships. The internship requirement is flexible to accommodate the needs of each student.

Written proposals for each internship must be discussed and approved by the student’s committee before the internship begins. Exact procedures for evaluating the internship will depend on the nature of what is done and where it occurs. However, evaluation is considered to be an integral and important part of the internship, and students must develop an evaluation system in concert with the internship supervisors. It is expected that this evaluation will at least include provisions for substantive feedback from students, the major advisor, committee members, and supervising faculty. Students must complete an internship report within one semester of teaching.

Typically, students will be expected to focus on coursework and their scholarly research during their first two semesters in residence, and not begin internships until after their second or third semester in the program. Internships must be completed prior to the last semester of residency. A minimum of 9 credits of internship are required, but no more than 16 can be counted toward the degree. A comprehensive report of each internship, including evaluation, must be submitted to the student’s committee prior to the final seminar and examination. This comprehensive internship report should be prefaced by a Statement of Teaching Philosophy. A copy of this report will be retained separately in the student’s departmental file unless it is part of the dissertation.

**Dissertation Proposal and Defense**

During the first three semesters in residence, the student will prepare a written dissertation proposal. The dissertation can be designed to include multiple components such as:

- biological research;
- application of biological research to the classroom;
- pedagogical research related to biological sciences instruction at the college level;
- assessment of student learning;
- in-depth analysis and evaluation of internship teaching;
- multi-media or other curricular development, use, and evaluation;
- conducting research and involving undergraduates in such research, and evaluating the efficacy of such involvement.
The written proposal will include:

1. a survey of the literature to develop a rationale for the research,
2. a statement of the problem(s) or hypothesis(es) to be addressed,
3. detailed descriptions of methods including the experimental design and planned statistical analyses,
4. preliminary data (optional, but strongly encouraged),
5. a time line,
6. a bibliography, and
7. a budget (optional).

When the research proposal has been approved by the major professor and the remainder of the Advisory Committee, the student will prepare and present a one-hour seminar on the proposed research to the Department. This presentation will occur no later than the end of the student’s third semester in residence. Immediately after the seminar, the student will be given an oral examination by his/her Advisory Committee. This examination will focus on the proposed research. The student’s Advisory Committee will evaluate the student’s performance and may:

1. admit the student to further work toward the D.A.,
2. recommend that the student revise the proposal and/or improve her/his background before attempting to continue graduate work,
3. recommend limitation of the program to the M.S. degree, or
4. in rare cases, recommend dismissal from the graduate program.

In the event of the first two decisions, the committee will provide the student with specific recommendations or requirements. In the case of the second decision, the committee also will schedule a second evaluation after not less than one semester. Once the student has successfully defended the research proposal, the student is advanced to candidacy.

**Comprehensive Examination**

The comprehensive examination consists of a written and an oral portion. The written examination tests the student’s knowledge of the core areas of biology and the topics covered in the education seminars. Depth and breadth of the examination on these topics should be commensurate with the recommendations from the diagnostic examining committee, and the three selected core areas as represented in the student’s program of study. The oral examination assesses the student’s capability to communicate answers effectively and areas of weakness indicated by the written examination.

Each member of the student’s committee will submit a section of the examination on which the student will be expected to write for 4 to 6 hours. Each committee member will individually determine whether the student passed his/her section of the examination; the student must pass at least 75% of these sections. If the written examination is not passed, the committee may recommend that the student not proceed further in the program, or that the student re-take those portions of the written examination that were not passed.

The oral examination should be scheduled within two weeks of satisfactory completion of the written examination. Failure to pass the oral examination can result in the recommendation that the student not proceed further in the program, or that the oral examination should be re-taken at a later date. Failure to pass the comprehensive examination twice results in automatic termination from the program.

**Doctoral Dissertation**

Every student working toward the D.A. degree must submit a dissertation embodying the results of original and creative research. The dissertation must demonstrate the student’s ability in independent investigation and must be a contribution to scientific or science education knowledge. It must display mastery of the literature of the subject field and must demonstrate an organized, coherent development of ideas, with a clear exposition of results and creative discussion of the conclusions.

The form and style of the dissertation should comply with the format prescribed by the journal in which the student intends to publish the material and must meet the requirements of “Instructions for Preparing Theses, Dissertations, D.A. Papers, and Professional Projects,” which is available from the Graduate School. Within the framework of these constraints, however, the format of the dissertation can vary, ranging from a series of stand-alone chapters, to a single, comprehensive unit. In the former case, a preface that explains the overall layout should be included. After the dissertation has been approved for format and content by the major professor, and not later than two weeks before the date of the final examination, the student must deliver a copy of the dissertation to each member of the Advisory Committee (including the GFR).

**Dissertation Defense**

The student’s Advisory Committee, including the GFR, will conduct the final examination of the dissertation. The final defense must be completed at least two weeks before the date set for the commencement exercises at which the student expects to obtain a degree. Students are required to give a departmental seminar on the dissertation immediately preceding the final defense. The examination is concerned primarily with the student’s research as embodied in the dissertation, but it will also include the Teaching Internships. A majority of the examining committee must approve the dissertation and the final defense.

**Master of Science (M.S.) in Biology**

A program of study leading to the Master of Science (M.S.) Degree is designed to enable students to develop an advanced understanding of the biological sciences and the capability to teach or conduct biological research. Programs are flexible and can be tailored to satisfy the professional and personal needs of each student.

**Admission Requirements**

The student must apply to, and meet all criteria for, admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with the following department requirements. Acceptance to an M.S. program is contingent upon a biology faculty member agreeing to serve as the applicant’s advisor. Students interested in pursuing an advanced degree in the biological sciences at Idaho State University are encouraged to contact the faculty member(s) with whom they wish to study, prior to making formal application to the department. Applicants must have at least a 3.0 GPA for all upper-division credits taken in the previous degree program. Scores on the verbal, quantitative, and analytical portions of the GRE must be submitted.

Certain courses are prerequisite for admission to the M.S. degree program, and any student who has not met these requirements through previous course work must take them as part of his/her M.S. program. These courses are:

1. One semester of calculus
2. One year of inorganic chemistry
3. One semester of organic chemistry
4. One semester of physics
5. Six additional credits in physics, chemistry, or mathematics that differ from those courses listed in 1-4 above.

Note: Because these are undergraduate courses, these credits do not count toward the 30-credit hour requirement for the M.S. degree.
General Requirements

A substantial, original research project is required that culminates in a written thesis and oral presentation of the findings at a Biological Sciences department seminar. A minimum of 30 credits (including research and thesis) are required in graduate courses and seminars that provide mastery in core conceptual areas in the biological sciences.

The core areas for the M.S. in Biology are:

1. genetics and evolution
2. animal or plant physiology
3. cell biology, biochemistry, or molecular biology, and
4. ecology or morphology

Students may gain expertise in the core areas through a variety of mechanisms, including graduate courses, seminars, special projects, or readings. Although there are no specific credit-hour requirements for the core areas, it is expected that the total effort expended in each area would be at least equivalent to that required in a rigorous course in that subject area, and that any credits earned as part of the graduate program will be at the graduate level (i.e., at the 5500-level or above). The credit hours earned in such classes will count toward the 30-credit requirement for the degree.

The ability to utilize a research tool is required, which can be satisfied by taking classes in biometry, electron microscopy, or a related field outside the biological sciences, such as geography, biology, or computer science. Graduate credits that satisfy the tool requirement count toward the 30-credit requirement for the degree.

Requirements for the M.S. Degree

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 6648</td>
<td>Graduate Problems</td>
<td>1-9</td>
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<tr>
<td>BIOL 6650</td>
<td>Thesis</td>
<td>1-6</td>
</tr>
<tr>
<td>BIOL 6691</td>
<td>Seminar</td>
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<td>&amp; BIOL 6692</td>
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M.S. students also must take a statistics course approved by their graduate committee.

Note: A student may take an unlimited number of credits of BIOL 6650 and BIOL 6648, although a maximum of only 6 credits of BIOL 6650 and 4 credits of BIOL 6648 may be counted toward the required 30 credit hours for the degree.

Total Hours: 4-17

Advisory Committee

The Advisory Committee consists of a minimum of three faculty members who are members of the Idaho State University graduate faculty. The student, in consultation with the major advisor, selects at least one additional faculty member from the Department of Biological Sciences. An additional faculty member from outside the Department of Biological Sciences, designated as the Graduate Faculty Representative (GFR), also must serve on the committee.

The GFR is appointed by the Dean of the Graduate School, who is open to recommendations from the major advisor. The GFR need only participate in the thesis defense, but may be involved throughout the student’s program. The initial committee meeting should be held during the first semester of the student’s graduate program.

Written Proposal, Proposal Seminar, and Proposal Defense

M.S. students are required to present a seminar on their proposed thesis research in the first year of their program. The purpose of this proposal seminar is to have each student develop and present formal statements of the objectives (hypotheses), design, and importance of their proposed research. Students must submit an abstract to the seminar organizer at least one week prior to their presentation. Students also must write a research proposal and have the proposal approved by the Advisory Committee by the end of the semester in which they present. This proposal will:

1. be at least 5 pages in length, with citations appended,
2. address comments that resulted from the seminar presentation, and
3. be retained in the student’s departmental file.


Each M.S. applicant must submit a thesis embodying the results of original and creative research. The thesis must demonstrate the student’s ability in scientific investigation. The thesis must include a comprehensive review of literature on the topic, and must demonstrate an organized, coherent development of ideas, with a clear exposition of results and creative discussion of the conclusions. The form and style of the thesis should comply with the format prescribed by the national- or international-level journal in which the student intends to publish the material and must meet the requirements of “Instructions for Preparing Theses, Dissertations, D.A. Papers, and Professional Projects,” which is available from the Graduate School. Within the framework of these constraints, however, the format of the thesis can vary in the number and arrangement of chapters.

Following completion of the written thesis, the student will present the research findings in a seminar. The thesis presentation will be followed by an oral defense conducted by the Advisory Committee. The student is responsible for scheduling the defense with the Graduate School and advertising the thesis seminar, with notices posted in the Life Sciences Building and in the Department newsletter, at least one week in advance of the seminar date. After the thesis has been approved for format and content by the major professor, and not later than two weeks before the date of the final examination, the student must deliver a copy of the thesis to each member of the Advisory Committee.

Please refer to http://isu.edu/bios/grad/guidelines/ for the manual, Instructions for Preparing Theses, Dissertations, Doctor of Arts Papers, and Professional Projects, for thesis clearance instructions.

Master of Science (M.S.) in Microbiology

The intent of the Microbiology M.S. program is to produce scientists with the ability to conduct independent research and to be fluent in the scientific literature. As a terminal degree, the Master of Science in Microbiology qualifies students for research positions in academia, industry and government research facilities. It also prepares students to progress into doctoral programs in Microbiology and related areas.

Admissions

Acceptance to the Microbiology M.S. program requires that a faculty member agree to serve as the candidate’s advisor. Candidates must have a minimum GPA for all upper division credits taken in the previous degree program. Scores in the verbal, quantitative, and analytical portions of the GRE must be submitted; scores in the 35th percentile or higher are required on the verbal and quantitative portions of the GRE. If either the GPA or GRE requirement is not met, the Microbiology Graduate Program Committee may choose to admit the candidate to " Classified (w/PR)" status.

Prerequisites

It is expected that applicants to the program will have a broad scientific background, and will have completed coursework at the undergraduate level in the following areas:

- 1 semester of Calculus (Calculus through Multivariable Calculus recommended)
Graduate Programs Committee. The GFR is appointed by the Dean of the

At least one of the advisory committee must be a member of the Microbiology

additional faculty member with expertise related to the student's research area.

(GFR). The student, in consultation with the major advisor, selects at least one

Committee and the Graduate School are required to complete the Microbiology

Thirty total graduate credits approved by the Microbiology Graduate Programs

The Microbiology M.S. program will be tailored to the requirements of the

owners, and will include coursework to rectify any deficiencies as determined by the

advisor's Committee.

Coursework taken at the undergraduate level to satisfy deficiencies does not

count toward the graduate degree; however, such coursework must appear on

student’s Planned Program of Study. Coursework taken at the undergraduate

to satisfy deficiencies must be taken for letter grades and the grades earned

must be “C” or better.

Graduate Coursework in the Microbiology M.S. program

The M.S. program requires a substantial, original research project that culminates

in a thesis; a minimum of 30 credits (including research and thesis) earned in

graduate courses and seminars and expertise in one or more conceptual areas of

major sub-disciplines of Microbiology. The student’s Advisory Committee

direct the student to specific course offerings to satisfy the coursework

guidelines.

The three core areas in the Microbiology M.S. program are:

• Biochemistry, Genetics, Molecular Biology, and Physiology of

 Microorganisms

• Immunology, Virology, and Medical Microbiology

• Microbial Ecology and Applied, Industrial, and Environmental Microbiology

Thirty total graduate credits approved by the Microbiology Graduate Programs

Committee and the Graduate School are required to complete the Microbiology

M.S. degree program. At least 15 of these credit hours must be earned at the

6600 level. Students must take a minimum of 3 credits of BIOL 6648 Graduate

Problems and 3 credits of BIOL 6650 Thesis. During the second semester of

their first year in the program, students in the Microbiology M.S. program will

present their research proposal in a public forum as part of BIOL 6695 Seminar

in Microbiology. Students in the Microbiology M.S. program will also take 2

additional credits of Seminar in Microbiology (BIOL 6695).

Course Requirements

BIOL 6610  Principles of Molecular Biology  3
BIOL 6648  Graduate Problems  3
BIOL 6650  Thesis  3
BIOL 6695  Seminar in Microbiology  3
Other course work  6

Total Hours  18

Advisory Committee

The Advisory Committee consists of a minimum of three members of the Idaho

State University Graduate Faculty, including a Graduate Faculty Representative

(GFR). The student, in consultation with the major advisor, selects at least one

additional faculty member with expertise related to the student’s research area.

At least one of the advisory committee must be a member of the Microbiology

Graduate Programs Committee. The GFR is appointed by the Dean of the

Graduate School, who is open to recommendations from the major advisor. The

GFR need only participate in the thesis defense, but may be involved throughout

the student’s program. The initial committee meeting should be held during the

first semester of the student’s graduate program.

Written Proposal, Proposal Seminar, and Proposal Defense

During the second semester of the first year in the program, Microbiology M.S.

students must submit a research proposal to the student’s Advisory committee

two weeks prior to a formal seminar presentation of the proposed research. This

proposal will:

1. be at least 5 pages in length, with citations appended,
2. be retained in the student’s departmental file.

Students will present a seminar on their proposed thesis research as part of BIOL

6695. At least one week prior to the seminar, students must submit an abstract to

the seminar organizer. Immediately following the proposal seminar, the student

will defend the proposal in a closed session with their Advisory Committee. A

revised proposal addressing questions raised at the defense must be approved

by the advisory committee by the end of the semester in which the seminar was

given.


Each Microbiology M.S. applicant must submit a thesis embodying the results

of original and creative research. The thesis must demonstrate the student’s

ability in scientific investigation. The thesis must include a comprehensive

review of the literature on the topic, and must demonstrate an organized, coherent

development of ideas, with a clear exposition of results and creative discussion

on the conclusions. The form and style of the thesis should comply with the

format prescribed by the national or international-level journal in which the

student intends to publish the material and must meet the requirements of

“Instructions for Preparing Theses, Dissertations, D.A. Papers, and Professional

Projects,” which is available from the Graduate School. Within the framework

of these constraints, however, the format of the thesis can vary in the number

and arrangement of chapters. After the thesis has been approved for format and

content by the major professor, and not later than two weeks before the date

of the final examination, the student must deliver a copy of the thesis to each

member of the advisory committee.

Following completion of the written thesis, the student will present the research

findings in a public seminar. The thesis presentation will be followed by an

oral defense conducted by the Advisory Committee. The student is responsible

for scheduling the defense with the Graduate School and advertising the thesis

seminar, with notices posted in the Life Sciences Building and in the Department

newsletter, at least one week in advance of the seminar date. Please refer to

http://isu.edu/bios/grad/guidelines/ for the manual, Instructions for Preparing

Theses, Dissertations, Doctor of Arts Papers, and Professional Projects, for thesis

clearance instructions.

Residency Requirements

The equivalent of at least two years of full-time study is required. Part of the

work may be completed elsewhere with the approval of a student’s Advisory

Committee, but two consecutive regular semesters of full-time study must be

taken in residence at this university.

Bachelor of Science/Master of Science

The goal of this option is to allow academically strong students to begin work

towards an M.S. degree after completing the Junior year. This will allow students

to complete an M.S. degree, as well as a B.S. degree, with only one additional

year in school. This option is only available to students who have demonstrated

an interest in independent research before the end of the Junior year, who can
BIOL 5505L Plant Form and Function Lab: 1 semester hour.
Assignments to apply principles from BIOL 5505. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5505

BIOL 5506 Plant Diversity and Evolution: 4 semester hours.
Study of the reproduction, structure, development, evolution, and classification of the fungi, algae, bryophytes, and vascular plants. Lectures, laboratories. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5506L

BIOL 5506L Plant Diversity and Evolution Lab: 0 semester hours.
Assignments to apply principles from BIOL 5506. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5506

BIOL 5508 Plant Ecology: 3 semester hours.
Major factors limiting plant growth and distribution with emphasis on adaptation and response at the individual, population, and community levels. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5508L Plant Ecology Lab: 1 semester hour.
Assignments to apply principles from BIOL 5508. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5508

BIOL 5512L Systematic Botany Lab: 0 semester hours.
Assignments to apply principles from BIOL 5512. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5512

BIOL 5512 Systematic Botany: 4 semester hours.
Study of classification and evolution of flowering plants; techniques of phylogeny reconstruction based on molecular and morphological characters. Collection/identification of local flora. Field trips. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5512L

BIOL 5514 Graduate Teaching Assistant Seminar: 2 semester hours.
Introduction to college science teaching, with an emphasis on inquiry-based methods in the laboratory setting. Topics include how people learn, classroom management, professional ethics, peer evaluation of teaching. Required for secondary education major in biology. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: 16 credit-hours of Biology, or permission of instructor

BIOL 5515L Human Neurobiology Lab: 1 semester hour.
Detailed examination of the gross anatomy and pathways of the human central nervous system. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor

BIOL 5516 Population Ecology: 3 semester hours.
Introduces quantitative analysis of populations and communities, emphasizing demography, distribution, abundance, spatial and temporal dynamics, biodiversity, coexistence, and applications to conservation and land use decision-making. Includes data collection and analysis. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5516L. PREREQ: BIOL 2209
BIOL 5516L. Population Ecology Lab: 1 semester hour. Assignments to apply principles from BIOL 5516. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5516. PREREQ: BIOL 2209

BIOL 5517. Organic Evolution: 3 semester hours. An integrated study of evolution as a unifying concept in biology. An examination of patterns and processes that affect the origin and diversification of species through time. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5518 Ecological Topics: 1 semester hour. Flexible use of seminars, lectures, and laboratory/field work dealing with current issues in ecology. Topic emphasis varies. May be repeated until a maximum of 3 credits is earned. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5519. Mammalian Histology: 4 semester hours. Study of human animal tissues, including structural and functional characteristics of tissues and organs. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5519L

BIOL 5519L. Mammalian Histology Lab: 0 semester hours. Assignments to apply principles from BIOL 5519. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5519

BIOL 5520. Musculo-Skeletal Anatomy: 2 semester hours. Study of human body structure emphasizing muscular system and its relationship to axial and appendicular skeleton. Focus on extremities, thorax, and pelvis with applications toward normal, diseased and rehabilitative functions. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5521 Ecological Concepts: 3 semester hours. Major concepts in ecology in relation to environmental degradation, pollution, hazardous materials, and environmental management. Credit may not be used for a graduate degree in biology. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5522. General Parasitology: 3 semester hours. Study of structure, development, classification, and life histories of insects, including ecological, economic and management considerations. An insect collection may be required. Field trips. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5521

BIOL 5523 General Entomology: 3 semester hours. Study of animal parasites, with an emphasis on protists, helminths and arthropods affecting human health and welfare by their presence or indirectly via pathogens they transmit. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5523

BIOL 5524. Medical Parasitology and Entomology Lab: 0 semester hours. Assignments to apply principles from BIOL 5524. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5523

BIOL 5525. Microbial Physiology: 3 semester hours. Comprehensive discussion/presentation of structure, function and metabolism of biological macromolecules and their constituents, including energetics, regulation, and molecular biology, with emphasis on critical analysis of biochemical issues. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Organic Chemistry or Introduction to Biology or permission of instructor

BIOL 5526. Herpetology: 3 semester hours. The biology of amphibians and reptiles; lecture topics include evolutionary history, functional morphology, physiological ecology, reproductive, and population ecology. Laboratories and field trips cover systematic, natural history, and collecting/sampling techniques. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5526L

BIOL 5526L. Herpetology Lab: 1 semester hour. Assignments to apply principles from BIOL 5526. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5526

BIOL 5527 Ichthyology: 3 semester hours. The biology of fishes; lecture topics include evolutionary history, functional morphology, physiological ecology, and biogeography. Laboratory and weekend field trips cover identification, life history and collecting techniques. Emphasis on Idaho species. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5527L

BIOL 5527L. Ichthyology Lab: 1 semester hour. Assignments to apply principles from BIOL 5527. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5527

BIOL 5528 Medical Parasitology and Entomology: 3 semester hours. Study of animal parasites, with an emphasis on protists, helminths and arthropods affecting human health and welfare by their presence or indirectly via pathogens they transmit. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5528L

BIOL 5528L. Medical Parasitology and Entomology Lab: 0 semester hours. Assignments to apply principles from BIOL 5528. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5528

BIOL 5529 Regional Anatomy and Histology: 4 semester hours. Regional approach to gross human anatomy emphasizing the use of prospected materials and microscopic anatomy. Designed primarily for students in the Physician Assistant Program. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5529

BIOL 5529L. Regional Anatomy and Histology Lab: 0 semester hours. Assignments to apply principles from BIOL 5529. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5529

BIOL 5530. Insect Physiology: 3 semester hours. Study of animal parasites, with an emphasis on protists, helminths and arthropods affecting human health and welfare by their presence or indirectly via pathogens they transmit. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5523

BIOL 5531 General Entomology: 3 semester hours. Study of human animal tissues, including structural and functional characteristics of tissues and organs. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5530

BIOL 5531L General Entomology Lab: 1 semester hour. Assignments to apply principles from BIOL 5531. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5531

BIOL 5532 Biochemistry: 3 semester hours. Comprehensive discussion/presentation of structure, function and metabolism of biological macromolecules and their constituents, including energetics, regulation, and molecular biology, with emphasis on critical analysis of biochemical issues. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Organic Chemistry or Introduction to Biology or permission of instructor

BIOL 5533 Microbial Physiology: 3 semester hours. Comparative physiology of microorganisms, including structure/function, metabolic diversity, enzyme mechanisms of microbial metabolism, and physiology of extreme organisms. Lectures, Class Exercises. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5533L. PREREQ: Microbiology and Bio-chemistry or permission of instructor

BIOL 5533L. Microbial Physiology Lab: 1 semester hour. Laboratory exercises in comparative physiology of microorganisms. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5533

BIOL 5534 Microbial Diversity: 3 semester hours. Enrichment, cultivation, and isolation of prokaryotes from various metabolic groups and environments. Microorganisms will be identified using classical microbial techniques and modern molecular methodologies. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5534L. PREREQ: Microbiology and BIOL 5533 or permission of instructor
BIOL 5534L. Microbial Diversity Lab: 1 semester hour. Enrichment, cultivation and isolation of prokaryotes from various metabolic groups and environments. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5534

BIOL 5535 Vertebrate Paleontology: 4 semester hours. Phylogenetic history of the vertebrates outlined in the light of morphology, classification, evolution, paleoecology, and the significance of fossils. Field trips. Equivalent to GEOL 5535. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: GEOL 5531 or BIOL 3314 (or equivalent)

BIOL 5537 Experimental Biochemistry: 1 semester hour. Laboratory course including both qualitative and quantitative experiments. Equivalent to CHEM 5538. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ or COREQ: BIOL 5532 or BIOL/CHEM 5545

BIOL 5538 Ornithology: 4 semester hours. Study of the origin, evolution, structure, habits, adaptations, distribution, and classification of birds. Field trips. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5539 Principles of Taphonomy: 3 semester hours. Effects of processes which modify organisms between death and the time the usually fossilized remains are studied. Emphasis on vertebrates. Equivalent to ANTH 5539 and GEOL 5539. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor

BIOL 5540 Human Gross Anatomy: 4 semester hours. Comprehensive regional study of gross human anatomy with emphasis on the upper limb, thorax, abdomen, pelvis and perineum. Designed for the first year dental students and complements BIOL 5550. Lecture and laboratory. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5540L

BIOL 5540L. Human Gross Anatomy Lab: 0 semester hours. Assignments to apply principles from BIOL 5540. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5540

BIOL 5541 Mammalogy: 3 semester hours. General study of mammals including classification, identification, habits, ecology, economics, and techniques of study, with emphasis on North American forms. Field trips. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5541L

BIOL 5541L. Mammalogy Lab: 1 semester hour. Assignments to apply principles from BIOL 5541. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5541

BIOL 5542 Plant-Animal Interactions: 3 semester hours. Coevolution of plant and animal form and function emphasizing pollination, herbivory, parasitism, frugivory/seed dispersal, and optimal foraging. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5543 Endocrinology: 3 semester hours. Study of the anatomy and physiology of the ductless glands and the properties and uses of natural and synthetic hormones. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5544 Cell and Molecular Biology: 4 semester hours. Fundamental principles of molecular biology: DNA replication, repair, and recombination, transcriptional and post-transcriptional regulation of gene expression, RNA metabolism, protein synthesis, targeting and turnover, post-translational modifications, signal transduction, regulation of the cell division cycle, and molecular genetics of development. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Introductory Biology and Organic Chemistry. COREQ: BIOL 5544L

BIOL 5544L. Cell and Molecular Biology Lab: 1 semester hour. Laboratory techniques in molecular biology, including cloning, PCR and DNA sequencing. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5544

