It is the policy of Boise State University to provide equal educational and employment opportunities, services, and benefits to students and employees without regard to race, color, national origin, sex, creed, age, or handicap. The university and its divisions reserve the right at any time, without advance notice, to: (a) withdraw or cancel classes, courses, and programs; (b) change fee schedules; (c) change the academic calendar; (d) change admission and registration requirements; (e) change the regulations and requirements governing instruction in, and graduation from, the university and its various divisions; and (f) change any other regulations affecting students. Changes shall go into force whenever the proper authorities so determine, and shall apply not only to prospective students but also to those who are degree-seeking at the time in the university. When economic and other conditions permit, the university tries to provide advance notice of such changes. In particular, when an instructional program is to be withdrawn, the university will make every reasonable effort to ensure that students who are within two years of completing the graduation requirements, and who are making normal progress toward the completion of those requirements, will have the opportunity to complete the program, which is to be withdrawn.

The purpose of the Boise State Catalog is to provide current, articulate and accurate information about Boise State University for guidance of prospective students, for faculty and administrative officers, for students currently enrolled, and for other education or allied agencies.

Boise State University attempts to respond to the educational needs and wants of any and all students when expressed. Requests for courses to be offered whenever they are desired will be favorably received providing that a minimum of 12 qualified students enroll in the class and a competent faculty member is available to teach the course.
The 2018-2019 Free Application for Federal Student Aid (FAFSA) can be submitted beginning today.

The 2018-2019 academic year on-campus housing application is available at noon for residence halls, suites, and townhomes.

Priority date for nonresident scholarships, all admission materials for new and transfer students must be received in Admissions.

Recommended fall priority application deadline for graduate degree-seeking applicants to have all admission materials received by the Graduate College. In order to receive full consideration for fall admission, all applications must be complete and submitted to the Graduate College prior to the fall application deadline established by the individual graduate program.

2018-2019 FAFSA filing priority date for continuing students, new freshmen, and transfer students. Eligible students must apply by this date to maximize the amount of aid you receive. The priority filing date is not a deadline, so you may still submit the FAFSA even if the priority filing date has passed.

Scholarship Priority Date to have all admission materials received in Admissions for new freshman and transfer students to be considered for scholarships for the 2018-2019 year. Last day for the Boise State Scholarship Application (online) to be submitted to the Financial Aid Office. The Boise State Scholarship website contains a list of additional scholarships that require a separate application.

Registration for continuing students begins for Fall 2018 (by appointment).

Last day to submit Application for Admission to Candidacy or Proposed Plan of Study for a Graduate Certificate form to the Graduate College for graduate degrees and certificates to be awarded in December 2018.

Deadline for first-time, degree-seeking, domestic undergraduate students who plan to enroll to submit online Intent to Enroll form and accompanying $100.00 enrollment confirmation.

Priority date for undergraduate, degree-seeking applicants to have all admission materials received by Admissions. Applicants who miss this priority date will be considered for degree-seeking status on a space-available basis. Students who are not eligible for degree-seeking admission may be considered for nondegree-seeking status and are ineligible for financial aid.

Priority date for international student application materials to be received by Admissions for fall semester consideration.

Priority date to submit all financial aid documents to maintain 2018-2019 work-study and supplemental grants (SEOG). Funding for these programs is limited; these awards may be cancelled if documents are not submitted by this date.

First day students can begin using 2018-2019 work-study awards.

First installment of payment plan due for residence halls, suites, and townhomes residents (on-campus housing only).

Recommended date to finalize student course schedules for Fall 2018 for financial aid purposes.

University, college, and department activities for faculty begin this week.