BIOL 5545 Biochemistry I: 3 semester hours. Introduction to basic aspects of biochemical systems, including fundamental chemical and physical properties of biomolecules. Enzymology including allostery, metabolic regulation, bioenergetics, and carbohydrate metabolism. Equivalent to CHEM 5545. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Introduction to Biology and Organic Chemistry or permission of instructor

BIOL 5546 Selected Topics in Physiology: 1 semester hour. Selected topics in physiology for dental students: blood coagulation-complement-kinin systems, prostaglandin and related substances, vitamins, steroids, mucopolysaccharides, collagen and other extracellular matrix molecules and cyto- and molecular genetics. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5547 Biochemistry II: 3 semester hours. Functional continuation of BIOL 5545. Lipid, amino acid and nucleotide metabolism. Emphasis is on metabolic regulation, metabolic dysfunction, biochemical mechanism of hormone action, biochemical genetics, protein synthesis, and metabolic consequences of genetic defects. Equivalent to CHEM 5547. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: BIOL/CHEM 5545

BIOL 5548 Advanced Experimental Biochemistry: 2 semester hours. Advanced laboratory projects designed to emphasize techniques of qualitative and quantitative biochemical analysis. Equivalent to CHEM 5548. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: BIOL 5537/CHEM 5538. COREQ: BIOL/CHEM 5547

BIOL 5549 Human Physiology I: 4 semester hours. First of a two-course sequence. Physiology of the nervous, muscular, circulatory, respiratory, and excretory systems. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5525

BIOL 5550 Head and Neck Anatomy: 4 semester hours. Comprehensive presentation of the anatomy of the head and neck as it applies to the practice of dentistry. Lecture and laboratory. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5550L

BIOL 5550L. Head and Neck Anatomy Lab: 0 semester hours. Assignments to apply principles from BIOL 5550. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5550

BIOL 5551 Immunology: 3 semester hours. Fundamental concepts of antibody-mediated and cell-mediated mechanisms of immunity. In-vivo and invitro antigen-antibody interactions are discussed. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Microbiology or permission of instructor
BIOL 5551L Immunology Laboratory: 1 semester hour.
Selected laboratory experiments to accompany BIOL 5551 Immunology. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. Open to non-majors by special permission. PREREQ or COREQ: BIOL 5551

BIOL 5553 Foundations in Neuroscience: 3 semester hours.
Organizing principles in neuroscience including biological signaling of excitable cells, neuroanatomy and regional brain functions, and sensorimotor integration of behavior. Specific, graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor

BIOL 5554 Advanced Immunology: 3 semester hours.
Detailed study of selected areas of immunobiology. Course content will vary with current demand. Students will lead discussions and present current literature. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: BIOL 5551 and permission of instructor

BIOL 5555 Pathogenic Microbiology: 3 semester hours.
How the medically important bacteria, viruses and fungi interact with the host to produce disease, including microbe characteristics, pathogenesis, pathological processes, prevention, and treatment methods. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Microbiology or permission of instructor

BIOL 5555L Pathogenic Microbiology Laboratory: 2 semester hours.
Will emphasize procedures for the isolation and identification of pathogenic bacteria. Clinical specimens will be provided for use in identification of unknowns. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ or COREQ: BIOL 5555

BIOL 5556 Human Physiology II: 4 semester hours.
Physiology of gastrointestinal, endocrine, and reproductive systems. Includes studies of acid-base balance, peripheral circulation, shock, and temperature regulation. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ or COREQ: BIOL 5555

BIOL 5559 Fish Ecology: 3 semester hours.
Study of the behavior, habitat use, population dynamics, and management of freshwater fishes, especially salmon and trout. Laboratory and weekend field trips emphasize sampling techniques and data analysis. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5559L. PREREQ: BIOL 5527

BIOL 5559L Fish Ecology Lab: 1 semester hour.
Assignments to apply principles from BIOL 5559. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5559. PREREQ: BIOL 5527

BIOL 5560 Neuroscience: 4 semester hours.
Comprehensive presentation of the anatomy of the central nervous system, the brain and spinal cord. Combined lecture and laboratory demonstration. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor

BIOL 5560L Neuroscience Lab: 1 semester hour.
Detailed examination of the gross anatomy and pathways of the human central nervous system. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor

BIOL 5561 Advanced Genetics: 3 semester hours.
Detailed and critical consideration of selected genetic topics with emphasis of recent advances. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor

BIOL 5562 Freshwater Ecology: 3 semester hours.
Study of the interaction of physical and biotic factors in aquatic communities. Field trips. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5562L

BIOL 5562L Freshwater Ecology Lab: 1 semester hour.
Assignments to apply principles from BIOL 5562. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5562

BIOL 5563 Human Pathophysiology: 4 semester hours.
The study of basic processes underlying diseases with an emphasis on correlating anatomical, functional, and biochemical alterations with clinical manifestations. Laboratory required. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5563L

BIOL 5563L Human Pathophysiology Lab: 0 semester hours.
Assignments to apply principles from BIOL 5563. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus.

BIOL 5564 Lectures in Human Physiology: 4 semester hours.
Physiology of the nervous, muscular, circulatory, respiratory, and excretory systems. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5565 Medical Mycology: 3 semester hours.
Lecture/Laboratory course addressing medically important fungi. Taxonomy, clinical disease, pathogenesis, immunological diagnosis and laboratory identification of contaminants, opportunists, superficial, cutaneous, subcutaneous and systemic mycoses. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5566 Medical Mycology: 3 semester hours.
Study of microbiology of plaque, caries, periodontal disease, immunobiology of oral disease and control of microorganisms with antimicrobial agents. Four periods devoted to laboratory study of medically important oral microbes. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ or PREREQ: BIOL 5555

BIOL 5569 Special Topics in Microbiology: 1-4 semester hour.
Study of selected topics in microbiology. Course contents will vary with topics selected. May be repeated with departmental approval for non-repetitive course content. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor

BIOL 5570 Cross-Sectional Anatomy: 2 semester hours.
Applied regional anatomy as viewed in sectional planes, emphasizing topographic relationships of organs and surface anatomy, with interpretation of correlated CT and MRI imaging. Specific, evaluated graduate-level activities and/ or performances are identified in the course syllabus

BIOL 5571 Biological Imaging: 3 semester hours.
Microscopy with an emphasis on image formation, documentation, interpretation and analysis relevant to experimental applications in the biological sciences. Lecture and laboratory with independent research component. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5573 Applied and Environmental Microbiology: 3 semester hours.
Concepts in applied microbiology and microbial ecology, including fermentation, biotechnology, and ecophysiology. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5573L

BIOL 5573L Applied and Environmental Microbiology Lab: 1 semester hour.
Laboratory exercises in applied and environmental microbiology. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5573
BIOL 5574 Human Anatomy-Occupational Therapy and Physical Therapy: 5 semester hours.
Applied regional anatomy emphasizing the development, histology and gross anatomy of the musculoskeletal, peripheral nervous, and cardiopulmonary systems. Includes laboratory with cadaver dissection. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor. COREQ: BIOL 5574L

BIOL 5574L Human Anatomy-Occupational Therapy and Physical Therapy Lab: 0 semester hours.
Assignments to apply principles from BIOL 5574. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5574

BIOL 5575 General Virology: 3 semester hours.
Introduction to the general principles of virology through consideration of structure, genetics, replication, and biochemistry of animal and bacterial viruses. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5577 Bacterial Virology Laboratory: 1 semester hour.
Designed to acquaint students with the techniques and experimental principles used in the study of bacterial viruses. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5575

BIOL 5578 Animal Virology Laboratory: 1 semester hour.
Introduces tissue culture methods and other techniques employed in the study of animal viruses. Must be accompanied by BIOL 5575. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5580 Mentored Research Alliance: 2 semester hours.
Discovery research in life sciences conducted in a cooperative learning community that includes mentoring undergraduates. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. May be repeated. PREREQ: Permission of the instructor

BIOL 5581 Independent Problems: 1-4 semester hour.
Individual problems will be assigned to students on the basis of interest and previous preparation. May be repeated. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: A minimum of two courses in Biological Sciences and permission of instructor

BIOL 5582 Independent Problems: 1-4 semester hour.
Individual problems will be assigned to students on the basis of interest and previous preparation. May be repeated. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: A minimum of two courses in Biological Sciences and permission of instructor

BIOL 5586 Human Systemic Physiology: 5 semester hours.
One semester human physiology course emphasizing the function and regulation of the muscular, skeletal, circulatory, respiratory, urinary, reproductive, and immune systems. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5586L

BIOL 5586L Human Systemic Physiology Lab: 0 semester hours.
Assignments to apply principles from BIOL 5586. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. COREQ: BIOL 5586

BIOL 5588 Advanced Radiobiology: 3 semester hours.
An advanced-level class covering aspects of molecular radiobiology, teratogenesis, oncogenesis, and acute radiation illnesses. It also considers nonstochastic radiation effects and the epidemiology of radiation exposures. Equivalent to HPHY 5588. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Permission of instructor

BIOL 5589 Field Ecology: 4 semester hours.
An intensive field of study of at least one biogeographical region to increase students' knowledge of and skill with field sampling techniques, field-study design, data collection and analysis, and report preparation. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5590 Ecosystem Ecology and Global Change: 4 semester hours.
Examination of the structure and function of ecosystems and their responses to natural and anthropogenic changes emphasizing energy, water, carbon, and nitrogen cycling. Field trips. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5595 Animal Behavior: 4 semester hours.
Behavior of animals and the evolutionary mechanisms that dictate behavioral patterns. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. May be graded S/U. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5598P Prof Development Workshop: 3 semester hours.
New methods and opportunities to enhance and supplement skills. Subject to the approval of the Dean of the student's college, a maximum of eight credits earned in workshops may be applied toward a degree; students taking the courses only for personal development may choose the 0-credit option; those seeking professional development must choose a for-credit option. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

BIOL 6601 Advanced Animal Behavior: 3 semester hours.
Behavior and social organization of animals with particular attention to the vertebrates. Lecture, laboratory, and field work. PREREQ: Graduate standing and permission of department

BIOL 6602 Advanced Plant Physiology: 3 semester hours.
Study of interrelationships of soil, water, and minerals in the nutrition of plants. PREREQ: BIOL 5504

BIOL 6603 Comparative Physiology: 3 semester hours.
Study of the ways in which organisms meet their functional requirements. Lecture and laboratory. PREREQ: Permission of department

BIOL 6604 Advanced Ecology of Streams and Rivers: 3 semester hours.
Study of the ecology of streams; chemical, physical, and geological aspects in relation to biota. The production of organic matter in flowing water is emphasized, including the tracing of food chains and food webs and the construction of energy budgets. Field trips. PREREQ: Permission of instructor

BIOL 6605 Biometry: 4 semester hours.
Application of descriptive and analytical statistical methods to experimental design and biological research

BIOL 6606 Scientific Writing: 3 semester hours.
Review of basic principles of grammar, organization, style, and persuasive argument as applied to specific areas of scientific writing. Each student will write proposals, technical reports and review manuscripts, and reviews of proposals and manuscripts
BIOL 6607 Environmental Physiology: 3 semester hours.
Study of the physiological mechanisms and interrelated behavioral patterns by which animals respond to environmental factors. PREREQ: Graduate standing and permission of instructor

BIOL 6608 Stable Isotopes in Environmental Science: 4 semester hours.
Theory and use of stable isotopes in natural sciences, with an emphasis towards the fields of ecology, geology and archeology. Basic principles of stable isotope analysis and applications towards understanding cycles of C, N, S and water, food web analysis, and paleoclimate. Individual student laboratory projects developed and carried out

BIOL 6610 Principles of Molecular Biology: 3 semester hours.
Introduction to subcellular biology and molecular genetics. DNA replication, cell division, the genetic code, transcription, translation, enzyme function, and control mechanisms in procaryotic and eucaryotic cells. PREREQ or COREQ: BIOL 5532

BIOL 6613 Biogeography: 3 semester hours.
Discussion of patterns of distribution of species and their historical and ecological causes. Includes research project

BIOL 6614 Evolutionary Ecology: 3 semester hours.
Evolutionary theory applied to ecological processes, including selection theory, ecological genetics, life-history evolution and coevolution. PREREQ: BIOL 5517

BIOL 6616 Advanced Community Ecology: 4 semester hours.
Historical and contemporary concepts and methods in community ecology and its interface with other fields, including molecular biology, informatics, conservation, social sciences, and landscape and ecosystem ecology. Emphasizes quantitative models and data analysis

BIOL 6621 Advanced Methods in Microbiology: 3 semester hours.
PREREQ: Graduate standing and permission of instructor

BIOL 6623 Soil and Ground Water Bioremediation: 3 semester hours.
Theoretical and applied aspects of biological treatment for contaminated subsurface systems

BIOL 6624 Microbial Ecology: 3 semester hours.
Ecological principles applied to microorganisms. PREREQ: Course in Microbiology

BIOL 6628 Cytology and Cell Physiology: 4 semester hours.
Advanced study of the functions and structural components of cells. Lecture and laboratory. PREREQ: Permission of instructor

BIOL 6629 Basic Concepts in Biology: 3 semester hours.
Considerations of fundamental concepts of biology, their origin and development. PREREQ: Permission of the instructor

BIOL 6631 Advanced Systematic Botany: 3 semester hours.
Classification of plants as it rests on morphological, chemical, ecological, and genetic bases. PREREQ: BIOL 5512

BIOL 6632 Advanced Systematic Botany: 3 semester hours.
Classification of plants as it rests on morphological, chemical, ecological, and genetic bases. PREREQ: BIOL 5512

BIOL 6633 Advanced Microbial Physiology: 3 semester hours.
Advanced topics in microbial physiology and biochemistry. PREREQ: BIOL 5532 and permission of instructor

BIOL 6634 Intermediary Metabolism: 3 semester hours.
Theory, reactions, and methods pertinent to research in intermediary metabolism. PREREQ: BIOL 5532 and permission of instructor

BIOL 6636 Experimental Intermediary Metabolism: 2 semester hours.
Must be accompanied by or preceded by BIOL 6634

BIOL 6641 Adv Topics in Immunology: 1-4 semester hour.
Current research and practice in immunology and immunohematology (transfusion medicine) including molecular approach to diagnosis and treatment. May be repeated for a maximum of 4 credits

BIOL 6648 Graduate Problems: 1-9 semester hour.
Thesis related research. May be repeated. Graded S/U. PREREQ: Graduate standing and permission of instructor

BIOL 6650 Thesis: 1-6 semester hour.
1 to 6 credits. May be repeated. Graded S/U

BIOL 6651 Advanced Studies in Ecology: 2-6 semester hour.
Flexible use of seminars, lectures, and laboratory work dealing with ecological relationships. May be repeated

BIOL 6652 Advanced Studies in Physiology: 2-6 semester hour.
Flexible use of seminars, lectures, and laboratory work dealing with problems in physiology. May be repeated

BIOL 6653 Advanced Studies in Vertebrate Zoology: 2-6 semester hour.
Flexible use of seminars, lectures, and laboratory work dealing with problems in vertebrate zoology. May be repeated

BIOL 6654 Advanced Studies in Invertebrate Zoology: 2-6 semester hour.
Flexible use of seminars, lectures, and laboratory work dealing with problems in invertebrate zoology. May be repeated

BIOL 6655 Advanced Studies in Vertebrate Paleontology: 2-6 semester hour.
Flexible use of seminars, lectures, and laboratory work dealing with problems in vertebrate paleontology. May be repeated

BIOL 6656 Advanced Studies in Systematic Biology: 2-6 semester hour.
Flexible use of seminars, lectures, and laboratory work dealing with problems in systematic biology. May be repeated

BIOL 6657 Advanced Studies in Plant Biology: 2-6 semester hour.
Flexible use of seminars, lectures, and laboratory work dealing with problems in plant biology. May be repeated

BIOL 6658 Advanced Studies in Limnology: 2-6 semester hour.
Flexible use of seminars, lectures, and laboratory work dealing with problems in limnology. May be repeated

BIOL 6659 Advanced Studies in Genetics: 2-6 semester hour.
Flexible use of seminars, lectures, and laboratory work dealing with problems in genetics. May be repeated

BIOL 6660 Selected Topics in Biochemistry: 3 semester hours.
Detailed study of selected areas of biochemistry. Course content will vary with current demand. PREREQ: BIOL 5532 or permission of instructor

BIOL 6661 Advanced Studies in Environmental Physiology: 2-6 semester hour.
Flexible use of seminars, lectures, and laboratory work dealing with problems in environmental physiology. May be repeated

BIOL 6662 Advanced Studies in Developmental Biology: 2-6 semester hour.
Flexible use of seminars, lectures, and laboratory work dealing with problems in developmental biology. May be repeated

BIOL 6670 Selected Topics Microbiology: 1-4 semester hour.
Detailed study of selected areas of microbiology. Course content will vary with current demand. May be repeated. PREREQ: Permission of instructor

BIOL 6675 Advanced Bacterial Virology: 3 semester hours.
Detailed study of selected areas of bacterial virology. Course content will vary with current demand. PREREQ: BIOL 5575 and permission of instructor

BIOL 6676 Advanced Animal Virology: 3 semester hours.
Detailed study of selected areas of animal virology. Course content will vary with current demand. PREREQ: BIOL 5575 and permission of instructor
BIOL 6687 Environmental Science and Pollutants: 3 semester hours.
Structure and function of ecosystems, sources and characteristics of hazardous materials, mechanisms and pathways of pollutant transport and degradation, mechanisms of pollutant impact on ecosystems and human health. PREREQ: BIOL 5521, an undergraduate or graduate ecology course or equivalent

BIOL 6691 Seminar: 1 semester hour.
Review of current research and literature. May be repeated until a maximum of 4 credits is earned. Graded S/U

BIOL 6692 Seminar: 1 semester hour.
Review of current research and literature. May be repeated until a maximum of 4 credits is earned. Graded S/U

BIOL 6693 Seminar in College Teaching: 2 semester hours.
Review of current research and literature. Rotation of topics will include professional development, theory and practice of science education, and current issues in biology instruction. May be repeated for up to 6 credits. Graded S/U

BIOL 6694 Advanced Study in College Teaching: 2-6 semester hour.
Rotating topics on practical approaches to teaching college-level biology and conducting research in science education. May be repeated for up to 6 credits

BIOL 6695 Seminar in Microbiology: 1-3 semester hour.
Review of current research and literature in Microbiology. May be repeated until 6 credits are earned. Graded S/U

BIOL 6696 Seminar in Microbiology: 1-3 semester hour.
Review of current research and literature. May be repeated until a maximum of 4 credits is earned. Graded S/U

BIOL 6697 Seminar in Microbiology: 1-3 semester hour.
Review of current research and literature in Microbiology. May be repeated until 6 credits are earned. Graded S/U

BIOL 7700 Supervised Teaching Internship: 1-9 semester hour.
Up to 9 credits per semester. May be repeated. Graded S/U

BIOL 8850 Doctors Dissertation: 1-12 semester hour.
Dissertation. Variable credit. May be repeated. Graded S/U

Chemistry
Chair and Professor: Rodriguez
Professors: Castle, DeJesus, Holman, Kalivas, Pak, J. Rosentreter
Associate Professors: Evilia, Goss, Holland
Assistant Professors: Bennett
Senior Lecturers: R. Rosentreter
Associate Lecturers: Omar
Assistant Lecturers: Halpenny-Weathersby, Jolley, Quarder

Master of Science in Chemistry
Goals
1. Graduates will attain a broad knowledge in their focus area of chemistry.
2. Graduates will conduct novel research in chemistry.
3. Graduates will be prepared to continue their education in pursuit of a doctorate.

Combined BS/MS Program in Chemistry
Goals
1. Students will obtain a broad knowledge in the four major areas of chemistry.
2. Graduates will conduct research in a narrow part of one of the above.
3. Graduates will be prepared to continue their education in pursuit of a doctorate.

Application Process
All applications to Chemistry must be postmarked by April 1, and should include the following components in addition to the application form:
1. Official transcripts describing all post-secondary work.
2. A letter of intent describing your reasons for choosing our program, and how you personal strengths and goals align with your expectations of the program.
3. Three letters of recommendation from professionals in the sciences or mathematics attesting to your potential to succeed in a graduate chemistry program.

Doctor of Philosophy in Engineering and Applied Science
A doctoral program in Engineering and Applied Science, administered through the College of Science and Engineering, is available to Chemistry students. The complete program description is provided elsewhere in the College of Science & Engineering section of the Graduate Catalog.

Master of Science in Chemistry
The M.S. program includes both thesis and non-thesis options.

Thesis Option
The M.S. program, thesis option, requires a substantial, original research project that culminates in a thesis, a minimum of 30 credits (including thesis credit) earned in graduate courses and seminars.

Non-Thesis Option
A non-thesis option exists in which students are required to take 15 credits of approved 6600-level chemistry courses, including CHEM 6601 Seminar (2 credits), and 15 credits of graduate electives.

Admission Requirements
The student must meet all criteria for admission to the Graduate School (as listed on pages 7-9).

In addition, applicants must have at least a 3.0 GPA for all upper-division credits taken in the previous degree program (a B.S. or a B.A. in Chemistry). Graduate Record Examination (GRE) scores of two of the three sections must be in the 35th percentile or higher.

Several courses are prerequisite for the M.S. degree programs; any student who has not met these requirements through previous course work must take them as part of his/her M.S. program. These are:
1. one semester of calculus,
2. one year of physics,
3. one semester of inorganic chemistry,
4. one year of organic chemistry,
5. one semester of analytical chemistry,
6. one year of physical chemistry.

Because these are undergraduate course prerequisites, any credit earned in taking these courses does not count toward the 30 credit requirement for the M.S.

**General Requirements**

The Master of Science in Chemistry (Thesis Option) requires a minimum of 30 total credits approved by the Department of Chemistry and the Graduate School. Required courses include one of the following:

- **CHEM 6609** Advanced Inorganic Chemistry 3
- **CHEM 6630** Advanced Analytical Chemistry 3
- **CHEM 6655** Advanced Physical Chemistry 3
- **CHEM 6671** Advanced Organic Chemistry 3

AND

- 6000 level lecture courses in Chemistry or related disciplines 6
- **CHEM 6601** Seminar (2 credits minimum) 1
- **CHEM 6650** Thesis 6-10

**Combined BS/MS Program in Chemistry**

**Goals**

1. Students will obtain a broad knowledge in the four major areas of Chemistry.
2. Graduates will conduct research in a narrow part of one of the above.
3. Graduates will be prepared to continue their education in pursuit of a Ph.D.

**Admission Requirements**

Students may be admitted to the program after having completed 64 credit hours. Application for admission must be made to the Chemistry Department. Students may be admitted to the program after having completed 64 credit hours. Application for admission must be made to the Chemistry Department.

**Required Courses (2nd and 3rd years)**

- **CHEM 4481** Independent Problems in Chemistry 1-4
- **CHEM 4482** Independent Problems in Chemistry 1-4

**Required Courses (2nd and 3rd years)**

- **CHEM 4481** Independent Problems in Chemistry 1-4
- **CHEM 4482** Independent Problems in Chemistry 1-4

**Required Courses (2nd and 3rd years)**

- **CHEM 4481** Independent Problems in Chemistry 1-4
- **CHEM 4482** Independent Problems in Chemistry 1-4

**General Requirements (See the suggested schedule)**

During the first semester each student is expected to select three faculty members to serve as his/her advisory committee subject to the approval of the Department Chair. In the second semester, each student will form his/her planned program of study with the research advisor, write a research overview of the project, apply and be admitted to the Graduate School. The student is expected to begin his/her research no later than the beginning of the first summer session. Thereafter, individual sections of the research paper will be required as students progress through the program.

The student must apply to, and meet all criteria for, admission to the Graduate School prior to their fourth year. Continuation in the program requires that the student maintain a minimum GPA of 3.0 from date of admission and annual approval of his/her committee. It will be recommended that students who are not making adequate progress discontinue the program.

The student must complete a total of 150 credit hours. This corresponds to 120 credit hours for the BS degree and 30 credit hours for the MS degree. The final course selection must be approved by the student’s advisory committee. Students are required to have completed all general education requirements by the end of their second year in the combined BS/MS program. It is the intent that all students will finish within the period of 3 years after admission to the program. Successful completion of the program requires that the student write and defend a research paper embodying his/her research before his/her research committee.

**Suggested Schedule**

The following schedule will show how a typical student might progress through the BS/MS program. Even though courses are listed as suggested, each student is required to meet all course requirements in chemistry.

**Requirement exceptions**

- **CHEM 4481** Independent Problems in Chemistry 1-4
- **CHEM 4482** Independent Problems in Chemistry 1-4

**Required Courses (2nd and 3rd years)**

- **CHEM 6609** Advanced Inorganic Chemistry 3
- **CHEM 6630** Advanced Analytical Chemistry 3
- **CHEM 6655** Advanced Physical Chemistry 3
- **CHEM 6671** Advanced Organic Chemistry 3

**Third Year**

<table>
<thead>
<tr>
<th>Fall/Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3331 1</td>
<td>2</td>
<td>CHEM 6635</td>
<td>1-4</td>
</tr>
<tr>
<td>CHEM 3334 1</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 3351 1</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 3352 1</td>
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<td></td>
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</tr>
<tr>
<td>CHEM 3365 1</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 3366 1</td>
<td>2</td>
<td>MATH 2240</td>
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</tr>
<tr>
<td>MATH 3360</td>
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<td>Electives</td>
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**Fourth Year**

<table>
<thead>
<tr>
<th>Fall/Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
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<td>CHEM 6635</td>
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<tr>
<td>BIOL 5532</td>
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<td></td>
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</tr>
<tr>
<td>CHEM 5507</td>
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<td></td>
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</tr>
<tr>
<td>CHEM 5553</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 4485</td>
<td>2</td>
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</tr>
</tbody>
</table>
Master of Natural Science in Chemistry

The student must meet all criteria for admission to the Graduate School.

The Master of Natural Science (MNS) in Chemistry is designed primarily for teachers and prospective teachers who want to improve their understanding of the subject matter of chemistry. Emphasis is upon the subject matter and it is generally a non-thesis program. Individuals interested in this degree should hold a teaching certificate or be working towards one. The program of study will be determined in consultation with the student’s advisor and committee. The program requires a minimum of at least 30 credits, 22 of which must be taken in residence. A final oral examination is required.

Courses

CHEM 5500 Practicum in Physical Science: 2 semester hours.
Practical problems associated with equipping, setting up, and operating laboratories in chemistry. PREREQ: Permission of the instructor

CHEM 5507 Inorganic Chemistry II: 2 semester hours.
Structure and reactivity of inorganic compounds including coordination compounds; acid-base chemistry and nonaqueous solvent systems; organometallic chemistry and other special topics of current interest. PREREQ: CHEM 2211 and CHEM 3352 or permission of instructor

CHEM 5533 Environmental Chemistry: 2 semester hours.
This course applies chemical principles and calculation to investigate environmental issues. Natural systems, environmental degradation and protection, and the methodology of chemical detection and monitoring. COREQ: CHEM 5537. PREREQ: CHEM 2232 and CHEM 2234 or permission of instructor

CHEM 5537 Environmental Chemistry Laboratory: 1 semester hour.
This laboratory course utilizes both structured and self-designed field and classroom experiments to emphasize principles of environmental chemistry. COREQ: CHEM 5533 or permission of instructor

CHEM 5538 Experimental Biochemistry: 1 semester hour.
Laboratory course including both qualitative and quantitative experiments. Equivalent to BIOL 5537. PREREQ or COREQ: BIOL 5532 or BIOL/CHEM 5545

CHEM 5545 Biochemistry I: 3 semester hours.
Introduction to basic aspects of biochemical systems, including fundamental chemical and physical properties of biomolecules. Enzymology, including allosterism, metabolic regulation, bioenergetics, and carbohydrate metabolism. Equivalent to BIOL 5545. PREREQ: Introductory Biology and Organic Chemistry or permission of instructor

CHEM 5547 Biochemistry II: 3 semester hours.
Functional continuation of CHEM 5545. Lipid, amino acid, and nucleotide metabolism. Emphasis is on regulation of metabolism, metabolic dysfunctions, biochemical mechanisms of hormone action, biochemical genetics, protein synthesis, and metabolic consequences of genetic defects. Equivalent to BIOL 5547. PREREQ: BIOL/CHEM 5545

CHEM 5548 Advanced Experimental Biochemistry: 2 semester hours.
Advanced laboratory projects designed to emphasize techniques of qualitative and quantitative biochemical analysis. Equivalent to BIOL 5548. PREREQ: BIOL 5537/ CHEM 5538. COREQ: BIOL/CHEM 5547

CHEM 5553 Modern Experimental Physical Chemistry: 2 semester hours.
Magnetic, optical, and electrical properties of materials, calorimetry, voltammetry, optical and laser spectroscopic techniques. PREREQ: CHEM 3334 and CHEM 3352

Directed library and laboratory research. Courses may be repeated to a maximum of 6 credits. PREREQ: CHEM 3352

CHEM 5582 Independent Problems in Chemistry: 1-4 semester hour.
Directed library and laboratory research. Courses may be repeated to a maximum of 6 credits. PREREQ: CHEM 3352

CHEM 5591 Seminar: 1 semester hour.
A formal introduction to the chemical literature including electronic methods of literature searching. A detailed treatment of methods for presenting scientific seminars including a full-length student presentation on selected library or laboratory research. COREQ: CHEM 5581 or CHEM 5582 or CHEM 4485 or permission of instructor

CHEM 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. May be graded S/U

CHEM 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

CHEM 6601 Seminar: 1 semester hour.
Oral reports of current literature and research in chemistry. This course may be taken multiple times as determined by degree requirements. Graded S/U

CHEM 6609 Advanced Inorganic Chemistry: 3 semester hours.
Synthesis, reactions, spectroscopic characterization methods, and application of transition metal complexes. Foci will vary and may include metal carbon bond transformations, bioinorganic chemistry, or materials chemistry. PREREQ: CHEM 4407 or CHEM 5507 or permission of instructor

CHEM 6610 Special Topics in Chemistry: 1-3 semester hour.
Detailed consideration of a limited phase of chemistry; course content will vary with current demand and with the instructor; may be repeated with departmental approval for non-repetitive course content

CHEM 6615 Neutron Activation Analysis: 4 semester hours.
Theory and use of neutron activation methods for quantitative chemical analysis of natural and synthetic materials. Applications in geologic systems will be emphasized. Equivalent to GEOL 6615 and PHYS 6615. PREREQ: Permission of instructor

CHEM 6617 Environmental Geochemistry: 3 semester hours.
Geochemistry of environmental systems. Emphasis given to low-temperature water-rock interactions, including sorption processes, retardation, reaction kinetics and reaction-mass transport modeling. Equivalent to GEOL 6617. PREREQ: GEOL 5520 or CHEM 3351
CHEM 6621 Organic Reactions: 3 semester hours.
Advanced study of organic chemical reactions with emphasis on synthetic applications. PREREQ: CHEM 3302

CHEM 6625 Quantitative Geochemistry Lab: 3 semester hours.
Applications of instrumental methods for geochemical analysis. Equivalent to GEOL 6625

CHEM 6630 Advanced Analytical Chemistry: 3 semester hours.
Advanced treatment of standards, sampling, special methods of analysis, and methods of separation. PREREQ: CHEM 3302, CHEM 3304, CHEM 3334 and CHEM 3352 or permission of instructor

CHEM 6635 Masters Research: 2-6 semester hour.
A continuation of CHEM 4435 to improve ability of students to solve chemical problems independently and pursue research at an advanced level. 2-6 credits. May be repeated for up to 12 credits. PREREQ: CHEM 4485 or permission of instructor

CHEM 6640 Research Techniques in Chemistry: 2-6 semester hour.
Designed to improve the ability of students to solve chemical problems independently in the laboratory; special emphasis on development of manipulative skills, instrumental methods and supporting library research; nature of the projects dictated by students' needs; may be repeated with departmental approval for non-repetitive course content. Limit 12 credits

CHEM 6650 Thesis: 1-10 semester hour.
Thesis. 1-10 credits. May be repeated. Graded S/U

CHEM 6655 Advanced Physical Chemistry: 3 semester hours.
Introductory material from quantum chemistry and statistical mechanics with applications in chemical thermodynamics. PREREQ: CHEM 3302 and CHEM 3352 or permission of instructor

CHEM 6671 Advanced Organic Chemistry: 3 semester hours.
Kinetics and mechanisms in organic reactions. PREREQ: CHEM 3302 and CHEM 3352 or permission of instructor

CHEM 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

CHEM 8850 Doctoral Dissertation: 1-12 semester hour.
Research toward and completion of the dissertation. May be repeated. Graded S/U

Civil and Environmental Engineering

Chair and Associate Professor: Savage
Professors: Ebrahimpour, Leung, Sato
Assistant Professors: Sorenson
Senior Lecturer: Mahar

Master of Science in Civil Engineering

The master's program in civil engineering is designed to provide advanced study, both theoretically and experimentally, in structures, mechanics, finite element methods, water resources, and geotechnics. This program prepares the student for advanced placement in the civil engineering field in industry, research, or development areas. Additionally, this program provides a suitable base for entrance into a doctoral program in a field related to civil engineering. The program is offered both at the Pocatello and the Idaho Falls campuses, primarily through the use of telecommunications/distance learning, which includes partial in-class instruction.

Goals
• Enhance the knowledge of graduates in the advanced concepts of civil engineering fields such as structures, mechanics, finite element methods, geotechnics, and water resources.
• Increase the ability of graduates to synthesize and apply these advanced concepts to develop realistic designs in fields related to civil engineering and to solve identified problems, and design strategies for implementing them safely, ethically, and effectively.
• Enhance the ability of graduates to effectively communicate these concepts both in oral and written formats.

Master of Science in Environmental Engineering

This program is designed to provide the student with advanced technical training in environmental engineering, with an emphasis on hazardous waste treatment and control. The program fills a need in industry and government for professionals with a broad understanding of the technical aspects of environmental issues. Students enrolled in the program are generally expected to have a sufficient background in mathematics and chemistry (a minimum of one year of general chemistry). Students with an insufficient background in engineering and math are required to make up the deficiencies according to the advice of their advisory committee (usually includes ME 3307, CE 3332, CE/ME 3341)

Goals
• Enhance the knowledge of graduates in the advanced concepts of environmental control and remediation, involving a significant fraction of the following: chemistry, water & waste water quality, air quality, radioactive material handling and disposal, environmental laws and regulations, global environmental issues, and cost benefit analyses.
• Increase the ability of graduates to synthesize and apply these advanced concepts to develop realistic environmental engineering designs and to solve identified problems, designing strategies for implementing them safely, ethically, and effectively.
• Enhance the ability of graduates to communicate these concepts effectively both in oral and written formats.

Master of Science in Environmental Science and Management

The Environmental Science and Management (ENSM) Program is an interdisciplinary program designed to allow students to combine courses in environmental engineering with related courses in an interdisciplinary area of emphasis. Interdisciplinary course work may come from a combination of courses from the following emphasis areas: geosciences, biological sciences, chemistry, mathematics, physics, pharmaceutical sciences, political science, and business. Students may also choose environmental engineering as the academic emphasis; thus maintaining the entire program of study within the Department of Civil and Environmental Engineering. The ENSM program is jointly sponsored by the University of Idaho, and some of the courses are cross-listed. Students
must complete at least ten credits in an interdisciplinary discipline (academic emphasis) and satisfy all departmental and Graduate School requirements.

Admission Requirements
The student must meet all criteria for admission and then apply to the Graduate School.

General Requirements
With the assistance of the Civil Engineering faculty, the student shall select an initial advisor during the first semester of residence to help in planning a program of studies and research. The student must also complete a Plan of Study and form a complete advisory committee by the time six credits of course work have been completed.

30 to 33 credit hours are required to complete the M.S. degree (at least 50% of the credits should be at 6000 level). Approximately half of the credits are engineering and technical electives, subject to the approval of the student’s advisory committee. The Thesis or Special Project, should consist of study and research that complements the course work selected. Each student may also be required to complete two semesters of seminar, an important component in developing research and communication skills.

Doctor of Philosophy in Engineering and Applied Science
A doctoral program in Engineering and Applied Science, administered through the College of Science and Engineering, is available to Civil and Environmental Engineering students. The complete program description is provided elsewhere in the College of Science & Engineering section of the Graduate Catalog.

Master of Science in Civil Engineering
Thesis, Non-Thesis options
- **Thesis option (30 credits):** 15 credits from the approved list of courses, 9 credits of technical electives from the approved list of electives, and 6 credits of thesis.
- **Non-thesis option (33 credits):** 21 credits from the approved list of courses, 9 credits of electives from the approved list of electives, and 3 credits of Special Project in the related field and a written report. After completion of the course work and special project, students are required to take an oral exam on their special project, and other courses from the student’s approved M.S. program.

Note: For lists of approved courses and elective courses, student should see an advisor. The approved and elective courses may be changed with the approval of the advisor. (Web link to the approved courses: http://engr.isu.edu/gp/docs/course_listing.pdf).

Master of Science in Environmental Science and Management
Students entering the ENSM program are required to obtain interdisciplinary admission into the Department of Civil and Environmental Engineering and one other academic discipline (emphasis). Admission requirements vary between academic units, and there may be departmental requirements beyond those of the Department of Civil and Environmental Engineering which the student must fulfill to gain departmental admission. At least 30 credits are required for each degree, of which at least 15 must be at the 6600 level. At least 10 credits must be completed within the academic emphasis, with the remainder of the course work representing ENSM course work. No more than 9 credits may be transferred from another university, with the exception of courses from the University of Idaho, which will be accepted as resident credits. Students must have successfully completed course work equivalent to Idaho State University’s MATH 1160 and Idaho State University’s CHEM 1111 and CHEM 1112 with grades of “C” or better. Students with prerequisite course deficiencies may be admitted as Classified with Performance Requirements with the understanding that these requirements must be satisfied prior to graduation, and such efforts may not necessarily count toward graduation. Classified with Performance Requirements (w/PR) admission into the ENSM program is the prerogative of individual departments.

Thesis and non-thesis options are available for the ENSM degree. For the thesis option, a maximum of ten thesis credits may be counted toward the degree. For the non-thesis option, a maximum of three “Special Project” credits may be counted toward the degree. These credits may apply toward the requirement of 15 credits at the 6600 level. There are program-wide and department-specific requirements for the thesis and non-thesis options, and students must create a program of study in conjunction with their advisory committee. Students will register for thesis credits or nonthesis project credits in the home department of the thesis/project advisor. Some departments’ “Special Project” courses may have a different title and/or course number.

Within the framework of the basic degree requirements, an advisory committee is chosen to work with the student to create an individualized program of study. The advisory committee consists of two faculty advisors: one from the Department of Civil and Environmental Engineering (CEE), and one from the student’s other academic discipline (emphasis). The student’s major advisor provides direction to the student regarding all relevant aspects of the program. All courses selected for fulfillment of the program of study must be approved by the advisory committee. The initial program of study must be submitted to the ENSM program director no later than the second semester of enrollment. Changes in the initial program of study may only be made with the approval of the student’s advisory committee. The final program of study is submitted to the Graduate School for graduation clearance in accordance with Graduate School policy.

Required Courses
The following courses are required for every student receiving the M.S. degree in Environmental Science and Management.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVE 5510</td>
<td>Introduction to Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 6655</td>
<td>Environmental Topics Seminar 1</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 6650</td>
<td>Thesis 2</td>
<td>1-9</td>
</tr>
<tr>
<td>or ENGR 6660</td>
<td>Special Project</td>
<td></td>
</tr>
</tbody>
</table>

Note: For lists of approved courses and elective courses, student should see an advisor. The approved and elective courses may be changed with the approval of the advisor. (Web link to the approved courses: http://engr.isu.edu/gp/docs/course_listing.pdf).
Course must be completed two times in order to satisfy requirement. A student may select a seminar other than ENGR 6655 offered in his/her interdisciplinary discipline with approval of the advisory committee.

Students will register for thesis or non-thesis "Special Project" credits in the home department of the thesis/non-thesis project advisor. Some departments' "Special Project" courses may have a different title and/or course number.

In addition, the following courses are required for students choosing chemistry, environmental engineering or mathematics as the second academic emphasis. Course work in other emphasis areas will be selected from elective course work with the approval of the advisory committee.

### Chemistry Emphasis

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHEM 5533</td>
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<tr>
<td>CHEM 5537</td>
<td>Environmental Chemistry Lab</td>
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### Environmental Engineering Emphasis

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<tbody>
<tr>
<td>ENVE 5508</td>
<td>Water and Waste Water Quality</td>
<td>3</td>
</tr>
<tr>
<td>ENVE 5509</td>
<td>Water and Waste Water Lab</td>
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</tr>
<tr>
<td>ENVE 5504</td>
<td>Environmental Risk Assessment</td>
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### Mathematics Emphasis

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<th>Course</th>
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<tbody>
<tr>
<td>MATH 5521</td>
<td>Advanced Engineering Mathematics I</td>
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</tr>
<tr>
<td>MATH 5522</td>
<td>Advanced Engineering Mathematics II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5565</td>
<td>Partial Differential Equations</td>
<td>3</td>
</tr>
</tbody>
</table>

OR

- MATH 6664  Methods of Applied Mathematics  3
- MATH 6665  Methods of Applied Mathematics  3

### Elective Courses

Students will select a core of courses from the following list. (Students may select one or more courses not on this list, with the approval of the advisory committee, for the purpose of focusing students in a particular direction not covered by this abbreviated list.)

### Chemistry Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>CHEM 5507</td>
<td>Inorganic Chemistry II</td>
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<tr>
<td>CHEM 6601</td>
<td>Seminar</td>
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<tr>
<td>CHEM 6609</td>
<td>Advanced Inorganic Chemistry</td>
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<tr>
<td>CHEM 6630</td>
<td>Advanced Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 6621</td>
<td>Organic Reactions</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 6655</td>
<td>Advanced Physical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 6671</td>
<td>Advanced Organic Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

### Environmental Engineering Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVE 5508</td>
<td>Water and Waste Water Quality</td>
<td>3</td>
</tr>
<tr>
<td>ENVE 5509</td>
<td>Water and Waste Water Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENVE 5530</td>
<td>Air Pollution and Solid Waste</td>
<td>3</td>
</tr>
<tr>
<td>ENVE 6610</td>
<td>Introduction to Radioactive Waste Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVE 6611</td>
<td>Treatment Systems for Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ENVE 6615</td>
<td>Water Quality Modeling and Control</td>
<td>3</td>
</tr>
<tr>
<td>ENVE 6617</td>
<td>Environmental Systems Engineering and Design</td>
<td>3</td>
</tr>
<tr>
<td>ENVE 6629</td>
<td>Physical and Chemical Treatment of Water and Waste Water</td>
<td>3</td>
</tr>
</tbody>
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### Geosciences Electives

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>GEOL 5504</td>
<td>Advanced Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5506</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5509</td>
<td>Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5515</td>
<td>Quaternary Global Change</td>
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</tr>
<tr>
<td>GEOL 5516</td>
<td>Global Environmental Change</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5520</td>
<td>Principles of Geochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5530</td>
<td>Principles of Hydrogeology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5554</td>
<td>Basic Engineering Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5583</td>
<td>Earthquake Engineering</td>
<td>3</td>
</tr>
<tr>
<td>GEO 6602</td>
<td>Advanced Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEO 6608</td>
<td>Geostatistics Spatial Data Analysis and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEO 6617</td>
<td>Environmental Geochemistry</td>
<td>3</td>
</tr>
<tr>
<td>GEO 6625</td>
<td>Quantitative Geochemistry Lab</td>
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</tr>
<tr>
<td>GEO 6630</td>
<td>Advanced Hydrogeology</td>
<td>3</td>
</tr>
</tbody>
</table>

### Civil Engineering Courses

**CE 5506 Green and Sustainable Engineering: 3 semester hours.**

Study of green engineering and sustainability, topics focused on design of processes to advance sustainability, manufacturing and disposal alternatives, energy and material life-cycle assessment, and environmental law and related issues. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: CHEM 1111

**CE 5524 Open Channel Flow: 3 semester hours.**

Application of the principles of fluid mechanics to flow in open channels - natural and manmade. Topics include uniform flow, flow resistance, gradually varied flow, flow transitions, unsteady flow, and hydraulic structures (culverts, weirs, etc.) used in open channel control. Computer applications will be used in the analysis of open channel systems. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: CE 3341 or equivalent or permission of instructor

**CE 5525 Water Resources: 3 semester hours.**

Overview of the general field of water resources engineering. Course topics covered in other courses such as CE 3351, Engineering Hydrology, CE 4435/5535, Hydraulic Design, and CE 4424/5524, Open Channel Flow, will be limited. The course is structured to give students a background in the diverse field of water resources and help prepare them for future careers in water supply, wastewater, floodplain, stormwater and groundwater management. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

**CE 5531 Advanced Mechanics of Solids: 3 semester hours.**

An introduction to elasticity, plasticity, and energy foundations, stability, plates. PREREQ: ENGR 3350 and MATH 3360
CE 5534 Geotechnical Design: 3 semester hours.
Application of soil mechanics to design of foundations, retaining wall, stable slopes, buried conduits and pavement structures. Computer methods utilized. PREREQ: ENGR 3350 and CE 3332

CE 5535 Hydraulic Design: 3 semester hours.
Hydraulic design of water control and transport structures, pipelines, and distribution systems. Computer methods utilized. PREREQ: CE 3351

CE 5536 Transportation Engineering: 3 semester hours.
Fundamentals of earthwork, route location, drainage, and pavement materials with application to geometric and pavement design of highways, streets and rural roads. COREQ: CE 3332. PREREQ: ENGR 2224 and CE 3301

CE 5537 Geotechnical Engineering Laboratory: 1 semester hour.
Field and laboratory work on site investigation, soil sampling classification and testing. Evaluation of soil properties. Design of experiment. PREREQ: CE 3332

CE 5534 Basic Engineering Geology: 3 semester hours.
Geology applied to civil engineering projects rock engineering classification systems and geotechnical parameters such as joint set orientation ground behavior and underground construction. Preparation of baseline geotechnical reports. Equivalent to GEOL 5554. COREQ: CE 3332 or GEOL 3314

CE 5555 Geologic Data Methods: 3 semester hours.
Geotechnical investigations for civil works projects. Geologic mapping for civil engineering purposes. Development of engineering geologic profiles. Core logging. Preparation of Geotechnical Data Reports for civil works projects. Equivalent to GEOL 5555. PREREQ: CE 5554 or GE 4454

CE 5560 Project Management: 3 semester hours.
Knowledge, techniques and tools for management of civil, electrical, mechanical and environmental engineering projects and firms. Topics include contract organization/interpretation; project responsibility/authority; cost estimating; scheduling; quality control; construction safety; environmental requirements and project closeout. Examples from actual construction projects used as teaching aid. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: CE 3360 or CE 3361

CE 5561 Project Management: 3 semester hours.
Analysis of statically indeterminate structures. Continuation of the use of classical methods. Introduction to computer methods in structural analysis including the use of commercially available software, and lateral load effects. PREREQ: CE 3362

CE 5562 Design of Steel Structures: 3 semester hours.
Design of steel members and connections with emphasis on the AISC specifications. PREREQ: CE 3362

CE 5564 Design of Concrete Structures: 3 semester hours.
Design of reinforced concrete beams, columns, and slabs. Introduction to prestressing. PREREQ: CE 3362

CE 5565 Prestressed Concrete Structures: 3 semester hours.
Basic concepts in prestressed concrete design, full versus partial prestressing, flexural design, ultimate load design, beams with constant and variable tendon eccentricity, design of reinforcement for shear and torsion. PREREQ: CE 5564 or CE 4464

CE 5566 Design of Wood Structures: 3 semester hours.
Design of solid and laminated wood members and connections. Includes the design of wooden diaphragms for resisting lateral loads. PREREQ: CE 3362

CE 5567 Structural Engineering Laboratory: 1 semester hour.
Measurement of stresses and load distribution through concrete, steel and wood components and structures. Design of experiment. PREREQ: CE 3362

CE 5568 Behavior of Composite Materials: 3 semester hours.
Macro and micromechanical behavior of laminae and laminates bending, buckling and vibration of laminated beams and plates. Equivalent to ME 5568. PREREQ: ENGR 3350 and MATH 2240

CE 5575 Essentials of Geomechanics: 3 semester hours.
Essentials of rock fracture relevant to geological engineering including stress and strain, properties and classification of rock masses, rock fracture mechanisms. Equivalent to GEOL 5575. PREREQ: GEOL 4421 or ENGR 3350

CE 5576 Engineering Geology Project: 1 semester hour.
Team projects studying actual problems in engineering geology. Equivalent to GEOL 5576. PREREQ: GEOL 5554, GEOL 4454, CE 5554, or CE 4454

CE 5580 Earthquake Engineering: 3 semester hours.
Topics include: mechanism and characterization of earthquakes; seismic risk analysis; site and structural response; applications from points of view of engineer and geologist. Equivalent to GEOL 5583. PREREQ: GEOL 3313 or CE 3332, or permission of instructor

CE 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

CE 6626 Introduction to Computational Fluid Dynamics: 3 semester hours.
Introduction to the governing equations of fluid flow, their application to solve fluid flow problems and the traditional numerical methods used to solve the equations. Numerical methods will cover basic techniques in the solutions of parabolic, hyperbolic and elliptical type equations. In addition, students will be introduced to an industry Computational Fluid Dynamics (CFD) code. Application of the code and its limitations will be covered. PREREQ: CE/ME 3341 or equivalent

CE 6628 Hydraulics of Pipelines: 3 semester hours.
A study and application of the principles and procedures involved in the design and operation of pipeline systems. Topics include a feasibility assessment, economic analysis, design of pipe size/pressure class, cavitation, hydraulic transients and the selection of pumps and valves. Comprehensive design problems are used to demonstrate pipeline design and operational problems. PREREQ: CE/ME 3341 or equivalent

CE 6650 Thesis: 1-6 semester hour.
Thesis research must be approved by the student's advisory committee. Total of six credits are required to satisfy the research requirements for the degree. May be repeated. Graded S/U

CE 6652 Advanced Topics: 3 semester hours.
Advanced topics in Civil Engineering and related fields, depending upon the interest of students and faculty. May be repeated for credit when topics vary. PREREQ: Permission of instructor

CE 6660 Special Project: 1-3 semester hour.
A significant project, involving engineering applications, toward the completion of M.S. program with non-thesis option. Includes a report and oral examination. Total of three credits may be used to satisfy the degree requirement. May be repeated. Graded S/U

CE 6664 Dynamics of Structures: 3 semester hours.
Evaluation of response of structures subjected to dynamic forces including earthquake-induced forces and deformations. Applications include single- and multi-degree of freedom systems, and continuous systems. PREREQ: ME 4440 or ME 5540 or permission of instructor
CE 6665 Finite Element Methods: 3 semester hours.
Introduction to finite element methods applied to linear one- and two-dimensional problems. Application of the concept to specific problems in various fields of engineering and applied sciences. Equivalent to ME 6665. PREREQ: ENGR/CE/ME 3350 and MATH 3360

CE 6667 Structures and Mechanics Laboratory: 3 semester hours.
Strain gauge installation and circuitry. Strain measurements and analysis of variety of structural and mechanical systems. Dynamic measurements of various structures. PREREQ: CE 5531 or CE 4431 or permission of instructor

CE 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Research toward completion of the dissertation for Ph.D. in Engineering and Applied Science. Variable credits. May be repeated. Graded S/U

Env Engr Courses

ENVE 5504 Environmental Risk Assessment: 3 semester hours.
Quantitative and qualitative approaches to characterizing and controlling contaminant pathways. Risk assessment requirements and implications in superfund projects for engineers working on remediation. PREREQ: BIOL 5521 and ENGR 5501

ENVE 5508 Water and Waste Water Quality: 3 semester hours.
Principles of chemistry in applications to water and wastewater treatment systems for water quality control and reuse. COREQ: ENV 5509. PREREQ: CHEM 1111 or equivalent

ENVE 5509 Water and Waste Water Quality Lab: 1 semester hour.
Fundamental analytical procedures for measurement of water and wastewater quality. Introduction to materials and protocols associated with general environmental analytical techniques. COREQ: ENV 5508

ENVE 5510 Introduction to Environmental Engineering: 3 semester hours.
Introduction to physical, chemical, and biological principles of solid and hazardous waste management, water and waste water treatment, air pollution control, and national environmental regulation. PREREQ: ENV 5508, ENV 4408, or equivalent

ENVE 5530 Air Pollution and Solid Waste: 3 semester hours.
Sources, characteristics, regulations, and effects of air pollution and solid waste on environmental quality analysis and design of control systems, including the recovery of resources from solid waste. PREREQ: Permission of instructor

ENVE 5559 Environmental Engineering: 3 semester hours.
Principles and practices of radioactive waste storage, transportation and disposal. Evolution of government regulations and current solutions developed in response to the regulations. PREREQ: ENGR 5501

ENVE 6611 Treatment Systems for Environmental Engineering: 3 semester hours.
Fundamental principles and processes for physical, chemical, and biological treatment of wastes including mixing, flocculation, sedimentation, stripping, aeration, sorption and leaching. Some experiments required. PREREQ: ENVE 5510 or ENVE 4410

ENVE 6615 Water Quality Modeling and Control: 3 semester hours.
Fundamental principles for mathematical modeling and analysis of environmental contaminant's fate and transport in lakes, rivers, estuaries, and groundwater. PREREQ: ENV 5510 or ENVE 4410

ENVE 6616 Biological Treatment of Wastewater: 3 semester hours.
Fundamental principles, design, and operation of aerobic and anaerobic biological waste treatment processes. PREREQ: ENV 5510 or ENVE 4410

ENVE 6617 Environmental Systems Engineering and Design: 3 semester hours.
Application of physical, chemical, and biological operations and processes to the design of water, waste water, and industrial waste treatment systems. PREREQ: ENV 5510, ENV 4410 or previous design experience

ENVE 6629 Physical and Chemical Treatment of Water and Waste Water: 3 semester hours.
Fundamental principles, design and operations of physical and chemical water and waste water treatment processes. Removal of hazardous materials emphasized. PREREQ: ENV 5510 or ENVE 4410

ENVE 6630 Air Pollution and Control: 3 semester hours.
An introductory air pollution course. Regulations, atmospheric dispersion models, control of emissions and sources and human health effects are emphasized. PREREQ: ENV 5510 or ENVE 4410

ENVE 6650 Thesis: 1-6 semester hour.
Thesis research must be approved by the student's advisory committee. Total of six credits are required to satisfy the research requirements for the degree. May be repeated. Graded S/U

ENVE 6652 Advanced Topics: 3 semester hours.
Advanced topics in Environmental Engineering and related fields, depending upon the interest of students and faculty. May be repeated for credit when topics vary. PREREQ: Permission of instructor

ENVE 6660 Special Project: 1-3 semester hour.
A significant project, involving engineering applications, toward the completion of M.S. program with non-thesis options. Includes a report and oral examination. Total of three credits may be used to satisfy the degree requirement. May be repeated. Graded S/U

ENVE 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

Research toward completion of the dissertation for Ph.D. in Engineering and Applied Science. Variable credits. May be repeated. Graded S/U
Master of Science in Measurement and Control Engineering

The master’s degree program in Measurement and Control Engineering is designed to provide advanced study (analytically, computationally, and experimentally) in measurements, modeling, simulation, robotics, and adaptive, intelligent, nonlinear, optimal, and robust control. This program prepares the student for advanced placement in the measurement and control engineering field in industry, research, or development areas. Additionally, this program provides a suitable base for entrance into a doctoral program in a field related to electrical or mechanical engineering. The program is offered both at the Pocatello and the Idaho Falls campuses, primarily through the use of telecommunications/distance learning, which includes partial in-class instruction.