Residence halls, suites, and townhomes resident check-in begins at 8:00 a.m. (in 1.5 hour shifts).
Monday, August 20 ...................................... Course instruction begins.
Friday, August 24 ...................................... Weekend courses begin.
Friday, August 24 ...................................... Last day faculty may submit drops for nonattendance during the first week of the semester to the Registrar’s Office.
Friday, August 24 ...................................... Last day to apply for graduation for graduate and undergraduate degrees and certificates to be awarded in December 2018. Late applications will be accepted but a late fee will be assessed. Students apply for graduation on myBoiseState (https:/ /my.boisestate.edu/).
Friday, August 31 ...................................... Last day to submit Idaho Residency Determination Worksheet with documentation to Registrar’s Office to declare Idaho residency for Fall 2018 consideration.
Friday, August 31 ...................................... Fall financial aid census date. Eligibility for financial aid determined by number of credits registered on this date.
Friday, August 31 ...................................... Last day for students living on campus to change residential meal plans.
Friday, August 31 ...................................... Last day to add graduate dissertation, thesis, project, or portfolio credit.
Monday, September 3 ................................ Labor Day (No classes. University offices closed.)
Friday, September 28 ............................... Last day to add undergraduate internship and independent study.
Friday, September 28 ................................ Last day to add graduate assessment (master's preliminary examination, doctoral preliminary examination, thesis proposal, dissertation proposal, master’s comprehensive examination, doctoral comprehensive examination), directed research, independent study, internship/practicum, or reading and conference.
Monday, October 8 ................................. Columbus Day (Classes in session. University offices open.)
Friday, October 12 ................................. Recommended last day for final oral dissertation, thesis, or project defense for graduate degrees to be awarded in December 2018.
Friday, November 2 ............................... Last day to submit advisor-approved version of dissertation or thesis with signed Final Reading Approval and Access Agreement for a Thesis or Dissertation to the Graduate College for degrees to be awarded in December 2018.
Friday, November 2 ............................... Last day for students who received a thesis or dissertation enrollment waiver to submit final version of thesis or dissertation to the Graduate College.
Monday, November 12 ......................... Veterans Day Observed (Classes in session. University offices open.)
Monday–Sunday, November 19–25 .......... Thanksgiving holiday (No classes. University offices closed November 22-23.)
Friday, December 7 ............................... Last day to submit final version of dissertation or thesis to the Graduate College for graduate degrees to be awarded in December 2018.
Friday, December 7 ............................... Course instruction ends.
Sunday, December 9 ............................. Weekend courses end.
Monday–Friday, December 10–14 ......... Final semester examinations for the Regular session. Exam schedule listed on Registrar’s Office website.
Friday, December 14 ............................. Last day to submit an advisor-approved copy of thesis or dissertation, along with signed Final Reading Approval and Access Agreement for Thesis or Dissertation forms, to the Graduate College to receive a thesis or dissertation enrollment waiver for the subsequent semester.
Saturday, December 15 ....................... Commencement
Saturday, December 15 ....................... Winter break on-campus housing begins for residents with current housing assignment.
Tuesday, December 18 ........................ Grade reports due on myBoiseState (https:/ /my.boisestate.edu/).
Monday–December 24–28 ........................ Holiday Break (University offices closed.)
Monday, December 31 .......................... New Year’s Eve (University offices closed.)
Tuesday, January 1 ............................... New Year’s Day (Observed. University offices closed.)
### Deadlines by Session—Spring 2019

<table>
<thead>
<tr>
<th>Session</th>
<th>Fee Payment Deadline</th>
<th>Start Date</th>
<th>Last Date to Register or Waitlist Without Permission Number</th>
<th>Drop Fee Begins</th>
<th>Last Date to Register or Drop without a W, Refund</th>
<th>Last Date to Drop or Completely Withdraw with a W, No Refund</th>
<th>Last Date of Course Instruction</th>
<th>Grades Due</th>
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</thead>
<tbody>
<tr>
<td>Regular</td>
<td>January 10</td>
<td>January 14</td>
<td>January 18</td>
<td>January 20</td>
<td>January 28</td>
<td>March 25</td>
<td>May 3 (Finals Exams May 6-10)</td>
<td>May 14</td>
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<tr>
<td>1st 5-week</td>
<td>January 10</td>
<td>January 14</td>
<td>January 15</td>
<td>January 18</td>
<td>January 16</td>
<td>February 5</td>
<td>February 15</td>
<td>February 19</td>
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<tr>
<td>2nd 5-week</td>
<td>January 10</td>
<td>February 19</td>
<td>February 20</td>
<td>February 23</td>
<td>February 21</td>
<td>March 13</td>
<td>March 29</td>
<td>April 2</td>
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<tr>
<td>3rd 5-week</td>
<td>January 10</td>
<td>April 1</td>
<td>April 2</td>
<td>April 5</td>
<td>April 3</td>
<td>April 23</td>
<td>May 3</td>
<td>May 14</td>
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<tr>
<td>1st 7-week</td>
<td>January 10</td>
<td>January 14</td>
<td>January 16</td>
<td>January 18</td>
<td>January 17</td>
<td>February 13</td>
<td>March 1</td>
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<td>1st 10-week</td>
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<td>February 24</td>
<td>February 27</td>
<td>April 4</td>
<td>May 3</td>
<td>May 14</td>
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</tbody>
</table>