Goals

• Enhance the knowledge of graduates in advanced concepts of measurement, control, signal processing, engineering mathematics, computation and other related areas.
• Increase the ability of graduates to synthesize and apply these advanced concepts to develop realistic measurement and control engineering designs and to solve identified problems, designing strategies for implementing them safely, ethically, and effectively.
• Enhance the ability of graduates to effectively communicate these concepts both in oral and written formats.

Master of Science in Measurement and Control Engineering

Program Director: Ken Bosworth

Admission Requirements

The student must meet all criteria for admission and then apply to the Graduate School. In addition, official Graduate School record Examination (GRE) score reports are required for all applicants, with a score in the upper 50th percentile on the Quantitative Reasoning area being required for admission.

General Requirements

With the assistance of the Mechanical Engineering and/or Electrical Engineering faculty, the student shall select an initial advisor during the first semester of residence to help in planning a program of studies and research. The student must also complete a Plan of Study and form a complete advisory committee by the time six credits of course work have been completed.

30 to 33 credit hours are required to complete the M.S. degree (at least 50% of the credits should be at the 6600 level). Approximately half of the credits are engineering and technical electives, subject to the approval of the student’s advisory committee. The Thesis or Special Project should consist of study and research that complements the course work selected. Each student may also be required to complete two semesters of seminar, an important component in developing research and communication skills.

Required Courses (30 credits)

The following courses are required of every student receiving the master’s degree in Measurement and Control Engineering covered by the abbreviated list.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 5521</td>
<td>Advanced Engineering Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MCE 6642</td>
<td>Advanced Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>MCE 6643</td>
<td>Advanced Measurement Methods</td>
<td>3</td>
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<tr>
<td>Approved Engineering Electives</td>
<td>6</td>
<td></td>
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<tr>
<td>Approved Technical Electives</td>
<td>9</td>
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</table>

Doctor of Philosophy in Engineering and Applied Science

A doctoral program in Engineering and Applied Science, administered through the College of Science and Engineering, is available to Engineering students. The complete program description is provided elsewhere in the College of Science & Engineering section of the Graduate Catalog.

Electrical Engr Courses

EE 5513 Techniques of Computer-Aided Circuit Analysis and Design: 3 semester hours.
Automatic formulation of equations and fundamental programming techniques pertinent to computer-aided circuit analysis, design, modeling. May include sensitivity calculations, system analogies, optimization. PREREQ: EE 3340 and EE 3342

EE 5516 Applied Engineering Methods: 3 semester hours.
Applied discrete and continuous probability, random variables, probability distributions, sampling, data description, parameter estimation, hypothesis testing, inference, correlation and linear and multiple regression. P

EE 5517 Probabilistic Signals and Systems: 3 semester hours.

EE 5518 Communication Systems: 3 semester hours.
Basic principles of analysis and design of modern analog and digital communication systems, including transmission and reception. PREREQ: EE 3329 and EE 3345

EE 5525 Mechatronics: 3 semester hours.
Basic kinematics, sensors, actuators, measurements, electronics, microprocessors, programmable logic controllers, feedback control, robotics and intelligent manufacturing. Equivalent to ME 5525. PREREQ: MATH 3360, EE 3342, and EE 3340

EE 5526 Computer Architecture and Organization: 3 semester hours.
Design, implementation, and performance evaluation of modern computer systems; instruction sets; datapath and control optimizations; single-cycle, multiple-cycle, and pipelined processors; hazard detection and resolution; memory hierarchies; peripheral devices. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: EE 2274 and EE 2275 or equivalent

EE 5527 Embedded Systems Engineering: 2 semester hours.
Integration of algorithms, software and hardware to design real-time and embedded systems for signal processing and control. PREREQ: CS 4475 or CS 5575. COREQ: EE 5572L
EE 5527L Embedded Systems Engineering Laboratory: 1 semester hour. Lab activities include the complete process of design and implementation of embedded signal processing and control systems through the integration of algorithms, software, and hardware. COREQ: EE 5527

EE 5529 Advanced Electronics: 2 semester hours. Introduction to operational amplifiers and their applications, current mirrors, active loads, differential amplifiers, feedback and stability, filters, oscillators, Schmitt triggers, power amplifiers and voltage regulators. COREQ: EE 5529L. PREREQ: EE 3329 and EE 3345

EE 5529L Advanced Electronics Laboratory: 1 semester hour. Laboratory course emphasizing transistor biasing, amplifiers and other basic analog circuit designs. COREQ: EE 5529

EE 5532 Introduction to VLSI Design: 3 semester hours. Photolithography, CMOS fabrication, MOSFET operation, CMOS passive elements, design rules and layout, CAD tools for IC design, invertors, static logic and transmission gates, dynamic logic. PREREQ: EE 3329

EE 5533 Mixed Signal Design: 3 semester hours. Analog IC design. Passive components, parasitic elements, component matching, IC layout techniques, amplifiers, current sources, comparators, op amps, noise, switched capacitor circuits. Includes lab work using design tools. PREREQ: EE 4432 or EE 5532

EE 5572 Electrical Machines and Power: 3 semester hours. Theory and application of electrical machinery and transformers. Power and energy relationships in power systems. Includes 1 credit lab component. COREQ: EE 5572L. PREREQ: EE 3340, EE 3342, and MATH 3360

EE 5572L Electrical Machines and Power Laboratory: 1 semester hour. Laboratory course emphasizing an experimental study of the fundamental physical phenomena and characteristics of transformers, induction motors, synchronous and direct current machines. COREQ: EE 5572

EE 5573 Automatic Control Systems: 3 semester hours. Study of continuous-time and control systems using both frequency-domain and state-space techniques; topics include design methodology, performance specifications, analysis and design techniques. PREREQ: EE 3345, ME 5505 or ME 4405

EE 5574 Advanced Circuit Theory: 3 semester hours. Methods of analog electrical circuit analysis and synthesis. Topics include signal flow graphs, multi-port networks, simulation techniques, and topological methods for formulation of network equations. PREREQ: EE 3340

EE 5575 Digital Signal Processing: 3 semester hours. Discrete, fast Fourier and Z-transforms, correlation, convolution, finite and infinite impulse response digital filter design, spectral analysis and adaptive digital filters. COREQ: EE 4484 or EE 5584. PREREQ: EE 3345

EE 5576 Semiconductor Processing and Fabrication: 3 semester hours. Silicon semiconductor processing and basic integrated circuit fabrication. Physics, chemistry, and technology in basic processing steps in production of integrated circuits. PREREQ: PHYS 2211, PHYS 2212, and MATH 1170 or equivalent

EE 5578 Semiconductor Devices: 3 semester hours. Operating principles of basic building blocks of modern silicon-based semiconductor devices to include p-n junctions, field effect transistors and bipolar junction transistors. PREREQ: PHYS 2212 or equivalent

EE 5579 Advanced Semiconductor Devices: 3 semester hours. Review of semiconductor band theory. Opto-electronics, quantum mechanics, hetero junctions, power and microwave semiconductor devices. PREREQ: EE 5578 or equivalent

EE 5582 Principles of Power Electronics: 3 semester hours. Introduction to steady state converter modeling and analysis. Principles of converter dynamics and control including controller design. COREQ: EE 5573. PREREQ: EE 3329

EE 5584 Signal Processing Laboratory: 1 semester hour. Design finite and infinite response digital filters in digital signal processing system applications. COREQ: EE 5575

EE 5592 Digital Control Systems: 3 semester hours. Design of advanced control algorithms topics include: observers and state estimation, linear quadratic regulator, frequency-domain techniques for robust control, and an introduction to multivariable and nonlinear control. PREREQ: EE 5573 or EE 4473

EE 5599 Experimental Course: 1-6 semester hour. This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

EE 6699 Experimental Course: 1-6 semester hour. This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated


Measurement/Control Engr Courses

MCE 5599 Experimental Course: 1-6 semester hour. This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

MCE 6640 System Modeling Identification and Simulation: 3 semester hours. Model development, off-line and on-line identification methods for engineering systems, diagnostic tests and model validation and analog and digital simulation methods. PREREQ: ME/EE 5573 or equivalent

MCE 6642 Advanced Control Systems: 3 semester hours. State space analysis and design to include stability, controllability, observability, realizations, state feedback and estimation. PREREQ: EE 5573 or EE 4473

MCE 6643 Advanced Measurement Methods: 3 semester hours. Instrumentation systems used in detection and signal conditioning of thermal-hydraulic process variables, radiation including lasers, and electrical and mechanical properties of materials. PREREQ: ME 5505 or ME 4405

MCE 6644 Measurements and Controls Laboratory: 3 semester hours. Work with measuring systems for a variety of process variables. Investigation of characteristics of various process control components and systems. Transient and stationary conditions will be included. PREREQ: MCE 6642 and MCE 6643

MCE 6645 Advanced Control Theory and Applications: 3 semester hours. Topics selected from advanced control theory and applications, depending upon the interest of students and faculty. May be repeated for credit when topics vary. PREREQ: MCE 6642 or permission of instructor

MCE 6646 Intelligent Control Systems: 4 semester hours. Analysis and design of systems using intelligent techniques such as neural networks, fuzzy logic, genetic algorithms, and artificial intelligence. PREREQ: Permission of instructor
**Engineering and Applied Science**

**Doctor of Philosophy in Engineering and Applied Science**

This interdisciplinary Ph.D. program is open to students in the Departments of Civil and Environmental Engineering, Electrical Engineering, Mechanical Engineering, Anthropology, Chemistry, Geosciences, Mathematics, and Physics. The program allows for a broad range of research topics in Engineering (Civil Engineering, Electrical Engineering, Environmental Engineering, Environmental Science and Management, Measurement and Control Engineering, and Mechanical Engineering), Anthropology, Chemistry (Biochemistry, Atmospheric, Environmental, Materials, Inorganic, Organic, Organometallic, and Physical Chemistry), Geosciences (Geology, Geochemistry, Environmental Geosciences), Mathematics (Applied Mathematics and Computational Mathematics), and Physics (Radiation Science, Accelerator Applications, and Applied Nuclear Physics).

**Goals**

- Prepare graduates to conduct and disseminate independent scholarly research.
- Prepare graduates for careers in academia, government, or industry.

**Objectives**

- Increase the knowledge of graduates in their specialized field: Anthropology, Chemistry, Engineering (all disciplines), Geosciences, Mathematics, and Physics.
- Enhance the ability of graduates to contribute to their chosen field.
- Enhance effective written and oral communication skills of graduates.

**Admission Requirements**

All applicants must meet Idaho State University Graduate School admission requirements for doctoral programs. Additionally, applicants must have attained a master’s degree in engineering, physics, chemistry, geosciences, mathematics, or a closely related field. Applicants must submit a one-page statement of research interests, a one-page statement of career interests, a resume, and at least 3 letters of reference along with their application. The approval of the chair of major department is required for admission. In some special cases, a student with an exceptional undergraduate academic record and aptitude for research but without an M.S. degree may be directly admitted to the Ph.D. program with the approval of the Department Chair of the student’s parent department.

**General Requirements**

The Ph.D. degree requires completion of at least 84 credits consisting of 30 credits for the M.S. degree, 18 credits of additional course work (at least 50% of the credits should be at 6000 level), 1-4 credits of graduate seminar and 32-35 credits of dissertation research. Additional dissertation research credits may be required by the student’s dissertation committee.

**Program of Study**

An advisory committee consisting of Idaho State University graduate faculty (a minimum of 2 from the student’s parent department and 1 from another relevant department) will be formed for each student upon entry into the program. The committee will guide the student in establishing his or her program of course work and laboratory study based upon the student’s background and research interest. The advisory committee has the responsibility of ensuring that the student has adequate knowledge to support research in his or her chosen area of interest.

At the end of 18 credits of course work, the student will take an 8-hour written, comprehensive qualifying examination covering relevant information within the scope of the chosen research area. A student taking the comprehensive qualifying exam must be prepared to take an oral examination conducted by the student’s Advisory Committee. The oral exam will focus primarily on material in the written exam that was not adequately answered. However, the Advisory Committee, at its discretion, may excuse a student from taking the oral examination if the student excels in the written examination. The student will be allowed two attempts to pass the comprehensive qualifying examination, and the second attempt must be within one-half year after the first attempt. The student...
will be admitted to candidacy only upon passing the comprehensive qualifying examination.

A Dissertation Committee is formed with a minimum of 5 members consisting of a major professor, 2 members from the student’s parent department, a member from another relevant department, and a Graduate Faculty Representative (GFR). The major professor chairs the dissertation committee. Within six months of passing the comprehensive qualifying examination, the candidate, with guidance from the major professor, will satisfactorily complete an oral presentation and defense of a proposal for dissertation research to the Dissertation Committee. The research and dissertation preparation must be conducted under the close supervision of the committee and must include at least one full year of work performed under Idaho State University graduate faculty. The candidate can submit the final dissertation any time after six months from the date of acceptance of the research proposal if the candidate meets the requirement of one full year of work.

Dissertation approval requires a public presentation of the dissertation and a satisfactory oral defense to the Dissertation Committee. Doctoral oral examinations are open to all regular members of the faculty as observers. Further, oral presentations are open to the public until questioning by the Dissertation Committee begins.

### Mechanical Engineering

**Chair and Professor:** Williams

**Professor:** Bosworth, Schoen

**Associate Professors:** Perez, Wabrek

**Assistant Professor:** Sebastian

**Senior Lecturer:** Hofle

### Master of Science in Measurement and Control Engineering

The master’s degree program in Measurement and Control Engineering is designed to provide advanced study (analytically, computationally, and experimentally) in measurements, modeling, simulation, robotics, and adaptive, intelligent, nonlinear, optimal, and robust control. This program prepares the student for advanced placement in the measurement and control engineering field in industry, research, or development areas. Additionally, this program provides a suitable base for entrance into a doctoral program in a field related to electrical or mechanical engineering. The program is offered both at the Pocatello and the Idaho Falls campuses, primarily through the use of telecommunications/distance learning, which includes partial in-class instruction.

#### Goals

- Enhance the knowledge of graduates in advanced concepts of thermodynamics, fluids, heat transfer, energy systems, vibrations, engineering mechanics, measurements, and engineering mathematics.
- Increase the ability of graduates to synthesize and apply these advanced concepts to develop realistic mechanical engineering designs implementing them safely, ethically, and effectively.
- Enhance the ability of graduates to effectively communicate these concepts both in oral and written formats.

### Master of Science in Measurement and Control Engineering

**Program Director:** Ken Bosworth

#### Admission Requirements

The student must meet all criteria for admission and then apply to the Graduate School. In addition, official Graduate School record Examination (GRE) score reports are required for all applicants, with a score in the upper 50th percentile on the Quantitative Reasoning area being required for admission.

#### General Requirements

With the assistance of the Mechanical Engineering and/or Electrical Engineering faculty, the student shall select an initial advisor during the first semester of residence to help in planning a program of studies and research. The student must also complete a Plan of Study and form a complete advisory committee by the time six credits of course work have been completed.

30 to 33 credit hours are required to complete the M.S. degree (at least 50% of the credits should be at the 6000 level). Approximately half of the credits are engineering and technical electives, subject to the approval of the student’s advisory committee. The Thesis or Special Project should consist of study and research that complements the course work selected. Each student may also be required to complete two semesters of seminar, an important component in developing research and communication skills.

#### Required Courses (30 credits)

The following courses are required of every student receiving the master’s degree in Measurement and Control Engineering covered by the abbreviated list.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 5521</td>
<td>Advanced Engineering Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MCE 6642</td>
<td>Advanced Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>MCE 6643</td>
<td>Advanced Measurement Methods</td>
<td>3</td>
</tr>
<tr>
<td>Approved Engineering Electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Approved Technical Electives</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>
ENGR 6650 Thesis 6
OR
One additional elective course
AND
ME 6660 Special Project 1

1 Students desiring to do the non-thesis option must have a minimum of two years industry experience. In place of the 6-credit thesis, the non-thesis option consists of a 3-credit Special Project in addition to a 3-credit course. At the completion of the Special Project, the student will be required to present an oral presentation/defense of the Project.

Master of Science in Mechanical Engineering
Program Director: Alba Perez Gracia

Admission Requirements
All applicants for the MS in ME program must have a Bachelor of Science degree in engineering, physical sciences, mathematics or a closely related field, and must meet Idaho State University Graduate School MS admission requirements. In addition, official Graduate Record Examination (GRE) score reports are required for all applicants, except those with a BS degree in an Engineering discipline from ISU, with a score in the upper 50th percentile on the Quantitative Reasoning area being required for admission.

General Requirements
With the assistance of the Mechanical Engineering faculty, the student shall select an initial advisor during the first semester of residence to help in planning a program of studies and research. The student must also complete a Plan of Study and form a complete advisory committee by the time six credits of course work have been completed.

30 to 33 credit hours are required to complete the M.S. degree (at least 50% of the credits should be at the 6600 level). Approximately half of the credits are engineering and technical electives, subject to the approval of the student’s advisory committee. The Thesis or Special Project should consist of study and research that complements the course work selected. Each student may also be required to complete two semesters of seminar, an important component in developing research and communication skills.

Required Courses (30 credits)
Select at least 3 credits (1 course) of advanced mathematics from the following list:
- MATH 5506 Advanced Linear Algebra
- MATH 5521 Advanced Engineering Mathematics I
- MATH 5522 Advanced Engineering Mathematics II
- MATH 5542 Introduction to Numerical Analysis
- MATH 5565 Partial Differential Equations
Select at least 9 credits (3 courses) from the following list:
- ME 6607 Advanced Thermodynamics
- ME 6635 Transport Phenomena
- ME 6670 Conduction Heat Transfer
- ME 6640 Advanced Vibrations
- MCE 6643 Advanced Measurement Methods
- ME 6644 Advanced Kinematic Design
- ME 6648 Robotic Grasping/Manipulation
- ME/CE 6665 Finite Element Methods

Additional coursework, up to 12 credits (4 courses) of approved electives 12
1 ME 6650 Thesis
OR
One additional elective course
AND
ME 6660 Special Project 2

2 Approved by Major Advisor.

1 Students desiring to do the non-thesis option must have a minimum of two years of industry experience, or a previous graduate degree (MS or PhD) in an engineering discipline that included the completion of a thesis or dissertation. In place of the 6-credit thesis, the non-thesis option consists of a 3-credit Special Project in addition to a 3-credit course. At the completion of the Special Project, the student will be required to do an oral presentation/defense of the Project.

Doctor of Philosophy in Engineering and Applied Science
A doctoral program in Engineering and Applied Science, administered through the College of Science and Engineering, is available to Engineering students. The complete program description is provided elsewhere in the College of Science & Engineering section of the Graduate Catalog.

Courses
ME 5505 Measurement Systems Design: 3 semester hours.
Introduction to instrumentation systems analysis and design, including: statistical analysis, system modeling, actuators, transducers, sensor systems, signal transmission, data acquisition, and signal conditioning. PREREQ: EE 3340, EE 3342, and MATH 3360

ME 5506 Measurement Systems Laboratory: 1 semester hour.
Principles of measurement, measurement standards and accuracy, detectors and transducers, digital data acquisition principles, signal conditioning systems and readout devices, statistical concepts in measurement, experimental investigation of engineering systems. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: MATH 3360 and EE 2240

ME 5515 Model Theory: 3 semester hours.
Theory of design and testing of scaled system models. Dimensional analysis with application to physical models. True and distorted models, linear and non-linear models, and analogies. Laboratory work required. PREPREQ: ME 3341 and CE/ME 3350

ME 5525 Mechatronics: 3 semester hours.
Basic kinematics, sensors, actuators, measurements, electronics, microprocessors, programmable logic controllers, feedback control, robotics and intelligent manufacturing. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. Equivalent to EE 5525. PREREQ: ME 4473 or EE 4473; and MATH 3360

ME 5540 Vibration Analysis: 3 semester hours.
Free vibration and forced response of single and multiple degree of freedom systems, normal modes, random vibrations, discrete, lumped mass, and continuous systems. Vibration control techniques. PREREQ: MATH 3360. PRE- OR-COREQ: ME 3323
**Nuclear Engineering and Health Physics**

Interim Chair and Associate Professor: Dunzik-Gougar

Professors: Brey, Imel

Associate Professors: Burgett, Harris, Pope

**Doctor of Philosophy in Nuclear Science and Engineering**

This program combines the atomic nuclear aspects of engineering and science. Research areas range from the more traditional nuclear engineering disciplines (reactor physics, thermal hydraulics, and reactor design) to cross-discipline topics in the fields of radiation detection and measurement, nuclear fuels, and materials development, nuclear fuel cycle systems studies and radioactive waste management.

**Objectives**

- Increase the knowledge of graduates in their specialized field: chemistry, engineering (all disciplines), geosciences, mathematics, and physics.
- Enhance the ability of graduates to contribute to their chosen field.
- Enhance effective written and oral communication skills of graduates.

**Master of Science in Nuclear Science and Engineering**

The master’s degree program in Nuclear Science and Engineering prepares the student for advanced placement in the nuclear industry in commercial, research, or development areas. It provides in-depth studies and advanced design concepts in several areas of modern nuclear science and engineering. It is also an excellent program of study for entering the doctoral program in Nuclear Science and Engineering.

**Objectives**

- Enhance the knowledge of graduates in the physics and engineering of nuclear reactors, the nuclear fuel cycle, and other aspects of the study of...
nuclear engineering. At Idaho State University, while our emphasis is on advanced reactors and the science and technology of nuclear fuel recycling, we allow the flexibility to build programs on other aspects, which can include systems studies and simulations including policy aspects, radiation shielding and detection, medical applications of radiation, and the economics and safety of all of these applications.

- Increase the ability of graduates to synthesize and apply these advanced concepts to develop realistic nuclear engineering designs and to solve identified problems, designing strategies for implementing them safely, ethically, and effectively.
- Enhance the ability of graduates to effectively communicate these concepts both in oral and written formats.

Certificate Program in Applied Nuclear Energy

This program provides bachelor's degree graduates who do not have recent experience or education in the nuclear energy field with historical insights, information on basic concepts, regulatory requirements, and economic and environmental considerations. This program is not intended to lead to a master's or doctoral program in the areas of Nuclear Science and Engineering. The Certificate is granted upon completion of fourteen (14) credit hours of class work, consisting of nine credit hours of required courses, a three-credit elective course and participation in two semesters of a one-credit graduate seminar. Up to six credits of appropriate graduate course work taken at another university may be applied toward the certificate program subject to approval by the student's certificate committee. With appropriate pre-planning, some of these credits could be applied to a master's degree.

Master of Science in Health Physics

The Department of Nuclear Engineering and Health Physics additionally offers the master's option in Health Physics. Health Physics, an applied science, is concerned with the protection of humans and their environment from the possible harmful effects of radiation while providing for its beneficial uses. It is a multi-disciplined profession that incorporates aspects of both the physical and biological sciences. The master's program in Health Physics is accredited by the Applied Sciences Accreditation Commission of ABET, http://www.abet.org. The Idaho State University Health Physics programmatic educational objectives have been developed in close collaboration of faculty and the Idaho State University Health Physics Program Advisory Board.

The educational objectives of the ISU Health Physics program are to produce health physicists with

1. broad, fundamental technical knowledge;
2. written and verbal communication skills;
3. professional judgment and capability to think critically;
4. practical experience in solving applied health physics problems;
5. the ability to work independently;
6. a professional ethic of magnitude sufficient for them to productively and successfully work in a variety of health physics settings.

The graduate program has two additional educational objectives:

1. An ability to conduct research;
2. Professional tools and experience above that expected for the baccalaureate program.

The ISU Health Physics Program is in a state of transition from the Department of Physics to the newly named Department of Nuclear Engineering and Health Physics. This process of moving programs and realigning degree titles is also ongoing. Currently students earn a degree in physics with an emphasis in health physics. This degree is being transitioned to a Masters of Science in Health Physics. Students interested in health physics at this time must apply to the Department of Physics master's program but indicate on their application their interest in health physics.

Students may enter the master's program in health physics from several undergraduate majors including health physics, physics, chemistry, biology, and other science or engineering majors. Additional course work to correct deficiencies may be necessary.

Doctor of Philosophy in Nuclear Science and Engineering

Admission Requirements

All applicants must meet Idaho State University Graduate School admission requirements for doctoral programs. Additionally, applicants must have attained a master's degree in engineering, physics, chemistry, geosciences, mathematics, or a closely related field. Applicants must submit a one-page (only) statement of research interests, a one-page (only) statement of career interests, a resume, and at least 3 letters of reference along with their applications. In some special cases, a student with exceptional undergraduate academic record and aptitude for research but without an M.S. degree may be directly admitted to the Ph.D. program with the approval of the Ph.D. program committee.

General Requirements

The doctoral degree requires completion of at least 84 credits consisting of 30 credits for the master's degree, 18 credits of additional course work (at least 50% of the credits should be at 6000 level), 4 credits of graduate seminar and 32 credits of dissertation research. Six credits of core courses are required for each emphasis area. At least 9 of the 18 credits of course work must be in collateral areas as designated by the student's advisor. Additional dissertation research credits may be required by the student's dissertation committee.

Program of Study

An advisory committee consisting of Idaho State University graduate faculty (a minimum of 2 from the student's parent department and 1 from other relevant department) will be formed for each student upon entry into the program. The committee will guide the student in establishing his or her program of course work and laboratory study based upon the student's background and research interest. The advisory committee has the responsibility of ensuring that the student has adequate knowledge to support research in his or her chosen area of interest.

At the end of the first year, the student will take an 8-hour written, comprehensive qualifying examination covering the relevant information within the scope of the research area. A student taking the comprehensive qualifying exam needs to be prepared to take an oral examination conducted by the student's advisory committee. The oral exam needs to focus primarily on material in the written exam that was not adequately answered. However, the advisory committee, at its discretion, may excuse a student from taking the oral examination if the student excels in the written examination. The student will be allowed two attempts to pass the comprehensive examination, and the second attempt must be within one-half year after the first attempt. The student will be admitted to candidacy upon passing the comprehensive qualifying examination.

A dissertation committee is formed with a minimum of 5 members consisting of a major professor, 2 members from the student's parent department, a member from other relevant department, and GFR. The major professor chairs the dissertation committee. Within six months of passing the comprehensive qualifying examination, the candidate, with guidance from the major professor, will satisfactorily complete an oral presentation and defense of a proposal for
dissertation research to the dissertation committee. The research and dissertation preparation must be conducted under the close supervision of the committee and must include at least one full year of work performed under Idaho State University graduate faculty. The candidate can submit the final dissertation anytime after six months from the date of acceptance of the research proposal.

Dissertation approval requires a public presentation of the dissertation and a satisfactory oral defense to the dissertation committee. Doctoral oral examinations are open to all regular members of the faculty as observers. Further, oral presentations are open to the public until questioning by the dissertation committee begins.

Master of Science in Nuclear Science and Engineering

Required Courses
Select four of the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NE 5521</td>
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<tr>
<td>PHYS 6602</td>
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<tr>
<td>NE 5545</td>
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<td>NE 5546</td>
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<td>NSEN 6617</td>
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<td>6684/6685</td>
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<td>NSEN 6601</td>
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<td>NSEN 6608</td>
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<td>NSEN 6609</td>
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<td>NSEN 6618</td>
<td></td>
</tr>
<tr>
<td>NSEN 6619</td>
<td></td>
</tr>
<tr>
<td>Credits of Engineering or Physics courses approved by the major advisor.</td>
<td>12</td>
</tr>
</tbody>
</table>

Thesis

ENGR 6650 Thesis (6 credits total) 1-9

Seminar

ENGR 6651 Seminar (2 credits total) 1

Certificate Program in Applied Nuclear Energy

Admission Requirements

The student must apply to, and meet all criteria for admission to the Graduate School. GRE scores are not required if an earned grade point average of at least 3.0 or higher is required for all upper division credits taken at the undergraduate level, regardless of the institution at which the credits were earned.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSEN 6615</td>
<td></td>
</tr>
<tr>
<td>NSEN 6617</td>
<td></td>
</tr>
<tr>
<td>ENGR 6651</td>
<td></td>
</tr>
</tbody>
</table>

Electives

Select one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 6606</td>
<td></td>
</tr>
<tr>
<td>HPHY 6610</td>
<td></td>
</tr>
<tr>
<td>NSEN 6618</td>
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<tr>
<td>NSEN 6619</td>
<td></td>
</tr>
<tr>
<td>Approved NE, NSEN, ENGR, ENVE or PHYS 55xx/66xx elective course.</td>
<td></td>
</tr>
</tbody>
</table>

Master of Science in Health Physics

Admission Requirements

For admission, the student must apply to, and meet all criteria for, admission to the Graduate School, including a baccalaureate degree in a physical or biological science or engineering.

General Requirements

The basic program requirements are 33 credits, of which 15 credits must be at the 6600-course level. Six of the eighteen required credits may be thesis. The normal core program is listed below. Students who are prepared with some education and experience in health physics will likely not need all of the elective health physics courses. Therefore, the student’s program will be determined in consultation with the student’s advisor and committee and can include electives to meet his/her needs. An oral examination in defense of the thesis is required for the thesis option.

Thesis Option in Engineering Master’s Programs

All students entering with less than two years of industrial experience as determined by Engineering are required to complete six credits of thesis in their related field. Students who are planning to continue their education beyond the master level are strongly encouraged to choose this option. After the completion of the course work and the thesis, an oral defense of the thesis will be required. No more than six credits of Thesis will be allowed on the student’s final Program of Study.

ENGR 6650 Thesis 1-9

Non-Thesis Option in Engineering Master’s Programs

All students entering with a minimum of two years industrial experience in the related area as determined by the School of Engineering are eligible to choose this option. In the non-thesis program students will be required to take an additional 3-credit course, to complete a 3-credit Special Project (ENGR 6660 Special Project, 1-9 credits) in the related field and submit a written report. After completion of the course work and the Special Project, students are required to take a two-hour oral exam on their Special Project and other courses in the MS program. No more than three credits of special Project will be allowed on the student’s final Program of Study.

ENGR 6660 Special Project 1-9

Engineering Courses

ENGR 5501 Methods of Engineering: 3 semester hours.
Introduction to fundamental concepts of engineering related to hazardous waste management. Not counted toward graduation. PREREQ: PHYS 1111

ENGR 5510 Introduction to Environmental Engineering: 3 semester hours.
Introduction to physical, chemical, and biological principles of solid and hazardous waste management, water and wastewater treatment, air pollutant control, and national environmental regulation. PREREQ: CHEM 1112 or permission of instructor

ENGR 5516 Applied Engineering Methods: 3 semester hours.
Applied discrete and continuous probability, random variables, probability distributions, sampling, data description, parameter estimation, hypothesis testing, inference, correlation, and linear and multiple regression. PREREQ: MATH 1170
ENGR 5560 Engineering Cost Estimating: 3 semester hours.
Introduction to design/construction processes, planning, contracts, procurement, plans/specifications, productivity analyses, safety, cost estimating, scheduling and environmental considerations. Use of data from actual construction projects. PREREQ: MATH 3360 or permission of instructor

ENGR 5570 Survey of Hazardous Waste Management Problems: 3 semester hours.
Environmental, technical, political and economic aspects of hazardous waste management. Credit not given if UI ChE 570 or ISU ENVE 6607 taken. PREREQ: ENGR 5501 or equivalent

ENGR 5572 Waste Treatment Technologies: 3 semester hours.
Procedures for characterization of hazardous waste sites, identification and application of physical, chemical, biological and thermal treatment. PREREQ: Permission of instructor

ENGR 5578 Probabilistic Risk Assessment: 3 semester hours.
Probabilistic methods applied to analysis and design. Setting probabilistic design objectives and calculating probabilistic performance emphasized. Equivalent to NE 5578. PREREQ: MATH 3364 and MATH 3360

ENGR 5589 Principles of Hazardous Waste Site Remediation: 3 semester hours.
Restoration technologies for waste sites. Site characterization and clean-up methods for chemical, radioactive, mixed wastes in soils and water. Practical methodologies. Credit not granted if ENVE 6614 taken. PREREQ: ENGR 5570 or ENVE 6607

ENGR 5591 Seminar in Engineering: 1 semester hour.
A series of lectures on current topics in the literature by participants or guest lecturers chosen from industry. May be repeated. PREREQ: Permission of instructor

ENGR 5593 Human Factors in Engineering: 3 semester hours.
Overview of the discipline of human factors engineering, including design of information displays, controls, workspace, and human performance. Relationship of engineering to corporate issues such as R&D, maintenance, training, operations, safety

ENGR 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

ENGR 6606 Environmental Law and Regulations: 3 semester hours.
Federal, state, local environmental regulations addressing environmental impact assessment; water and air pollution control, hazardous waste, resource recovery, reuses, toxic substances, occupational safety and health, radiation, siting, auditing, liability. Equivalent to POLS 6606. PREREQ: Permission of instructor

ENGR 6607 Hazardous Waste Management: 3 semester hours.
Management of hazardous and solid wastes, emphasis on CERCLA (Superfund) process for cleaning of uncontrolled hazardous waste sites and RCRA process for industrial treatment, storages, disposal facilities. PREREQ: MATH 5508

ENGR 6650 Thesis: 1-9 semester hour.
Thesis research must be approved by the student's advisory committee. Six credits may be used to satisfy the research requirements for the degree. 1-9 credits. May be repeated. Graded S/U

ENGR 6651 Seminar: 1 semester hour.
Current topics in engineering. Invited speakers will be used when possible. Students presentations required. May be taken a maximum of four times. 1 credit. Graded S/U

ENGR 6652 Special Problems: 1-3 semester hour.
Special experimental, computational, or theoretical investigation leading to development of proficiency in some area of engineering. Formal report required. 1-3 credits. May be repeated. May be graded S/U

ENGR 6655 Environmental Topics Seminar: 1 semester hour.
Environmental engineering and science topics related to hazardous waste characterization, cleanup, regulations. Includes case histories and presentations by graduate students and visiting speakers. May be repeated

ENGR 6660 Special Project: 1-9 semester hour.
A significant project, involving engineering applications, toward the completion of M.S. program with non-thesis option. Includes a report and oral examination. 1-9 credits. May be repeated. Graded S/U

ENGR 6670 Industrial Practice: 1 semester hour.
Work in an approved, supervised, engineering and/or computer science position. Students will submit a report, inclusive of hours logged, to the instructor with a written narrative focusing on the accomplishments and learning gained through the work performed. May be repeated. Not counted towards graduation requirements. PREREQ: Instructor approval

ENGR 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated


Nuclear Engr Courses

NE 5519 Energy Systems and Nuclear Power: 3 semester hours.
Fundamentals of conventional and renewable energy systems. Energy sources, distribution, use and environmental effects. Nuclear power plant "balance of plant" design. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: ME 3307 and MATH 3360 or instructor permission

NE 5521 Mathematical Methods in Nuclear Engineering: 3 semester hours.
First and second order ordinary differential equations (ODEs), generalization to systems of ODEs, Laplace transforms, series solutions to second order ODEs, special functions and Sturm-Liouville systems; partial differential equations by separation of variables. Examples will emphasize practical problems of interest to nuclear engineers. PHYS 6602 may be substituted for this course. PREREQ: MATH 3360

NE 5543 Thermal Fluids Laboratory: 1 semester hour.
Measurement of thermal and fluid properties, experiments on fluid flow and heat transfer systems. Equivalent to ME 5543. PREREQ: ME 3341 and NE 5576 or NE 4476

NE 5545 Reactor Physics: 3 semester hours.
Neutron balance equations in reacting systems, diffusion and diffusion-perturbation theory, introductory reactor kinetics, the multi-group energy approach, neutron slowing down and thermalization, introductory concepts in reactor systems. PREREQ: NE 3302 or NSEN 6685, and NE 5521 or equivalent

NE 5546 Nuclear Fuel Cycle Systems: 3 semester hours.
Uranium mining, milling, conversion; enrichment technology including cascade analysis; fuel fabrication, criticality safety in the nuclear fuel cycle, introduction to ORIGEN and Monte-Carlo methods and codes, reactor fuel management, waste management (LLW, HLW, TRU waste). PREREQ: NE 3302 or NSEN 6684 or equivalent
**NE 5548 Design Control and Use of Radiation Systems: 3 semester hours.**
Generation detection and measurement systems design for control and use of neutrons and gamma rays in industrial and medical applications. Radiation protection, regulations, environmental and economic considerations. COREQ: ENGR 5545

**NE 5551 Nuclear Seminar: 1 semester hour.**
Current topics in nuclear science and engineering. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: Graduate student status in NSEN or HPHY program

**NE 5558 Monte Carlo Methods and Applications: 3 semester hours.**
Basics of the application of stochastic methods to calculate the transport of neutrons, photons, and other subatomic particles. Includes introduction to the MCNP code, and sample application problems in both nuclear reactor design and in applications such as radiation beams used for cancer therapy

**NE 5576 Heat Transfer: 3 semester hours.**
Principles and engineering applications of heat transfer. Analysis of conduction, convection and radiation heat transfer. Design of heat exchangers. Cross-listed as ME 5576. PREREQ: ME 3341

**NE 5578 Reliability and Risk Assessment: 3 semester hours.**
Methods of evaluating process and equipment reliability. Probabilistic methods applied to analysis and design. Setting probabilistic design objectives and calculating probabilistic performance. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: MATH 3360 and EE 4416 or permission of instructor

**NE 5587 Medical Applications in Engineering and Physics: 3 semester hours.**
Applications of engineering and physics, principles, particularly nuclear science, to medicine. Covers radioisotopes, x-ray imaging, magnetic resonance and ultrasound imaging, radiation protection, codes and standards. PREREQ: MATH 3360 and PHYS 2212

**NE 5599 Experimental Course: 1-6 semester hour.**
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**NE 6699 Experimental Course: 1-6 semester hour.**
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**NE 8850 Doctoral Dissertation: 1-24 semester hour.**

**Nuclear Sci and Engr Courses**

**NSEN 5599 Experimental Course: 1-6 semester hour.**
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

**NSEN 6601 Nuclear Engineering Experiments: 3 semester hours.**
Experimental verification of theoretical models will be stressed. Kinetic behavior, neutron spatial distribution, perturbation, and other characteristic equations will be investigated. PREREQ: NE 5545, NE 4445, or equivalent

**NSEN 6603 Thermal Hydraulics: 3 semester hours.**
Advanced studies of both fluid flow and heat transfer in nuclear reactor cores. Conservation equations constitutive relations formulation and solution approaches for complete equation set. PREREQ: ME 3341 and ME/NE 5576 or ME 4476

**NSEN 6604 Dynamic Behavior of Nuclear Systems: 3 semester hours.**
Kinetic behavior of nuclear reactors including feedback effects of power transients, fuel burn up, coolant perturbations, etc. Mathematical models developed to predict both short and long term behavior. PREREQ: NE 4445 or NE 5545

**NSEN 6605 Nuclear Reactor Design: 3 semester hours.**
Detailed treatment of current, advanced nuclear power reactor designs. Emphasis on the inherent and engineered safety features and on advantages and disadvantages of each design. PREREQ: NE 5545 or NE 4445

**NSEN 6608 Radiation Transport: 3 semester hours.**
Advanced treatment of radiation transport and shielding concepts; interaction and attenuation of neutral particles, including photons. Use of deterministic and Monte Carlo computer codes. PREREQ: NE 5521 or NE 4421

**NSEN 6609 Radiation Detection Measurement and Applications: 3 semester hours.**
Advanced treatment of radiation detectors, measurement techniques, data acquisition, and signal processing. Emphasis on applications in science, industry, and medicine. PREREQ: NE 5545, NE 4445 or NSEN 6608

**NSEN 6615 Introduction to Practical Nuclear Engineering: 3 semester hours.**

**NSEN 6616 Special Applications of Nuclear Energy: 3 semester hours.**
Isotopic power systems for remote applications, nuclear propulsion for space vehicles, process heat and space heat reactors, maritime nuclear power plants, medical and industrial applications of nuclear radiation. PREREQ: Acceptance in Certificate Program in Applied Nuclear Energy

**NSEN 6617 Applications of Nuclear Energy: 3 semester hours.**
Continued study of nuclear power plant design, operation, and safety analysis of present plants, proposed future concepts. Examination of biological effects of radiation and nuclear medicine, food irradiation and waste heat applications. PREREQ: NSEN 6615 and acceptance in Certificate Program in Applied Nuclear Energy

**NSEN 6618 Radioactive Waste Management: 3 semester hours.**
Overview of historical, legal, political and social aspects of radioactive waste management; radwaste across the nuclear fuel cycle; waste definition and classification, treatment and disposal; design and assessment of repositories and radionuclide migration. PREREQ: NSEN 6684 and NSEN 6685 or equivalent

**NSEN 6619 Materials Science of Radwaste: 3 semester hours.**
Materials chemistry and fabrication of waste glasses, ceramics and cements; waste form development and characterization; waste form degradation; radionuclide release and migration. PREREQ: ENGR 3350 and NE 5546 or equivalent

**NSEN 6631 Computational Transport Theory: 3 semester hours.**
Study of advanced theories used in the calculation of nuclear reactor parameters including such topics as the Boltzmann transport equation with energy and space dependence multi-group, multi-region diffusion for reflected systems, perturbation theory, etc. Special emphasis will be given to the application of digital computers in nuclear reactor design problems. PREREQ: NSEN 6608
**Geosciences**

Chair and Associate Professor: Leif Tapanila
Professors: Link, McCurry, Rodgers, Thackray
Associate Professor: Crosby
Assistant Professors: Kobs Nawotniak, Godsey, Delparte, Pearson
Research Associate Professor: Shapley
Assistant Instructors: Lori Tapanila, Bottenberg
Joint Appointment Faculty: Finney, Lohse
IGS Research Geologist: Welhan
GIS TReC Director: Weber
Emeritus Professor: Hughes
Affiliate Faculty: Ames, Dehler, Davis, Glenn, Hailenmichael, Heath, Manic, Plummer, Rittenour, Schlegel, Sherwin, Smith, Solan

**Goals - All Programs**

1. Graduates will think critically and comprehend written and verbal communications about geoscience topics.
2. Graduates will have specific skills for careers in geoscience and related industries, licensure, or to continue in graduate study.
3. Graduates will attain employment in geology or related fields or gain admission to graduate programs.

**Goals - Graduate Degree Programs**

1. Graduates will be prepared to communicate effectively at the professional level.
2. Graduates will be prepared to define, implement, and complete geologic investigations.
3. Graduates will have professional skills for employment or further graduate study.

**Objectives**

1. Provide graduate students with coursework, laboratory experiences, field exercises and research opportunities in order to achieve all goals set forth above.
2. Provide graduate students with a professional interactive environment that improves their opportunities to enter successful careers in geoscience.
3. Increase graduate students' probability of obtaining employment in academia or industry, or of being accepted for doctoral studies.

**General Admission Requirements**

A complete graduate application for classified status in the Idaho State University Geosciences Department consists of:

1. The student must apply to and meet all criteria for admission to the Graduate School. An Idaho State University Graduate School application and official copies of transcripts from all previous coursework are required. In addition to the requirements of the Graduate School, applicants must meet the requirements of the department.
2. Departmental GRE requirements: 50th percentile or above in two of the three categories or strengths clearly demonstrated in other components of the application;
3. A letter of intent and statement of goals in graduate school;
4. Three letters of recommendation

**Doctor of Philosophy in Geosciences**

**Brief Description**

The Ph.D. program in geosciences is offered to those students who have demonstrated strong aptitude for research and scholarly activity. Research can be conducted in any field of the geosciences in which ISU faculty have expertise. The student's course of study will be determined in consultation with his or her advisors. Continued enrollment in the program is contingent upon maintaining a 3.0 grade point average and making satisfactory progress toward the degree.

In order to complete the research and prepare the dissertation, the program will normally require at least four years of full-time study beyond the master’s degree. In some cases, students without an appropriate M.S. degree but demonstrating an exceptional undergraduate academic record and aptitude for research may be directly admitted to the Ph.D. program.
Admission Requirements

All applicants must meet Idaho State University Graduate School admission requirements for doctoral programs. In addition, applicants must have attained a minimum of a bachelor’s degree in geosciences or a closely related field (environmental science, physics, engineering, chemistry, biology, etc.). The student’s course of study will be determined through consultation with the lead advisor, the department chair or the department’s graduate advising committee. Students may be required to complete any missing course material that is required for the B.S. degree in geosciences at Idaho State University.

A complete graduate application for classified status in the Idaho State University Geosciences Department Ph.D. program consists of:

1. GRE scores (a minimum of 50th percentile is required in both verbal and quantitative categories); Students for whom English is a second language who do not meet the minimum verbal GRE score must meet the Graduate School minimal TOEFL score.
2. An Idaho State University Graduate School application form, fee, and official copies of transcripts;
3. Three letters of recommendation; and
4. A statement outlining your motivation for graduate school and your longer term career goals.

General and Course Requirements

The doctoral degree requires completion of at least 84 graduate credits. Of these, at least 32 credits must be doctoral dissertation credits (GEOL 8850) and 35 credits must come from coursework at the graduate level, 2 to 4 of which must be a graduate seminar. Of the total 84 credits, at least 40 must be taken from the ISU Department of Geosciences (GEOL 6649 credits are not included in the credits counted toward the degree). Students entering the program with a master’s degree may receive credit for up to 30 credits toward the doctorate, split between dissertation and coursework as appropriate, subject to the department chair’s approval. Classes and seminars may be taken at, or in collaboration with, Boise State University and/or the University of Idaho.

Program of Study

An advisory committee of 3-4 graduate faculty, inclusive of the major professor, will guide each student in establishing his or her program of study based upon the student’s background and research interests. The committee has the responsibility of ensuring that the student has adequate knowledge to support research in his or her area of research.

During the full-time student’s third semester, the student will sit for a written Qualifying Examination. Exceptions to this schedule may be made when a student has academic deficits to make up, in which case the student may be granted an additional year. The student will be allowed two attempts to pass this examination. The student will be admitted to candidacy upon passing the Qualifying Examination.

A dissertation committee of 3-4 graduate faculty and a Graduate Faculty Representative (GFR), chaired by the candidate’s major professor, must be decided upon within six months of passing the qualifying examination. The dissertation committee may include individuals from other departments, affiliate graduate faculty, or graduate faculty from collaborating universities, such as Boise State University or the University of Idaho, but the majority of any committee must consist of graduate faculty from the ISU Department of Geosciences. In the semester following the passing of the qualifying exam, the full-time candidate, with guidance from the major professor, must satisfactorily complete the Preliminary Examination. This consists of an oral presentation and defense of a written proposal for dissertation research to the student’s dissertation committee.

The research and dissertation preparation must be done under the close supervision of the dissertation committee and must include at least one full year of work performed under the supervision of Idaho State University graduate faculty. The dissertation must demonstrate the student’s ability in independent investigation and must be a contribution to scientific knowledge. It must display mastery of the literature of the subject field and must demonstrate an organized, coherent development of ideas, with a clear exposition of results and a creative discussion of the conclusions.

Dissertation examination approval requires a public presentation of the dissertation and a satisfactory oral defense to the dissertation committee. Doctoral oral examinations are open to all regular members of the graduate faculty as observers. Further, oral presentations are open to the public until questioning by the dissertation committee begins. Additional details regarding the graduate timeline are available on the ISU Department of Geosciences website.

Doctor of Philosophy in Engineering and Applied Science

A doctoral program in Engineering and Applied Science, administered through the College of Science and Engineering, is available to Geoscience students. The complete program description is provided elsewhere in the College of Science & Engineering section of the Graduate Catalog.

Master of Science in Geology

The M.S. degree is offered to those students who have degrees in geology who have demonstrated the potential for research and a professional career. Classified (degree-seeking, fully accepted) admission to the program is recommended by the graduate faculty of the Geosciences Department. The student’s course of study will be determined by consultation and possibly an entrance examination. Students will normally be required to complete deficiencies, at the undergraduate level, in any courses required for the B.S. in geology at Idaho State University. Continued enrollment in the program is contingent upon maintaining a 3.0 grade point average and making satisfactory progress toward the degree. Unclassified status is used for students with large numbers of deficiencies or with low undergraduate GPAs. Unclassified students may apply for classified status when their performance warrants.

General Requirements

A student who wants to earn a master’s degree in geology must complete at least 30 credits of course work. These credits must be earned under the following conditions:

1. The student must earn at least 17 credits (including six thesis credits) at the 6600 level in Geology. GEOL 6649 credits are not included in this count.
2. The remaining 13 credits may be earned at the 5500 or 6600 level, of which eight credits may come from a related discipline. GEOL 6649 credits are not included in this count.

In addition to the 30 required credits, each student must take two approved courses from outside the Geosciences Department (e.g., technical writing, anthropology, etc.) or may opt to take the foreign language challenge exam at the elementary level.

The department requires that the following core courses be completed. These classes are normally taken during the first and second semesters of graduate study:
GEOL 5591 Seminar 1
GEOL 6601 Advanced Physical Geology 2
GEOL 6603 Geologic Writing Seminar 2

Graduate students may not sign up for GEOL 6650 (Thesis) until their thesis prospectus has been submitted and approved by the Thesis Committee. Additionally, all graduate students are required to present at least one geology colloquium dealing with their thesis topic prior to taking their oral examination.

**Master of Science in Geology with Emphasis in Environmental Geoscience**

A geology master's degree may be awarded with the annotation “Emphasis in Environmental Geoscience” added if the student completes the requirements for a master's degree plus at least 9 credits in approved graduate-level courses in the general area of Environmental Geoscience. Students who wish their master's degree to contain the added designation “With Emphasis in Environmental Geoscience” need to file an amended program of study form with the Graduate School. The curriculum may be developed in, but is not limited to, the following areas: surface and ground-water hydrology; environmental geochemistry; surficial geological processes; geomorphology; volcanic, earthquake and other geologic hazards; environmental geophysics; assessment and remediation of hazardous waste sites; Neogene and Quaternary geology. Courses in related sciences and engineering disciplines may also be included.

The curriculum must be approved by the student’s graduate committee and may include components taken at Boise State University and/or the University of Idaho. Inter-university graduate committees are encouraged.

**Master of Science in Geographic Information Science**

The M.S. in GISci degree is offered to students who wish to become competent geospatial researchers and as Geographic Information Systems (GIS) analysts. The program focuses on advancing knowledge to acquire, store and manage, visualize, model, and analyze information about spatial features and phenomena, with strong emphasis on real-world geospatial applications. The M.S. in GISci is designed as an interdisciplinary study of the nature, function, and development of spatial information systems and the application of these systems in research. Students will be involved in the technical study of the design and evaluation of scientific inquiry methods, tools, and techniques that will involve formulating hypotheses, collecting spatial information, and developing techniques for spatial analysis.

Applicants must hold a degree of Bachelor of Science or Bachelor of Arts in any discipline that allows research focus on geotechnologies including, but not limited to: Geosciences, Anthropology, Biology, Business, Information Technology, Computer Science, and Engineering. Each student in this program will have a member of the current Geotechnology Faculty as his/her major advisor. Applicants will be requested to state an advisor preference at the time of application; otherwise a preliminary advisor will be assigned upon acceptance to the program.

NOTE: Due to the interdisciplinary nature of this program, applicants should initially contact a faculty member or the Geotechnologies Program Director in the Department of Geosciences in order to match their interests with those of potential faculty advisors.

**Admission Requirements**

Applicants must apply to and meet all criteria for admission to the Graduate School as well as additional criteria for admission to the Department of Geosciences.

**General Requirements**

In their application, students must state a preference for the Thesis Option or Non-Thesis Option for the master's degree in GISci. The geotechnologies graduate faculty will determine for which track the student is accepted.

**Thesis Option:** Students desiring to enter careers in research or to pursue a doctorate are encouraged to request the Thesis Option master's degree in GISci. Students supported on research assistantships or teaching assistantships will typically be required to enroll in the Thesis Option. A minimum of 30 credit hours is required for completion of the Thesis Option master's degree in GISci, with a minimum of 15 credit hours (including six thesis credits) completed in 6600-level courses. The student’s graduate advisory committee (major advisor and co-advisor) will establish specific research goals, thesis topic, and the course electives in the program of study.

**Non-Thesis Option:** The Non-Thesis Option master's degree in GISci is particularly suited for working professionals who are interested in earning additional education without interrupting their careers. Typically students are not awarded research assistantships or teaching assistantships in the Non-Thesis Option. A minimum of 30 credit hours is required for completion of the Non-Thesis Option master's degree in GISci, with a minimum of 15 credit hours completed in 6600-level courses. The student must prepare and submit to the Geotechnologies program director a program of study in his or her first semester indicating the courses to be taken to meet these requirements. In their final semester, all Non-Thesis Option students will complete a written and oral capstone exam administered by geotechnologies graduate faculty and a graduate faculty representative.

All master's degree students are required to take a 1 credit hour graduate seminar (in any related discipline) and eleven credit hours of core courses. Generally these will be taken during the first year of study. Prerequisites for core courses are designed to permit students entering the master's degree program from all disciplines. Students entering with some or all of the core courses taken at the undergraduate level may, with permission from the student's advisory committee, substitute other graduate-level courses in the program of study.

**Program Requirements:**

<table>
<thead>
<tr>
<th>Program Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Seminar (taken in a related discipline)</td>
<td>1</td>
</tr>
<tr>
<td>Core Geotechnologies Courses</td>
<td>11</td>
</tr>
<tr>
<td>Electives 12 Thesis, 18 Non-Thesis</td>
<td>12</td>
</tr>
<tr>
<td>GEOL 6650 Thesis 6 credits thesis, 0 non-thesis</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

*Total Hours includes 15 hours at 6600-level

**Section A - Core Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 5504</td>
<td>Advanced Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5507</td>
<td>GPS Application in Research</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5508</td>
<td>GeoTechnology Seminar</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 5509</td>
<td>Remote Sensing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Section B - Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 6641</td>
<td>Research Project</td>
<td>1-6</td>
</tr>
<tr>
<td>BIOL 6651</td>
<td>Advanced Studies in Ecology (Advanced Data Analysis for Biologists)</td>
<td>3</td>
</tr>
<tr>
<td>INFO 5507</td>
<td>Database Design and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>CS 5551</td>
<td>Theory and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>CS 5542</td>
<td>GUI Development</td>
<td>3</td>
</tr>
<tr>
<td>GEMT 5530</td>
<td>Principles and Applications</td>
<td>3</td>
</tr>
</tbody>
</table>
global positioning systems (GPS), and remote sensing—are used to teach the data. Courses in three disciplines — geographic information systems (GIS), to become proficient in the collection, management, and analysis of spatial

The Graduate Certificate in GeoTechnology is offered to students who wish to present at least one colloquium dealing with their thesis topic prior to taking their oral examination. Additionally, all Thesis Option master's degree students are required to complete a thesis that will be original and encompass all stages of scientific work, including project design, research, education, and industry. Graduates will have the knowledge and skills necessary to apply geotechnology in their chosen careers or fields of interest.

Post-Baccalaureate GeoTechnology Certificate
(19 credits required)

Goals
1. Graduates will have the knowledge and skills necessary to apply geotechnology in their chosen careers or fields of interest.
2. Graduates will have the background to compete successfully for industrial and academic positions.

Objectives
1. Learn and perform techniques in Geographic Information Systems, Global Positioning System, Remote Sensing, and related skills.
2. Increase knowledge of how geotechnical applications are incorporated into research, education, and industry.
3. Increase knowledge of geotechnical workforce needs and the future directions of geotechnological applications.

The Graduate Certificate in GeoTechnology is offered to students who wish to become proficient in the collection, management, and analysis of spatial data. Courses in three disciplines — geographic information systems (GIS), global positioning systems (GPS), and remote sensing—are used to teach the theory and application of GeoTechnology. Students may pursue the Certificate independently or in conjunction with another Idaho State University degree.

## Admission Requirements

Classified admission is necessary to complete the Certificate and is recommended by the graduate faculty of the Geosciences Department in accordance with standards set by the Graduate School. Applicants must have a bachelor’s degree from an accredited school and meet the Graduate School admission requirements. All applicants must submit an application to the Graduate School. In addition, applicants who wish to apply for a Graduate Assistantship should submit to the Geosciences Department a GA request form, 3 letters of recommendation, and a statement of goals for graduate study.

## General Requirements

Students will complete 14 credits of required course work and 5 credits of elective course work to obtain the Certificate. The following courses are relevant:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 5503</td>
<td>Principles of Geographical Information System</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5504</td>
<td>Advanced Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5507</td>
<td>GPS Application in Research</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5508</td>
<td>GeoTechnology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5518</td>
<td>Ecological Topics</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5509</td>
<td>Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 5582</td>
<td>Independent Problems in Anthropology ((GIS and Anthropology))</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5582</td>
<td>Independent Problems</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5527</td>
<td>Information Technology for GIS</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5528</td>
<td>Programming for GIS</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5580</td>
<td>Special Topics in GIS</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5581</td>
<td>GeoTechnology Internship</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 6607</td>
<td>Spatial Analysis</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 6608</td>
<td>Geostatistics Spatial Data Analysis and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 6628</td>
<td>Advanced GIS Programming</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 6648</td>
<td>Research Problems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 19

For current information regarding GIS Center and courses, see the website: http://giscenter.isu.edu

## Courses

**GEOL 5502 Geomorphology:** 4 semester hours.
Process-response approach to landforms and landscapes. Historical perspectives, endo- and exogenetic processes, equilibrium and relict landforms. Emphasis on interrelations among various geologic sub-disciplines. Field trips, some lab exercises. COREQ: GEOL 5502L

**GEOL 5502L Geomorphology Laboratory:** 0 semester hours.
Assignments to apply principles from GEOL 5502. COREQ: GEOL 5502

**GEOL 5503 Principles of Geographical Information System:** 3 semester hours.
Study of GIS fundamentals, introduction to GPS, databases, and meta data. Practical application of ESRI ArcView?. Build, edit, and query a GIS; basic spatial analysis. Requires competence in computer operating systems. COREQ: GEOL 5503L

**GEOL 5503L Principles of GIS Laboratory:** 0 semester hours.
Computer lab assignments to apply principles from GEOL 5503. COREQ: GEOL 5503
GEOL 5504 Advanced Geographic Information Systems: 3 semester hours.
Study of relational databases, including spatial analysis, and remote sensing.
Practical application of Arc/Info and Idrisi. Exercises include digitizing, querying, digital terrain modeling, and image processing.

GEOL 5505 Volcanology: 3 semester hours.
Aspects of physical and chemical volcanology: types of volcanoes; interpretation of volcanic deposits; properties of magma; generation, rise, and storage of magma; volcanic hazards and prediction.

GEOL 5506 Environmental Geology: 3 semester hours.
Humans and the environment. Topics include: industrial exploitation of fossil fuels, energy sources, soils, water and other materials, environmental health, pollution, waste disposal, hazards, disasters, and land use.

GEOL 5507 GPS Application in Research: 3 semester hours.
Overview of satellite positioning systems usage. Topics include GPS theory, basic mapping concepts, use of mapping grade receivers for GIS data collection, and processing of carrier phase data for high precision applications. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: GEOL 4403 or GEOL 5503.

GEOL 5508 GeoTechnology Seminar: 2 semester hours.
GIS applications in natural and social sciences, ethical and legal issues, current status and recent advances in GeoTechnology. Lectures, discussion, readings.

GEOL 5509 Remote Sensing: 3 semester hours.
Fundamentals and applications of single frequency, multispectral, and hyperspectral remote sensing for physical, natural, engineering, and social sciences. Emphasis on acquiring, processing, integrating, and interpretation of imagery. Requires competence in computer operating systems.

GEOL 5510 Science in American Society: 2 semester hours.
Observational basis of science; technology's historical influences on scientific developments; perceptions of science in contemporary America; tools/strategies for teaching science. Equivalent to PHYS 5510.

GEOL 5511 Planetary Petrology: 3 semester hours.
Chemistry, mineralogy, tectonic association and petrogenesis of the principal igneous and metamorphic rock types on Earth and other planetary bodies.

GEOL 5512 Petrology Lab: 2 semester hours.
Microscopic identification of igneous and metamorphic minerals and rocks. COREQ: GEOL 5511.

GEOL 5515 Quaternary Global Change: 3 semester hours.
Use and interpretation of land forms, sediments, and fossil life in the reconstruction of Quaternary events, environment, and climates.

GEOL 5516 Global Environmental Change: 3 semester hours.
Analysis of the causes and effects of both natural and human-induced environmental change. Integrates knowledge from other Earth Systems Science courses, and examines and analyzes relevant problems in global environmental change using scientific methods.

GEOL 5517 Introduction to Soils and Critical Zone Processes: 3 semester hours.
Introduction to soils with emphasis on soil formation and classification and the physical, chemical and biological properties of soils. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: CHEM 1112, CHEM 1112L, or permission of instructor. COREQ: GEOL 5517L.

GEOL 5517L Introduction to Soils Laboratory: 1 semester hour.
Assignments to apply GEOL 5517. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: CHEM 1112, CHEM 1112L, or permission of instructor. COREQ: GEOL 5517.

GEOL 5520 Principles of Geochemistry: 3 semester hours.
Chemistry of the earth; discussion of factors controlling abundance, distribution, and migration of chemical elements within the earth.

GEOL 5522 Planetary Geology: 3 semester hours.
Formation of planetary bodies (planets, moons, asteroids, and comets), internal and surficial processes, tectonics, and planetary exploration.

GEOL 5527 Information Technology for GIS: 3 semester hours.
Study of servers, networks, system administration, relational database design and management, spatial database engines, and serving maps on the internet. The course uses traditional lectures along with demonstrations and hands-on exercises.

GEOL 5528 Programming for GIS: 3 semester hours.
Course introduces students to Visual Basic programming for GIS. Students will learn the fundamentals of object oriented programming, rapid application development, basic coding, help documentation, and compiling. Students will complete a project where they develop a GIS utility of their choice.

GEOL 5530 Principles of Hydrogeology: 3 semester hours.
Surface and groundwater occurrence, movement and recovery, water quality and pollution, well construction principles, and computer modeling.

GEOL 5531 Geobiology and the History of Life: 4 semester hours.
Principles of biology and geology applied to the study of fossil invertebrates; consideration is given to morphology, classification, evolution, paleoecology, and the stratigraphic significance of fossils. COREQ: GEOL 5531L.

GEOL 5531L Invertebrate Paleontology Laboratory: 0 semester hours.
Assignments to apply principles from GEOL 5531. COREQ: GEOL 5531.

GEOL 5535 Vertebrate Paleontology: 4 semester hours.

GEOL 5539 Principles of Taphonomy: 3 semester hours.
Effects of processes which modify organisms between death and the time the usually fossilized remains are studied. Emphasis on vertebrates. Equivalent to ANTH 5539 and BIOL 5539.

GEOL 5540 Ore Deposits: 3 semester hours.
Nature, mode of occurrence, and origin of ores with each type related to a given rock association and as the product of a particular environment.

GEOL 5545 Environmental and Engineering Geophysics: 4 semester hours.
Geophysical applications to environmental and geological engineering problems. Includes seismic, gravity, magnetic, electrical, and electromagnetic methods (includes lab).

GEOL 5550 Field Geology: 6 semester hours.
Five-week summer field camp, applying standard geologic field instruments and geologic concepts to a series of field problems.

GEOL 5551 Field Methods in Environmental Sciences: 3 semester hours.
Practical application of field methods with an Earth systems focus. Analysis of topographic and vegetational data, hydrologic methods, riverine processes and habitat, and soil characteristics, emphasizing use of GIS, GPS, remote sensing and other geotechnologies. Two-week summer course at Lost River Field Station.

GEOL 5552 Sedimentation-Stratigraphy: 4 semester hours.
Principles of sedimentation from source to diagenesis. The basis of stratigraphic nomenclature, classification, and correlation of rock units. Laboratory covers unconsolidated sediment, hand specimens, subsurface, and field techniques.

GEOL 5552L Sedimentation-Stratigraphy Laboratory: 0 semester hours.
Assignments to apply principles in GEOL 5552. COREQ: GEOL 5552.
GEOL 5554 Basic Engineering Geology: 3 semester hours.
Geology applied to engineering projects; geotechnical problems in civil projects; site methods. Subsurface investigations including scope, logging, and in situ and geophysical methods. Equivalent to CE 5554

GEOL 5555 Geologic Data Methods: 3 semester hours.
Classification of geotechnical projects. Geologic mapping for civil engineering purposes. Development of engineering geologic profiles. Pre-bid geotechnical investigations and field instrumentation for civil works projects. Equivalent to CE 5555

GEOL 5556 Geology of Idaho: 2 semester hours.
Geologic provinces and plate tectonic history of Idaho. Topics include basement, Belt Supergroup, Phanerozoic passive margin, Cordilleran orogen, accreted terranes, terranes, Idaho batholith, Challis volcanics, Idaho mineral deposits, Basin and Range, Snake River and Pleistocene floods

GEOL 5558 Geology of North America: 3 semester hours.
Regional stratigraphy and tectonics of North America emphasizing National Parks and the Intermountain West. Graduate students will do extensive additional reading in current literature

GEOL 5565 Subsurface Geology: 3 semester hours.
Principles of well log interpretation and correlation, core and cuttings description, cross section and subsurface map creation. Environmental geology, hydrogeology, mining, geological engineering, and petroleum applications

GEOL 5571 Historical Geography of Idaho: 3 semester hours.
Influences of geography and geology on Idaho's economic, political and cultural history. May be team taught and include field trips, discussion sections. Equivalent to HIST 5571 and POLS 5571

GEOL 5575 Essentials of Geomechanics: 3 semester hours.
Essentials of rock fracture relevant to geological engineering including stress and strain, properties and classification of rock masses, rock fracture mechanisms. Equivalent to CE 5575

GEOL 5576 Engineering Geology Project: 1 semester hour.
Team projects studying actual problems in engineering geology. Equivalent to CE 5576

GEOL 5580 Special Topics in GIS: 1-3 semester hour.
Visual Basic programming for GIS. May be repeated

GEOL 5581 GeoTechnology Internship: 1-3 semester hour.
Choose a project with either natural resource or municipal GIS emphasis and work with real-world data at the internship's off-campus location. Projects focus on using/creating geotechnical data. May be repeated

GEOL 5583 Earthquake Engineering: 3 semester hours.
Mechanism and characterization of earthquakes; seismic risk analysis; site and structural response; applications from points of view of engineer and geologist. Equivalent to CE 5580

GEOL 5590 Ecosystem Ecology and Global Change: 4 semester hours.
Examination of the structure and function of ecosystems and their responses to natural and anthropogenic changes emphasizing energy, water, carbon, and nitrogen cycling. Field trips. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus

GEOL 5591 Seminar: 1 semester hour.
Field trip or discussion of current geologic literature and geologic problems. May be repeated until 3 credits are earned. Graded S/U

GEOL 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. 1-3 credits. May be repeated. May be graded S/U

GEOL 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

GEOL 6601 Advanced Physical Geology: 2 semester hours.
An advanced level course in physical geology required for all first year graduate students. A review of the principles of physical geology, and an overview of current hypotheses and research in the field

GEOL 6602 Advanced Geomorphology: 3 semester hours.
Seminar in the treatment of theoretical concepts in classical and modern geomorphology

GEOL 6603 Geologic Writing Seminar: 2 semester hours.
Review of quality geologic writing practices; extended field trip and introduction to regional geology. Topics include databases, abstracts, stratigraphic terminology, grant proposals, thesis prospecti, and use of reference library. Required for all Geosciences graduate students

GEOL 6604 Watershed Modeling: 3 semester hours.
Use of geographic information systems and integrated simulation models to study the hydrologic cycle, water quality, agricultural and industrial impacts, environmental and related issues at the watershed scale

GEOL 6607 Spatial Analysis: 3 semester hours.
This course focuses on advanced techniques for spatial data analysis covering issues in sampling, characterizing, visualizing, exploring and modeling spatial data. Techniques for point patterns, continuous data, area data, and spatial interaction data will be emphasized

GEOL 6608 Geostatistics Spatial Data Analysis and Modeling: 3 semester hours.
Description, analysis and modeling of spatial data in the geosciences, emphasizing hands-on application of geostatistical software tools for spatial analysis and probabilistic modeling in petroleum and groundwater reservoirs, environmental remediation, and mining or any application involving spatially-varying data. PREREQ: GEOL 6607 or permission of instructor

GEOL 6609 Advanced Image Processing: 1 semester hour.
An advanced-level course in image processing techniques, such as using transforms, filters, and classifiers for data derived in the visible, infrared, and microwave. Specific topics include preprocessing, endmember analysis, classification (including spectral unmixing), and accuracy assessment. Practical application of theory for graduate student theses and dissertations

GEOL 6611 Idaho Water Resources Seminar: 1 semester hour.
This course is an interactive discussion focused on water science, issues, and policy across the state. The seminar is a joint effort of Idaho's universities and multiple institutes, agencies and firms

GEOL 6615 Neutron Activation Analysis: 4 semester hours.
Theory and use of neutron activation methods for quantitative chemical analysis of natural and synthetic materials. Applications in geologic systems will be emphasized. Equivalent to CHEM 6615 and PHYS 6615

GEOL 6617 Environmental Geochemistry: 3 semester hours.
Geochemistry of environmental systems. Emphasis given to low-temperature water-rock interactions, including sorption processes, retardation, reaction kinetics and reaction-mass transport modeling. Equivalent to CHEM 6617

GEOL 6618 Applied Geophysics: 3 semester hours.
Geologic interpretation of reflection seismic, refraction seismic, gravity, magnetic, and ground penetrating radar data
GEOL 6621 Advanced Structural Geology: 3 semester hours.
Current aspects of structural geology or tectonics. May focus on regional structures, tectonic theories, orogenetic mechanics, global tectonic model(s), or topics of special interest in structural geology

GEOL 6622 Orogenic Belts of the World: 3 semester hours.
Interdisciplinary analysis of Alpine and Cordilleran-type mountain belts including their infrastructure, tectonic evolution, and mechanisms of formation

GEOL 6623 Tectonics and Sedimentation: 3 semester hours.
Sedimentary basin analysis and mechanisms of subsidence. Extensional, compressional and strikeslip tectonics as related to depositional systems, facies architecture, and provenance

GEOL 6625 Quantitative Geochemistry Lab: 3 semester hours.
Practical application of theory involving use and operation of instrumental techniques. Equivalent to CHEM 6625

GEOL 6628 Advanced GIS Programming: 3 semester hours.
Course focuses on programming for large data/spatial problems. Students will learn to use distributed and shared memory programming to create their own customized solutions. Problem solving is GIS-system independent. PREREQ: GEOL 5503, GEOL 5528, and permission of instructor

GEOL 6630 Advanced Hydrogeology: 3 semester hours.
Advanced topics in hydrogeology, including precipitation and stream flow, soil moisture, principles and modeling of groundwater flow, migration of wastes in both saturated and unsaturated zones, design and impact of production wells, water chemistry

GEOL 6631 Sedimentology: 3 semester hours.
Provenance, dispersal, and environments of deposition; emphasis on various aspects of surface equilibria

GEOL 6641 Advanced Petrology: 3 semester hours.
Selected topics in igneous and/or metamorphic petrology, regional and/or global aspects of current interest, including relationship to major advances in other areas of solid earth sciences

GEOL 6646 The Sedimentary Record: 4 semester hours.
Earth history as revealed in sedimentary facies, provenance, chemical and isotopic excursions. Methods of analysis including sequence stratigraphy, geochronology, biogeochemistry, chemostatigraphy. Sedimentary petrology and field methods emphasized in lab

GEOL 6648 Research Problems: 1-6 semester hour.
Independent research on non-thesis subject matter, subject to approval of the staff before results receive credit. Course may be repeated until 10 credits are earned

GEOL 6649 Pre-Thesis: 1-6 semester hour.
Preparation and development of a prospectus for a thesis or dissertation project. May be repeated. Graded S/U. Credits are not counted in the program graduation credit requirement

GEOL 6650 Thesis: 1-9 semester hour.
Ordinarily a field problem with supporting laboratory work undertaken by the student with approval of the geology graduate faculty, and after a thesis prospectus has been accepted. May be repeated. Graded S/U

GEOL 6699 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

GEOL 6850 Doctoral Dissertation: 1-16 semester hour.

Mathematics

Chair and Professor: Fisher
Assistant Chair and Professor: Laquer
Professors: Gironella, Hanin, Kriloff, Palmer, Payne, Stowe, Wolper
Associate Professors: S. Chen, Y. Chen, Derryberry, Gryazin, W. Zhu
Assistant Professors: Y. Zhu
Visiting Assistant Professor: Foster-Greenwood

Goals

- Master's degree students develop a broad knowledge of mathematics and a degree of competence in one field within mathematics.
- Doctoral students develop a broad knowledge of mathematics; learn about the roles of instruction, service, and research in the mathematical profession; and study a mathematical topic in depth, reporting their findings in a thesis that meets professional standards.
- Graduate students find employment in teaching or industry.

Doctor of Arts in Mathematics

The Doctor of Arts in Mathematics is designed to prepare the student for a teaching career in institutions of higher learning. The program emphasizes broad competence in mathematics rather than specialization and makes provision for classroom teaching experience.

Master of Science in Mathematics

The Master of Science in Mathematics degree program is designed to provide a broad and in-depth background and prepare the student for further study at the doctoral level or for an industrial or academic career.

Master of Arts in Mathematics for Secondary Teachers

The Master of Arts in Mathematics for Secondary Teachers (MAMST) is designed for people with a bachelor’s degree who hold a secondary school teaching certificate for the teaching of mathematics and have at least three years of full-time teaching experience. The objective of the program is to enhance the mathematical training of secondary teachers and to equip such teachers with a broad and modern background in mathematics.

Doctor of Arts in Mathematics

The Doctor of Arts program in mathematics is designed to prepare the student for a teaching career in institutions of higher learning. The program emphasizes broad competence in mathematics rather than specialization and makes provision for classroom teaching experience.

Admission Requirements

Admission to the D.A. program requires the completion of the requirements for a master’s degree equivalent to the M.S. in mathematics at Idaho State University with a 3.5 GPA or higher in all graduate work. The general Graduate Record Examination (GRE) is required with a minimum score at the 67th percentile.
on the quantitative section and at the 50th percentile for the average of the percentiles on the quantitative, verbal, and analytical sections.

In addition to completing the application procedure specified by the Graduate School (page 7), applicants to the D.A. program in Mathematics must:

1. Submit directly to the Department of Mathematics a letter discussing the applicant’s reasons for wishing to pursue the D.A. program. The letter must contain a request for an assistantship or fellowship if the applicant wishes to be considered for such.
2. Arrange for three confidential letters of recommendation to be sent directly to the Department of Mathematics. These letters must address the applicant’s background and potential for success in the study of advanced mathematics and in the teaching of college-level mathematics.

Applicants will be selected according to the following criteria:

1. Measure of success in completing the master’s program;
2. Satisfactory GRE scores;
3. Teaching experience;
4. Letters of recommendation;
5. Applicant’s reasons for wishing to pursue this specific program.

Applications must be received by April 1 to be given full consideration.

Residence

Up to six semester hours beyond the master’s degree may be transferred into the program. Two consecutive semesters of full-time study are required in residence.

Committees and Advising

The student will be advised initially by the departmental graduate committee. This group will be the student’s temporary advising committee and will assist in the selection of the student’s permanent committee which will supervise the remainder of the student’s program.

General Requirements

The program requires course work, a thesis, teaching internships, and examinations as described below. The program must include a minimum of 48 credits beyond the masters degree, and at least two 6600-level sequences taken in residence. Approval for optional courses is granted by the Mathematics Department Graduate Committee.

Course Work

Mathematics Component

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 6625/6626</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6627/6628</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6631/6632</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6671/6672</td>
<td>3</td>
</tr>
<tr>
<td>Twelve additional 6600-level Mathematics credits, including one full-year sequence</td>
<td>12</td>
</tr>
</tbody>
</table>

Interdisciplinary and Applied Mathematics Component

The following courses satisfy this requirement:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 5550</td>
<td>1</td>
</tr>
<tr>
<td>MATH 5551</td>
<td>1</td>
</tr>
<tr>
<td>MATH 5521</td>
<td>1</td>
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<tr>
<td>MATH 5522</td>
<td>1</td>
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<tr>
<td>MATH 5541</td>
<td>1</td>
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<tr>
<td>MATH 5542</td>
<td>1</td>
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<tr>
<td>MATH 5557</td>
<td>1</td>
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<tr>
<td>MATH 5558</td>
<td>1</td>
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<td>MATH 5559</td>
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<td>MATH 6664</td>
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<tr>
<td>MATH 6665</td>
<td>1</td>
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</tbody>
</table>

Graduate courses taken in other departments may be applied toward this requirement, but such courses must contain a substantial mathematics component and be approved by the mathematics department graduate committee.

Education Component

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 6600</td>
<td>1</td>
</tr>
<tr>
<td>MATH 6610</td>
<td>1</td>
</tr>
<tr>
<td>MATH 6692</td>
<td>2</td>
</tr>
<tr>
<td>MATH 6693</td>
<td>1</td>
</tr>
</tbody>
</table>

An approved course in technical or expository writing if recommended by the departmental graduate committee in consultation with the student’s permanent committee.

Doctor of Arts Thesis

An expository research paper in mathematics or mathematics education.

Teaching Internship

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 7700</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours

56

Examinations

2. Oral Examination: An oral examination on the four core areas previously described in Section 1.
3. Final Examination: The candidate will present to the public a lecture on the candidate’s dissertation, and will answer any questions that arise. Following the lecture and question period, the candidate will be examined orally by the candidate’s dissertation committee on topics related to the dissertation.

Doctor of Philosophy in Engineering and Applied Science

A doctoral program in Engineering and Applied Science, administered through the College of Science and Engineering, is available to Mathematics students. The complete program description is provided elsewhere in the College of Science & Engineering section of the Graduate Catalog.

Master of Science in Mathematics

Admission Requirements

The student must meet the following criteria for admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with the following departmental requirements.

For full admission to the M.S. degree program in mathematics, the applicant must have completed all requirements for a bachelor’s degree in mathematics at an accredited institution. The applicant should have a grade point average
of at least 3.0 in upper-division undergraduate course work and have taken the Graduate Record Examination, achieving at least the 50th percentile on the quantitative part of the general aptitude test. The student should have completed course work in modern algebra, differential equations, advanced calculus, and introductory analysis. Applicants not fully meeting these requirements may be allowed to make up deficiencies at Idaho State University. If the applicant wishes to be considered for an assistantship, the applicant must send directly to the Department of Mathematics a letter requesting such and a brief outline of the applicant’s qualifications for a teaching or research assistantship.

Applications must be received by April 1 to be given full consideration.

General Requirements
The Master of Science program in Mathematics provides thesis and non-thesis options. Students choosing either option must take 15 credits in mathematics at the 6600 level, including two full-year sequences. Of the remaining 15 graduate credits required for the degree, at least 9 must be in mathematics. The entire program of study must be approved by the departmental graduate committee.

Students must pass a written examination on one of the 6600-level sequences in their programs of study. Those who choose the thesis option must also complete and defend an expository or research thesis, for which they will receive 6 credits. The Master of Science program in Mathematics provides thesis and non-thesis options. Students choosing either option must take 15 credits in mathematics at the 6600 level, including two full-year sequences. Of the remaining 15 graduate credits required for the degree, at least 9 must be in mathematics. The entire program of study must be approved by the departmental graduate committee.

Applications must be received by April 1 to be given full consideration.

Master of Arts in Mathematics for Secondary Teachers

Admission Requirements
The student must apply to, and meet all criteria for, admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with the following departmental requirements. For full admission to the MAMST program, the applicant:

1. must hold a bachelor’s degree and a secondary teaching certificate in mathematics;
2. must have at least three years’ full-time teaching experience;
3. must have a GPA of at least 3.0 for the last two years of undergraduate work;
4. must have taken the Graduate Record Examination (GRE), achieving at least the 50th percentile on the quantitative part of the general aptitude test; and
5. must have completed undergraduate work equivalent to that required for the Idaho State University Teaching Major in Mathematics.

General Requirements
The MAMST degree requires the following:

1. Possession of a bachelor’s degree and a secondary teaching certificate in mathematics.
2. Completion of a program of study approved by the Graduate Committee of the Department of Mathematics and the Dean of the Graduate School.
3. Completion of a minimum of 30 credits beyond the bachelor’s degree in courses numbered 5500 or above.
4. Approval of semester papers as required by the Graduate Committee of the Department of mathematics.
5. Satisfactory performance on comprehensive written and oral examinations on the student’s program of study.

Courses

**MATH 5503 Survey of Combinatorics and Graph Theory: 3 semester hours.**
Enumeration techniques, including generating functions. Applications. Introductory graph theory. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: MATH 1175 AND MATH 2240

**MATH 5504 Topics in Combinatorics and Graph Theory: 3 semester hours.**
Continuation of MATH 5503. Application of algebraic, analytic, and/or probabilistic methods to combinatorial, graph-theoretic, and algorithmic problems. Specific, evaluated graduate-level activities and/or performances are identified in the course syllabus. PREREQ: MATH 5503 or permission of instructor

**MATH 5506 Advanced Linear Algebra: 3 semester hours.**
Advanced linear algebra with a strong emphasis on proof. Real and complex vector spaces, linear transformations, polynomials associated to matrices, determinants, canonical forms, inner product spaces. PREREQ: MATH 2240

**MATH 5507 Modern Algebra I: 3 semester hours.**
Rings, fields, groups, algebras, and selected topics in abstract algebra. PREREQ: MATH 2240 and MATH 2287

**MATH 5508 Modern Algebra: 3 semester hours.**
Rings, fields, groups, algebras, and selected topics in abstract algebra. PREREQ: MATH 2240 and MATH 2287

**MATH 5521 Advanced Engineering Mathematics I: 3 semester hours.**
Analysis of complex linear and nonlinear engineering systems using advanced techniques, including Laplace transforms, Fourier series and classical partial differential equations. SUGGESTED PREREQ: MATH 3360

**MATH 5522 Advanced Engineering Mathematics II: 3 semester hours.**
Analysis of complex linear and nonlinear engineering systems using advanced techniques, including probability and statistics, advanced numerical methods and variational calculus. SUGGESTED PREREQS: ENGR 5521 or MATH 5521

**MATH 5523 Introduction to Real Analysis I: 3 semester hours.**
The real number system, topology of metric spaces, sequences, limits, series of functions and convergence, continuity, theory of differentiation and Riemann integration of functions of one variable and several variables, and selected topics on measure theory and integration. SUGGESTED PREREQS: MATH 2240, MATH 2275, and MATH 3326

**MATH 5524 Introduction to Real Analysis II: 3 semester hours.**
The real number system, topology of metric spaces, sequences, limits, series of functions and convergence, continuity, theory of differentiation and Riemann integration of functions of one variable and several variables, and selected topics on measure theory and integration. SUGGESTED PREREQS: MATH 4423 or MATH 5523

**MATH 5526 Elementary Analysis: 3 semester hours.**
A beginning course in analysis on the real line. Proof writing and the underlying logic are emphasized throughout the course. Topics include sets and functions, sequences, convergence, limits, continuity, and infinite series. Enrollment restricted to students admitted to the MAMST program and approved by the department graduate committee

**MATH 5527 Vector Analysis: 3 semester hours.**
Calculus of vector functions of several variables, derivative matrix, chain rule, inverse function theorem, multiple integration. Change of variables. Integrals over curves and surfaces. Green's, Stokes and Divergence Theorems. Applications to Physics. Enrollment restricted to students admitted to the MAMST program and approved by the departmental graduate committee.
MATH 5535 Elementary Number Theory: 3 semester hours.
Diophantine equations, prime number theorems, residue systems, theorems of Fermat and Wilson, and continued fractions. SUGGESTED PREREQ: MATH 5507

MATH 5541 Introduction to Numerical Analysis I: 3 semester hours.
Introduction to standard numerical techniques for solving problems dealing with nonlinear equations, systems of linear equations, differential equations, interpolation, numerical integration, and differentiation. SUGGESTED PREREQ: MATH 2240, MATH 3326 and MATH 3360 or permission of instructor

MATH 5542 Introduction to Numerical Analysis: 3 semester hours.
Extension of MATH 5541 for students who wish to pursue more advanced techniques with emphasis on analysis. Typical topics covered include numerical methods applied to partial differential equations, integral equations, and in-depth treatment of topics covered in MATH 5541. SUGGESTED PREREQ: MATH 5541

MATH 5543 Modern Geometry I: 3 semester hours.
Planar Euclidean geometry. Rigid motions and symmetry in the plane. Enrollment restricted to students admitted to the MAMST program and approved by the departmental graduate committee

MATH 5544 Modern Geometry: 3 semester hours.
Transformation groups. Topics from hyperbolic, projective, and other geometries

MATH 5550 Mathematical Statistics I: 3 semester hours.
Probability, random variables, discrete and continuous distributions, order statistics, limit theorems, point and interval estimation, uniformly most powerful tests, likelihood ratio tests, chi-square and F tests, nonparametric tests. SUGGESTED PREREQS: MATH 3326 and MATH 3352

MATH 5551 Mathematical Statistics: 3 semester hours.
Probability, random variables, discrete and continuous distributions, order statistics, limit theorems, point and interval estimation, uniformly most powerful tests, likelihood ratio tests, chi-square and F tests, nonparametric tests. SUGGESTED PREREQS: MATH 3326 and MATH 3352

MATH 5552 Introduction to Probability: 3 semester hours.
Fundamentals of probability, discrete and continuous random variables, distributions such as binomial, uniform, Poisson, hypergeometric, normal, gamma; expectation; joint, marginal, conditional distributions; central limit theorem; applications to statistics. Emphasizes material needed to develop statistical inference methods. Enrollment restricted to students admitted to MAMST program and approved by the departmental graduate committee

MATH 5553 Topics in Statistics: 1-3 semester hour.
Content varies. May be repeated for up to 6 credits. SUGGESTED PREREQ: Permission of instructor

MATH 5555 Operations Research I: 3 semester hours.
Deterministic problems in operations research oriented towards business. Includes linear programming, transportation problems, network analysis, PERT, dynamic programming, and elementary game theory. Enrollment restricted to students admitted to the MAMST program and approved by the departmental graduate committee

MATH 5556 Operations Research II: 3 semester hours.
Probabilistic models oriented towards business are treated. Selections from stochastic processes, Markov chains, queuing theory, inventory theory, reliability, decision analysis and simulation. Enrollment restricted to students admitted to the MAMST program and approved by the departmental graduate committee

MATH 5557 Applied Regression Analysis: 3 semester hours.
Simple and multiple linear regression, polynomial regression, diagnostics, model selection, models with categorical variables. SUGGESTED PREREQS: MATH 3350 or MATH 3352 or permission of instructor

MATH 5558 Experimental Design: 3 semester hours.
The linear model for experimental designs, analysis of variance and covariance, block designs, factorial designs, nested designs, choice of sample size. SUGGESTED PREREQS: MATH 3350 or MATH 3352 or permission of instructor

MATH 5559 Applied Multivariate Analysis: 3 semester hours.
Matrix computation of summary statistics, graphical analysis of multivariate procedures, multivariate normal distribution, MANOVA, multivariate linear regression, principal components, factor analysis, canonical correlation analysis. SUGGESTED PREREQS: MATH 2240 and one of the following: MATH 3350, MATH 5557, MATH 5558 or permission of instructor

MATH 5560 Differential Equations: 3 semester hours.
Theory and applications of ordinary differential equations. Enrollment restricted to students admitted to the MAMST program and approved by the departmental graduate committee

MATH 5562 Introduction to Complex Variables: 3 semester hours.
Introduction to the study of functions of a complex variable including the algebra and geometry of complex numbers, analytic functions, power series, integral theorems, and applications. Enrollment restricted to students admitted to the MAMST program and approved by the departmental graduate committee

MATH 5565 Partial Differential Equations: 3 semester hours.
Equations of the first and second orders, methods of solution, Laplace's Equation, heat equation, and the wave equation. Emphasis on applications to problems in the physical sciences and engineering. SUGGESTED PREREQS: MATH 2275 and MATH 3360

MATH 5573 Introduction to Topology: 3 semester hours.
Metric spaces; convergence; notions of continuity; connected, separable and compact spaces. SUGGESTED PREREQ: Permission of instructor

MATH 5581 Special Problems: 1-3 semester hour.
Reading and conference in an area not usually covered by a regular offering. May not be applied to graduate degrees. May be repeated. May be graded S/U

MATH 5591 Mathematics Seminar: 1-3 semester hour.
Advanced reading and discussion on selected topics in mathematics. May be taken for credit more than once. SUGGESTED PREREQ: Senior standing or equivalent

MATH 5597 Professional Education Development Topics: 1-3 semester hour.
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. May be graded S/U

MATH 5599 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

MATH 6600 Introduction to College Mathematics Teaching: 1 semester hour.
Practical course management issues for teaching mathematics at the college level. Open only to graduate students in mathematics. May not be repeated. Graded S/U

MATH 6610 Topics in College Mathematics Teaching: 1 semester hour.
Theories and research related to mathematics teaching and learning. May be repeated. Graded S/U

MATH 6625 Real Analysis: 3 semester hours.
Measures, the Lebesgue integral, Lp spaces and other normed vector spaces, approximation theorems. SUGGESTED PREREQ: MATH 5524
MATH 6626 Real Analysis: 3 semester hours.
Measures, the Lebesgue integral, Lp spaces and other normed vector spaces, approximation theorems. SUGGESTED PREREQ: MATH 5524

MATH 6627 Complex Analysis: 3 semester hours.
Theory of functions of a single complex variable, including their differentiation, integration and representation by sums, products and integrals. The Cauchy integral formula and its consequences, conformal mappings, harmonic functions

MATH 6628 Complex Analysis: 3 semester hours.
Theory of functions of a single complex variable, including their differentiation, integration and representation by sums, products and integrals. The Cauchy integral formula and its consequences, conformal mappings, harmonic functions

MATH 6631 Abstract Algebra: 3 semester hours.
Advanced theory and structural properties of groups, rings, modules, and fields, including topics such as group actions, universal maps, and Galois theory. SUGGESTED PREREQS: MATH 5508 or permission of instructor

MATH 6632 Abstract Algebra: 3 semester hours.
Advanced theory and structural properties of groups, rings, modules, and fields, including topics such as group actions, universal maps, and Galois theory. SUGGESTED PREREQS: MATH 5508 or permission of instructor

MATH 6633 Matrix Analysis: 3 semester hours.
Eigenvalues, special matrices, normal forms, matrix polynomials, matrix functions, matrix norms, Kronecker products, stability, matrix equations, generalized inverses, nonnegative matrices. SUGGESTED PREREQS: MATH 5506 and MATH 5524

MATH 6636 Lie Groups and Lie Algebras: 3 semester hours.
Lie groups, Lie algebras, and their representations. Structure of real and complex Lie algebras. Representations of semi-simple Lie algebras and compact Lie groups. SUGGESTED PREREQS: MATH 5506 and MATH 5507 or permission of instructor

MATH 6637 Lie Groups and Lie Algebras: 3 semester hours.
Lie groups, Lie algebras, and their representations. Structure of real and complex Lie algebras. Representations of semi-simple Lie algebras and compact Lie groups. SUGGESTED PREREQS: MATH 5506 and MATH 5507 or permission of instructor

MATH 6641 Numerical Analysis: 3 semester hours.
Topics selected from approximation theory, optimization, numerical linear algebra, differential and integral equations, spline analysis, computer algorithms, and other areas of current research in numerical analysis. SUGGESTED PREREQS: MATH 5523 and MATH 5541

MATH 6642 Numerical Analysis: 3 semester hours.
Topics selected from approximation theory, optimization, numerical linear algebra, differential and integral equations, spline analysis, computer algorithms, and other areas of current research in numerical analysis. SUGGESTED PREREQS: MATH 5523 and MATH 5541

MATH 6650 Thesis: 1-6 semester hour.
May be repeated. Graded S/U

MATH 6652 Stochastic Processes: 3 semester hours.
Topics from conditional probability and expectation, martingales, Kolmogorov's Theorem, Markov processes, random walks, Brownian motion, diffusions, dynamic programming, stochastic differential equations. Applications to modeling physical and/or social dynamical systems. SUGGESTED PREREQ: MATH 5550

MATH 6653 Advanced Topics in Probability and Statistics: 3 semester hours.
Topics such as experimental design, regression analysis, multivariate statistical analysis. SUGGESTED PREREQS: MATH 3352 and MATH 5506 or permission of instructor

MATH 6655 Combinatorics: 3 semester hours.
Theory and applications of: choice and enumeration techniques, generating functions, partitions, designs and configurations, graph theory including digraphs, algebraic graph theory and extremal problems. SUGGESTED PREREQ: Permission of instructor

MATH 6656 Combinatorics: 3 semester hours.
Theory and applications of: choice and enumeration techniques, generating functions, partitions, designs and configurations, graph theory including digraphs, algebraic graph theory and extremal problems. SUGGESTED PREREQ: Permission of instructor

MATH 6662 Differential Equations: 3 semester hours.
Existence, uniqueness, and dependence of solutions upon initial conditions; linear equations; autonomous equations; dynamical systems and stability; partial differential equations of first and second order, with applications. SUGGESTED PREREQS: MATH 3326, MATH 3327, and MATH 3360

MATH 6663 Differential Equations: 3 semester hours.
Existence, uniqueness, and dependence of solutions upon initial conditions; linear equations; autonomous equations; dynamical systems and stability; partial differential equations of first and second order, with applications. SUGGESTED PREREQS: MATH 3326, MATH 3327, and MATH 3360

MATH 6664 Methods of Applied Mathematics: 3 semester hours.
Transform, spectral, variational and perturbation methods applied to the analysis of equations involving differential and integral operators. Emphasis on equations arising in physical and biological sciences. SUGGESTED PREREQS: MATH 5506 and MATH 5565

MATH 6665 Methods of Applied Mathematics: 3 semester hours.
Transform, spectral, variational and perturbation methods applied to the analysis of equations involving differential and integral operators. Emphasis on equations arising in physical and biological sciences. SUGGESTED PREREQS: MATH 5506 and MATH 5565

MATH 6667 Functional Analysis: 3 semester hours.
Major results of functional analysis, such as the Hahn-Banach, open mapping, and closed graph theorems; study of Hilbert and Banach spaces; spectral analysis. SUGGESTED PREREQS: MATH 5523 or MATH 6625 or permission of instructor

MATH 6668 Functional Analysis: 3 semester hours.
Major results of functional analysis, such as the Hahn-Banach, open mapping, and closed graph theorems; study of Hilbert and Banach spaces; spectral analysis. SUGGESTED PREREQS: MATH 5523 or MATH 6625 or permission of instructor

MATH 6671 Topology: 3 semester hours.
Fundamental theorems and examples from point-set topology; emphasis is on general and metric topologies and continuous mappings; introduction to topology of manifolds, covering spaces, homotopy, homology, and cohomology. SUGGESTED PREREQS: MATH 5573 or permission of instructor

MATH 6672 Topology: 3 semester hours.
Fundamental theorems and examples from point-set topology; emphasis is on general and metric topologies and continuous mappings; introduction to topology of manifolds, covering spaces, homotopy, homology, and cohomology. SUGGESTED PREREQS: MATH 5573 or permission of instructor

MATH 6681 Differential Geometry: 3 semester hours.
Differentiable manifolds and mappings; bundles, connections, geodesics, and curvature; Lie groups; topics from Riemannian, Hermitian, or symplectic geometry. SUGGESTED PREREQ: MATH 3327
**MATH 6682 Differential Geometry: 3 semester hours.**
Differentiable manifolds and mappings; bundles, connections, geodesics, and curvature; Lie groups; topics from Riemannian, Hermitian, or symplectic geometry. SUGGESTED PREREQ: MATH 3327

**MATH 6691 Directed Reading: 1-3 semester hour.**
Reading and problems arranged on an individual basis with a faculty supervisor

**MATH 6692 Doctor of Arts Seminar: 2 semester hours.**
Topics include the nature and practice of mathematical research, grants, public speaking, professionalism and classroom related software, information media, issues in mathematical pedagogy, standards, and curricula, university organization, history of mathematics. Graded S/U

**MATH 6693 Mathematical Exposition: 1 semester hour.**
Presentation of mathematics in a seminar setting. Small group practice in and critique of mathematical exposition. Requirements include presentation of a departmental colloquium on an assigned topic. Graded S/U

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**Physics**

Chair and Professor: Khandaker
Professors: Cole, Dale, Shropshire
Associate Professors: Forest, Tatar
Research Associate Professor: Chouffani, Hunt
Assistant Professor: McNulty
Senior Lecturer: Hackworth
Lecturer: Bernabee
Adjunct Faculty: Franckowiak, Hobdey, Hoskins, Millward
Affiliate Faculty: Starovoitova, Wells
Professors Emeritus: Beezhold, Harmon, Parker

**General Objectives of Graduate Programs**

The objectives of our graduate degrees, which are the Doctor of Philosophy in Applied Physics and Master of Science in Physics, are to develop a core competence in the fundamental physical science that is appropriate for the level of the degree, to develop more generalized skills of quantitative reasoning that are applicable to any discipline, and to understand the nature and influence of physics in particular, and science in general, upon our society. Additional objectives for these students include the development of (1) broad, fundamental technical skills and knowledge, (2) strong communication skills, and (3) the capability to think critically and work independently. The expectations for each of these objectives have a "level" that is appropriate for the degree.

The learning objectives of the master's degree in physics are mastery of the "core" subjects of electromagnatism, non-relativistic quantum mechanics, and theoretical methods of classical physics (principally mechanics).

The communication objectives for these degrees are writing and speaking skills that are sufficient for students to represent themselves, their projects, and their organizations at regional, national, or international scientific meetings. Our expectations are that these students will obtain critical thinking skills and an ability to work independently at a level that will require minimal or no supervision by a more senior scientist or management.

The educational objectives of the doctoral degree in applied physics include all of those of the master's degree program, plus mastery of additional graduate-level classes of the student’s choosing, plus completion of an original doctoral research thesis project with the objective of mastery of planning, executing, and publishing original research in physics at the highest level of the discipline. The communication objectives at this level are writing and speaking skills that are sufficient to teach in higher education, attract interest and funding to their projects, and to represent themselves, their projects and their organizations at regional, national, or international scientific meetings. Our expectations are that these students will develop critical thinking skills and an ability to work independently such that they are capable of initiating and leading their own scientific projects, and can work at a level that requires no supervision.

**Doctor of Philosophy in Applied Physics**

**Program Goals**

- Prepare graduates to conduct and disseminate independent scholarly research in applied physics.
- Prepare graduates for careers in academia, industry, or government.

**Program Objectives**

- Increase the knowledge of graduates in their chosen field of applied physics.
- Enhance the ability of graduates to contribute to their chosen field of applied physics.
- Enhance effective written and oral communication skills of graduates.

The Ph.D. program in Applied Physics is an interdisciplinary program offered by the Department of Physics that allows for a broad range of research topics. Areas of emphasis in the department include: nuclear physics applications, radiation effects in materials, accelerator physics and applications, materials science, homeland security applications, and other areas of applied nuclear science.

To attain a degree in this program, a student must demonstrate scholarly achievement and ability for independent investigation. The program will normally require approximately five years of full-time study beyond the bachelor’s degree (or three years beyond the master’s degree), including class work, research, and preparation of the dissertation.

**Admission Requirements**

All applicants must meet Idaho State University Graduate School admission requirements for doctoral programs. In addition, applicants must have attained
a minimum of a bachelor’s degree in physics, or a closely related field (engineering, applied physics, chemistry, etc.). The student’s course of study will be determined by consultation with the department chair or the department’s graduate advising committee. Students may be required to complete any missing course material that is required for the B.S. degree in physics at Idaho State University. Continued enrollment in the program is contingent upon maintaining a 3.0 grade point average, and upon making satisfactory progress toward the degree.

A complete graduate application for classified status in the Idaho State University Physics Department Ph.D. program consists of:

1. GRE scores (normally, a minimum of 50th percentile on verbal, quantitative, or analytical is required for classified students);
2. An Idaho State University Graduate School application form, fee, and official copies of transcripts;
3. Three letters of recommendation;
4. A resume or CV;
5. A statement of career goals.

General Requirements
The Ph.D. degree requires completion of at least 84 credits at the 500-course or greater. Of these, at least 32 credits, but no more than 44 credits, must be doctoral dissertation credits (PHYS 8850 Doctoral Dissertation). At least 4 must be graduate seminar (or equivalent, as determined by the department). The remaining required credits consist of electives and the required courses listed below. Students entering the program with a master’s degree may receive credit for up to 30 credits toward the Ph.D., subject to the department chair’s approval. Students should complete the required courses as listed below (or their equivalent, as determined by the department), at Idaho State University.

Required Courses

<table>
<thead>
<tr>
<th>Physics (or equivalent at other institution)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 6602 Theoretical Methods of Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 6611 Electricity and Magnetism</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 6612 &amp; Advanced Electricity and Magnetism</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 6621 Classical Mechanics</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 6624 Quantum Mechanics</td>
<td>6</td>
</tr>
<tr>
<td>PHYS 6625 &amp; Physics 6625 Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 6649 Graduate Seminar (4 credits total)</td>
<td>1</td>
</tr>
</tbody>
</table>

Program of Study
A departmental advisory committee consisting of graduate faculty will guide each student in establishing his or her program of course and laboratory study based upon the student’s background and research interest. The advisory committee has the responsibility of ensuring that the student has adequate knowledge to support research in his or her area of research.

At the beginning of a full-time student’s second year, the student will sit for a written Qualifying Examination. Exceptions to this schedule may be made when a student has academic deficits to make up, in which case the student will have an additional year. These exams are offered in January and September. The student will be allowed two attempts to pass this examination, and the second attempt must be the next available examination. The student will be admitted to candidacy upon passing the qualifying examination.

A dissertation committee of four departmental members and a Graduate Faculty Representative (GFR), chaired by the candidate’s major professor, must be appointed within six months of passing the qualifying examination. Within one year of passing the qualifying exam, the full-time candidate, with guidance from the major professor, must satisfactorily complete the Preliminary Examination, which consists of an oral presentation and defense of a written proposal for dissertation research to the student’s dissertation committee.

The research and dissertation preparation must be done under the close supervision of the committee and must include at least one full year of work performed under the supervision of a Idaho State University graduate faculty.

Dissertation Examination approval requires a public presentation of the dissertation and a satisfactory oral defense to the dissertation committee. Doctoral oral examinations are open to all regular members of the graduate faculty as observers. Further, oral presentations are open to the public until questioning by the dissertation committee begins.

Doctor of Philosophy in Engineering and Applied Science
A doctoral program in Engineering and Applied Science, administered through the College of Science and Engineering, is available to Physics students. The complete program description is provided elsewhere in the College of Science & Engineering section of the Graduate Catalog.

Master of Science Programs

Admission Requirements
The student must apply to, and meet all criteria for, admission to the Graduate School. In addition to the general requirements of the Graduate School, the student must comply with departmental requirements.

A complete graduate application for classified status in the Idaho State University Physics Department consists of:

1. GRE aptitude scores;
2. An Idaho State University Graduate School Application form, fees, and official copies of transcripts;
3. Three letters of recommendation;
4. A resume or CV;
5. A brief statement of career goals.

Applicants must hold the degree of Bachelor of Science or Bachelor of Arts in Physics, or a closely related field. The student’s course of study will be determined by consultation with the chair and the student’s major advisor. In some circumstances, a placement examination will be given. Students will normally be required to complete as deficiencies any courses required for the B.S. in Physics at Idaho State University which they have not already taken. Continued enrollment in the program is contingent upon maintaining a 3.0 grade point average and upon making satisfactory progress toward the degree.

Master of Science

Thesis Option:
A satisfactory score on physics examination(s) may be required before admission to candidacy. A total of 30 credits are required for the Master of Science Degree.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 6602</td>
<td>Theoretical Methods of Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 6611</td>
<td>Electricity and Magnetism</td>
<td>3</td>
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<tr>
<td>PHYS 6624</td>
<td>Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 6625</td>
<td>Quantum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 6650</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>
A public presentation of the thesis is required, along with a satisfactory oral defense to the thesis committee consisting of two departmental members and one GFR.

**Master of Science**

**Non-Thesis Option:**
There are two mechanisms by which a student may attain a non-thesis M.S. degree. First, students in the Ph.D. program who do not pass the qualifying examination at the Ph.D. level after two attempts may complete a non-thesis M.S. degree. The required core courses for the non-thesis M.S. degree are the same as those for the Ph.D., i.e. those listed above. In addition, a non-thesis M.S. student must pass the qualifying examination at a level appropriate for the M.S., and he or she must complete an oral presentation and defense of a written proposal for research project to the student’s graduate committee.

Second, students in the Ph.D. program who have completed all required courses for the Ph.D. and have passed both their qualifying examination and their oral presentation and defense of a written proposal for research project are eligible for a non-thesis M.S. degree.

**Courses**

**PHYS 5503 Advanced Modern Physics: 3 semester hours.**
Study of the elementary principles of quantum mechanics and an introduction to atomic, solid state and nuclear physics. Quantum mechanics will be used as much as possible. PREREQ: MATH 3360 and PHYS 3301

**PHYS 5504 Advanced Modern Physics: 3 semester hours.**
Study of the elementary principles of quantum mechanics and an introduction to atomic, solid state and nuclear physics. Quantum mechanics will be used as much as possible. PREREQ: PHYS 5503

**PHYS 5505 Advanced Laboratory: 2 semester hours.**
Experiments in radiation detection and measurement, nuclear spectroscopy including x-ray and gamma spectroscopies, neutron activation and ion beam methods. Available to Geology, Engineering, Health Physics, and Physics majors. PREREQ: Permission of instructor

**PHYS 5509 Introductory Nuclear Physics: 3 semester hours.**
A course in Nuclear Physics with emphasis upon structural models, radioactivity, nuclear reactions, fission and fusion. PREREQ: Knowledge of elementary quantum mechanics and differential equations or permission of instructor

**PHYS 5510 Science in American Society: 2 semester hours.**
Observational basis of science; technology's historical influences on scientific developments; perceptions of science in contemporary America; tools/strategies for teaching science. Equivalent to GEOL 5510. PREREQ: Permission of instructor

**PHYS 5514 Electronic Instrumentation and Measurement: 3 semester hours.**
Lecture course with laboratory requirements. Topics include: DC and AC electrical circuits, Analog pulses, Bipolar Transistors, Field Effect Transistors, Operational amplifiers. PREREQ: PHYS 2212, PHYS 2214, and MATH 3360

**PHYS 5515 Statistical Physics: 3 semester hours.**
Topics covered may include kinetic theory, elementary statistical mechanics, random motion and the theory of noise. Choice of topics will depend upon the interest of the students and instructor. PREREQ: PHYS 2212 and MATH 3360

**PHYS 5516 Radiation Detection and Measurement: 3 semester hours.**
Lecture/laboratory course emphasizing practical measurement techniques in nuclear physics. PREREQ: CHEM 1111, CHEM 1111L, CHEM 1112, CHEM 1112L, and either PHYS 1111 and PHYS 1113, or PHYS 2211 and PHYS 2213

**PHYS 5516L Radiation Detect/Measure Lab: 0 semester hours.**

**PHYS 5521 Electricity and Magnetism I: 3 semester hours.**
Intermediate course in fundamental principles of electrical and magnetic theory. Free use will be made of vector analysis and differential equations. PREREQ: PHYS 2212 and MATH 3360

**PHYS 5522 Electricity and Magnetism: 3 semester hours.**
Intermediate course in fundamental principles of electrical and magnetic theory. Free use will be made of vector analysis and differential equations. PREREQ: PHYS 5521

**PHYS 5542 Solid State Physics: 3 semester hours.**
Introduction to the field of solid state physics emphasizing the fundamental concepts. Topics usually covered are crystal structure, X-ray diffraction, crystal binding energies, free electron theory of solids, energy bands. PREREQ: PHYS 3301, PHYS 5583, and MATH 3360 or permission of instructor

**PHYS 5552 Intermediate Optics: 3 semester hours.**
Wave theory, e/m waves, production of light, measurement of light, reflection, refraction, interference, diffraction, polarization, optical systems, matrix methods, Jones vectors, Fourier optics, propagation of e/m waves in materials, atmospheric optics. COREQ: MATH 3360. PREREQ: PHYS 2212

**PHYS 5553 Topics in Astrophysics: 2 semester hours.**
Application of physics to astronomy or cosmology. May include lab exercise. PREREQ: Permission of instructor

**PHYS 5561 Introduction to Mathematical Physics I: 3 semester hours.**
Introduction to the mathematics most commonly used in physics with applications to, and practice in, solving physical problems; includes vector analysis, ordinary and partial differential equations. PREREQ: PHYS 2212 and MATH 3360

**PHYS 5562 Introduction to Mathematical Physics: 3 semester hours.**
Introduction to the mathematics most commonly used in physics with applications to, and practice in, solving physical problems; includes vector analysis, ordinary and partial differential equations. PREREQ: PHYS 5561

**PHYS 5583 Theoretical Mechanics: 4 semester hours.**
Detailed study of the motion of particles, satellites, rigid bodies and oscillating systems. Develop and apply Langrangian and Hamiltonian methods. PREREQ: PHYS 2212 and MATH 3360

**PHYS 5592 Colloquium in Physics: 1 semester hour.**
Faculty and student lectures in current research topics in physics. Offered to upper division and graduate students in physics. May be repeated to a maximum of 4 credits

**PHYS 5597 Professional Education Development Topics: 1-3 semester hour.**
A course for practicing professionals aimed at the development and improvement of skills. May not be applied to graduate degrees. May be repeated. May be graded S/U

**PHYS 5598P Prof Development Workshop: 1-3 semester hour.**

**PHYS 5599 Experimental Course: 1-6 semester hour.**
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated.
PHYS 6602 Theoretical Methods of Physics: 3 semester hours.
Calculus of variations, Lagrangian and Hamiltonian formalisms of classical mechanics, some classical scattering theory, methods of solving PDEs, Green's functions, functions of complex variables, vector and tensor analysis, matrix, group and operator theory, and numerical methods integrated throughout each topic

PHYS 6603 Particle Physics: 3 semester hours.
Basic constituents of the standard model, experimental methods, particle interactions: weak, gravitational, strong and electromagnetic, conservation laws, hadron structure and interactions, unification of interactions, physics beyond the standard model. PREREQ: PHYS 6624 or permission of instructor

PHYS 6609 Advanced Nuclear Physics: 3 semester hours.
Nucleon-nucleon interaction, bulk nuclear structure, microscopic models of nuclear structure, collective models of nuclear structure, nuclear decays and reactions, electromagnetic interactions, weak interactions, strong interactions, nucleon structure, nuclear applications, current topics in nuclear physics. PREREQ: PHYS 6624 or permission of instructor

PHYS 6611 Electricity and Magnetism: 3 semester hours.
Maxwell's equations and methods of solution, plane wave propagation and dispersion, wave guides, antennas and other simple radiating systems, relativistic kinematics and dynamics, classical interaction of charged particles with matter, classical radiation production mechanisms

PHYS 6612 Advanced Electricity and Magnetism: 3 semester hours.
Advanced topics in application of Maxwell's equations to wave guides, antennas and other simple radiating systems. Particular emphasis upon the relativistic interaction of charged particles with matter, energy loss, and classical radiation production and absorption mechanisms. PREREQ: PHYS 6611 or permission of instructor

PHYS 6615 Activation Analysis: 3 semester hours.
Theory and use of neutron activation methods for quantitative chemical analysis of natural and synthetic materials. Applications in geologic systems will be emphasized. PREREQ: Permission of instructor

PHYS 6621 Classical Mechanics: 3 semester hours.
Lagrange equations, small vibrations; Hamilton's canonical equations; Hamilton's principal, least action; contact transformation; Hamilton-Jacobi equation, perturbation theory; nonlinear mechanics. PREREQ: PHYS 5583, PHYS 5561 and PHYS 5562, or permission of instructor

PHYS 6624 Quantum Mechanics: 3 semester hours.
Schrödinger wave equation, stationary state solution; operators and matrices; perturbation theory, non-degenerate and degenerate cases; WKB approximation, non-harmonic oscillator, etc.; collision problems. Born approximation, method of partial waves. PREREQ: PHYS 5561, PHYS 5562, and PHYS 6621 or permission of instructor

PHYS 6625 Quantum Mechanics: 3 semester hours.
Schrödinger wave equation, stationary state solution; operators and matrices; perturbation theory, non-degenerate and degenerate cases; WKB approximation, non-harmonic oscillator, etc.; collision problems. Born approximation, method of partial waves. PREREQ: PHYS 6624 or permission of instructor

PHYS 6626 Advanced Quantum Mechanics: 3 semester hours.
Elementary quantum field theory and practical applications. Emphasis upon non-relativistic and relativistic quantum electrodynamics, radiative processes, bremsstrahlung, pair-production, scattering, photo-electric effect, emission and absorption. PREREQ: PHYS 6625 or permission of instructor

PHYS 6630 Accelerator Physics: 3 semester hours.
The physics of direct voltage accelerators, betatrons, synchrotrons, linear induction acceleration; high current accelerators; electromagnetic particle optics, free electron lasers and synchrotron light sources. PREREQ: PHYS 6612, and PHYS 6624 or equivalent

PHYS 6631 Accelerator Technology: 3 semester hours.
Topics will include high voltage and pulsed power techniques, wave guide and R.F. structures, ion and electron beam sources and beam measurements as applied to particle beam machines. PREREQ: PHYS 6612 or equivalent

PHYS 6632 Particle Beam Laboratory: 1-4 semester hour.
Laboratory projects in particle beam and ion optics, radiation detectors, ion source operation, etc. May be repeated up to 4 credits. PREREQ: Permission of instructor

PHYS 6640 Statistical Mechanics: 3 semester hours.
Statistical ensembles; the Maxwell-Boltzmann law; approach to equilibrium, quantum statistical mechanics; application of statistical mechanics to thermodynamic processes. PREREQ: PHYS 5515 and PHYS 6621

PHYS 6641 Field Theory Particles and Cosmology I: 3 semester hours.
Topics may include Dirac theory, group theory, Feynman diagrams, superstrings, supergravity, relativity and cosmology. PREREQ: Permission of instructor

PHYS 6642 Field Theory Particles and Cosmology II: 3 semester hours.
A continuation of PHYS 6641. Topics may include Dirac theory, group theory, Feynman diagrams, superstrings, super gravity, relativity and cosmology. PREREQ: Permission of instructor

PHYS 6643 Advanced Solid State Physics: 3 semester hours.
Electron many-body problem, crystal and reciprocal lattice, Bloch functions, pseudo potentials, semi-conductors, transition metals, crystal momentum and coordinate representations, electric and magnetic fields, impurities and defects in crystals and semi-conductors, radiation effects on solids, lattice vibrations, electron transport. PREREQ: PHYS 6624 or permission of instructor

PHYS 6648 Special Topics in Physics: 1-3 semester hour.
Survey, seminar, or project (usually at an advanced level) in one area of physics. Content varies depending upon the desires of the students and faculty. May be repeated until 6 credits are earned. PREREQ: Permission of instructor

PHYS 6649 Graduate Seminar: 1 semester hour.
Advanced seminar topics in currently-active areas of applied physics. Students will be required to provide presentations and may be required to submit a paper. Four credits required. May be repeated

PHYS 6650 Thesis: 1-10 semester hour.
Thesis. May be repeated. Graded S/U

PHYS 6699 Experimental Course: 1-6 semester hour.
Survey, seminar, or project (usually at a graduate level) in one area of physics. Content varies depending upon the desires of the students and faculty. May be repeated up to 4 credits. PREREQ: Permission of instructor

PHYS 6665 Laboratory Projects in Quantum Physics: 1-4 semester hour.
Laboratory projects in particle beam and ion optics, ion source operation, R.F. structures, ion and electron beam sources and beam measurements as applied to particle beam machines. PREREQ: PHYS 6612 or equivalent

PHYS 6669 Experimental Course: 1-6 semester hour.
This is an experimental course. The course title and number of credits are noted by course section and announced in the class schedule by the scheduling department. Experimental courses may be offered no more than three times. May be repeated

PHYS 8850 Doctoral Dissertation: 1-12 semester hour.
Research toward and completion of the dissertation. Variable credits. May be repeated. Graded S/U
Graduate Faculty

Idaho State University Graduate Faculty Roster

(NOTE: The date in parentheses is the date of first appointment at Idaho State University. Adjunct, Affiliate and Emeritus Faculty are listed in the Undergraduate Catalog.)


Adams, Rachel, Clinical Assistant Professor, School of Nursing. B.S., 2000, Nursing, Brigham Young University; M.S., 2007, Idaho State University; D.N.P., 2014, Oregon Health and Science University. (2013) (Allied)

Adams, Nicholas A., Assistant Professor, Communication Sciences and Disorders. B.A., 2005, The Ohio State University; M.S., 2010, Indiana University. (2014) (Allied)

Aho, Ken, Assistant Professor, Biological Sciences. B.S., 1995, Idaho State University; Ph.D., 2006, Montana State University; M.S., 2007, Montana State University. (2011)


Altieri, Nicholas A., Assistant Professor, Communication Sciences and Disorders. B.A., 2005, The Ohio State University; M.S., 2010, Indiana University; Ph.D., 2010, Indiana University. (2012)

Aly, Mohamed H., At-Large Graduate Faculty, Geosciences. B.Sc., 1992, Zagazig University, Egypt; M.Sc., 1997, Zagazig University, Egypt; Ph.D., 2006, Texas A&M University. (2006)


Aridson, Cathy R., Associate Professor, Nursing. B.S.N., 1978, Vanderbilt University; M.S.N., 1981, University of Florida; Ph.D., 1990, Texas Woman’s University. (1992)


Attebery, Jennifer Eastman, Professor, English and Philosophy; Department Chair. B.A., 1973, College of Idaho; M.A., 1974; Ph.D., 1985, Indiana University. (1992)

Aubuchon-Endsley, Nicki L., Assistant Professor, Psychology. B.S., 2006, University of Denver; M.S., 2007, Oklahoma State University; Ph.D., 2012, Oklahoma State University. (2014)

Austin, Mark C., Professor, Biological Sciences; Department Chair. B.S., 1981, Pennsylvania State University; Ph.D., 1988, Washington State University. (2012)


Barlow, Fred D. III, At-Large Graduate Faculty, Professor, Electrical Engineering and Computer Science. B.S., 1990, Emory University; M.S., 1994, Virginia Polytechnic Institute; Ph.D., 1999, Virginia Polytechnic Institute.

Baron, Kathleen A., Clinical Assistant Professor, School of Nursing. B.S.N., 2009, Brigham Young University - Idaho; D.N.P., 2013, University of Utah. (2014) (Allied)


Beard, David V., Professor, Computer Science; Department Chair. B.A., 1978, Hope College; M.S., 1983; Ph.D., 1985, University of Michigan. (1995)

Beardner, Shawn, Associate Professor, Biological Sciences. B.S., 1994, University of Virginia; M.S., 1996, George Mason University; Ph.D., 2000, Florida State University. (2004)

Beckmann, Jon, At-Large Graduate Faculty, Biological Sciences. B.S., 1996, Kansas State University; Ph.D., 2002, University of Nevada, Reno. (2005)

Bennett, Byron L., Assistant Professor, Chemistry. B.A., 1989, Cedarville College; Ph.D., 1997, University of Wyoming. (2007)

Bennett, Cory A., Assistant Professor, Education. B.A., 2005, Western Washington University; M.Ed., 2008, University of Hawaii at Manoa; Ph.D., 2010, University of Hawaii at Manoa.

Benson, C. Scott, Jr., Professor, Economics. A.B., 1972, University of California, Berkeley; M.A., 1979; Ph.D., 1988, University of California, Davis. (1986)

Berger, Jacob F., Assistant Professor, Philosophy. B.A., 2005, Swarthmore College; M.Phil., 2010, City University of New York; Ph.D., 2013, City University of New York. (2014)
Berger, Joel. At-Large Graduate Faculty, Biological Sciences. B.A., 1974; M.S., 1975, California State University, Northridge; Ph.D., 1978, University of Colorado, Boulder. (2005)

Bigelow, James. Associate Professor, Biomedical and Pharmaceutical Sciences. B.S., 1979, University of Illinois, Urbana-Champaign; Ph.D., 1985, Indiana University, Bloomington. (2004)

Blanton, Cynthia A.. Assistant Professor, Health and Nutrition Sciences. B.S., 1994, California State University; Northridge; Ph.D., 2000, University of California, Davis. (2007)

Bledsoe, Cristy M.. Clinical Associate Professor, School of Nursing. B.S.N., 1979, Idaho State University; M.S.N., 1982, University of Colorado; Ph.D., 1994, University of Utah. (2013) (Allied)


Bottenberg, H. Carrie. Assistant Lecturer, Geography/German B.A., 1974, Humboldt State University; B.S., 1979, University of Illinois, Urbana-Champaign; Ph.D., 1985, University of Arizona. (1986; Ph.D., 1991, Purdue University. (2004)

Brey, Richard R.. Professor, Nuclear Engineering and Health Physics; Department Chair. B.S., 1988; M.S., 1990; Ph.D., 1994, Purdue University. (1994)


Bunde, Carolyn J. W.. At-Large Graduate Faculty, Biological Sciences. B.S., 1980, California State University, Stanislaus; B.S., 1983; Ph.D., 1987, Idaho State University.


Burgett, Eric A.. Associate Professor, Nuclear Engineering and Health Physics. B.S., 2005; M.S., 2008; Ph.D., 2010 Georgia Institute of Technology. (2010)

Byers, Steven S.. Professor, Finance; Department Chair. B.A., 1982; MBA, 1989, Indiana University; Ph.D., 1996, Texas A&M University. (1996)

Cady, Paul S.. Professor, Pharmacy Practice and Administrative Sciences; Interim Dean, College of Pharmacy, Department Chair. B.S., 1980; M.S., 1986, Ph.D., 1988, University of Arizona. (1990)

Calley, Kristin H.. Associate Professor, Dental Hygiene. B.S., 1988, Idaho State University; M.S., 1993, Old Dominion University. (1992)


Cashmore, Catherine A.. Professor, Pharmacy Practice and Administrative Sciences; Associate Dean. B.A., 1980, University of California, San Diego; M.S. 1984, West Virginia University; Pharm.D., 1993, Idaho State University. (1994)

Casey, Teresa. Assistant Professor, Sociology. B.S., 2002 Oregon State University; Ph.D., 2011 University of California, Davis. (2012)

Castle, Lyle W.. Professor, Chemistry; Dean, Academic Programs, Idaho Falls. B.S., 1985, Southern Utah State College; M.S., 1988, University of Nebraska; Ph.D., 1992, University of South Florida. (1994)


Connelly, John William, Jr., At-Large Graduate Faculty, Biological Sciences. B.S., 1974, University of Idaho; M.S., 1977; Ph.D., 1982, Washington State University.


Creeblem, Jim, Associate Professor, Physical and Occupational Therapy; Department Chair, Doctor of Physical Therapy Program, Program Director. B.S., 1971, U.S. Navel Academy; B.S., 1982, University of Maryland; M.S., 1997, Idaho State University; D.P.T., 2006, University of St. Augustine. (1990)


Croker, Robert E., Emeritus, Professor, Human Resource Training and Development; Department Chair. B.S., 1979, Purdue University; M.S., 1980, Indiana State University; Ed.D., 1986, Washington State University. (1994)


Crosby, Benjamin T., Associate Professor, Geosciences. B.A., 1999, University of California, Berkeley; Ph.D., 2006, Massachusetts Institute of Technology. (2006)

Culbertson, Vaughn L., Professor, Pharmacy Practice and Administrative Sciences. B.S., 1971, University of Nebraska, Lincoln; Pharm.D., 1981, University of Nebraska, Omaha. (1989)


Daniels, Christopher K., Emeritus, Professor, Biomedical and Pharmaceutical Sciences. B.S., 1972, Humboldt State University; M.S., 1975, University of Wisconsin; Ph.D., 1982, Stanford University. (1988)


De Jesus, Karl, Professor, Chemistry. B.Sc., 1977, Texas Christian University; Ph.D., 1986, University of Wisconsin-Madison. (1994)


Denner, Peter R., Professor, School Psychology and Educational Leadership; Associate Dean, College of Education. B.A., 1973, University of New Hampshire; M.S., 1975; Ph.D., 1981, Purdue University. (1982)


Devine, Nancy L., Associate Professor, Physical and Occupational Therapy, School of Rehabilitation and Communication Sciences; Associate Dean. B.S., 1986, University of Vermont; M.S., 1993, Idaho State University; D.P.T., 2006, MGH Institute of Health Professions. (1990)


Diedrich, Dana L., Professor, Biomedical and Pharmaceutical Sciences. B.S., 1969; M.S., 1972, University of Kentucky; Ph.D., 1974, Pennsylvania State University. (1991)

Dienstfrey, Sherri R., Professor, Theatre and Dance. B.S., 1977, University of Nebraska, Lincoln; M.A., 1980, North Dakota State University; Ph.D., 1986, Kent State University. (1987)


DiSanza, James R., Professor, Communication and Rhetorical Studies; Department Chair. B.A., 1982, California State University, Stanislaus; M.A., 1985, San Francisco State University; Ph.D., 1989, Pennsylvania State University. (1989)


Ebrahimpour, Arya, Professor, Civil and Environmental Engineering; Interim Department Chair. B.S., 1981; M.S., 1984; Ph.D., 1987, University of Idaho. (2000)

Ellis, Mikle, Associate Professor, Electrical Engineering. B. E., 1983, Brigham Young University; M.S., 1984, Rensselaer Polytechnic Institute; Ph.D., 1994, Virginia Polytechnic Institute and State University. (1999)

Elshabini, Aicha, At-Large Graduate Faculty, Professor, Electrical Engineering and Computer Science. B.S., 1973, Cairo University; M.S., 1975, University of Toledo; Ph.D., 1978, University of Colorado at Boulder.


Fairholme, Christopher P., Assistant Professor, Psychology. B.S., 2003, Arizona State University; M.A., 2006, Boston University; Ph.D., 2012, Boston University. (2014)

Fan, "Howard" Chung-Hau, Assistant Professor, School Psychology, E.D.S., 2009, University of Iowa; Ph.D., 2011, University of Iowa. (2011)(Allied)


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