1. Special Session 1 and Special Session 2 deadlines are available on the Registrar’s Office website.
2. Complete withdrawals on or after this date are subject to a nonrefundable $40.00 processing fee.
3. Last date to add with permission number, last date to drop or completely withdraw with no W and receive a refund (less a nonrefundable $40.00 processing fee), last date to change from credit-to-audit or audit-to-credit.
4. Grades will not be considered official until the end-of-term processing has been completed.

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**Friday, September 14, 2018**
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Recommended spring priority application deadline for graduate degree-seeking applicants to have all admission materials received by the Graduate College. In order to receive full consideration for spring admission, all applications must be complete and submitted to the Graduate College prior to the spring application deadline established by the individual graduate program.

**Monday, October 1, 2018**
---

Recommended last day to submit 2018-2019 FAFSA/FAFSA renewal for Spring 2019 financial aid (if you have not already done so) in order to have aid available to pay spring semester fees.

**Monday, October 1, 2018**
---

Spring scholarship deadline. Last day to have all admission materials received in Admissions for new freshman and transfer students who want to be considered for scholarships for Spring 2019. The 2018-2019 FAFSA must be filed by this date to be considered for need-based scholarships.

**Monday, October 1, 2018**
---

Spring 2019 on-campus housing application available at noon for residence halls, suites and townhomes.

**Monday, October 15, 2018**
---

Priority date for international student application materials to be received by Admissions for spring semester consideration.

**Monday, October 22, 2018**
---

Registration for continuing students begins for Spring 2019 (by appointment).

**Monday, October 29, 2018**
---

Last day to submit Application for Admission to Candidacy or Proposed Plan of Study for a Graduate Certificate form to the Graduate College for graduate degrees and certificates to be awarded in May 2019.

**Thursday, November 15, 2018**
---

Priority date for undergraduate, degree-seeking applicants to have all admission materials received by Admissions. Applicants who miss this priority date will be considered for degree-seeking status on a space-available basis. Students who are not eligible for degree-seeking admission may be considered for nondegree-seeking status and are ineligible for financial aid.

**Saturday, December 1, 2018**
---

Deadline for first-time, degree-seeking, domestic undergraduate students who plan to enroll to submit online Intent to Enroll form and accompanying $100.00 enrollment confirmation.

**Monday, December 31, 2018**
---

Recommended date to finalize student course schedules for Spring 2019 for financial aid purposes.

**Monday, January 7**
---

University, college, and department activities for faculty begin this week.

**Saturday, January 12**
---

Residence halls, suites, and townhomes check-in for new residents begins at noon.

**Monday, January 14**
---

Course instruction begins.

**Friday, January 18**
---

Weekend courses begin.

**Friday, January 18**
---

Last day faculty may submit drops for nonattendance during the first week of the semester to the Registrar’s Office.

**Friday, January 18**
---

Last day to apply for graduation for graduate and undergraduate degrees and certificates to be awarded in May 2019. Late applications will be accepted but a late fee will be assessed. Students apply for graduation on myBoiseState (https://my.boisestate.edu/).

**Monday, January 21**
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Dr. Martin Luther King, Jr. / Idaho Human Rights Day (No classes. University offices closed.)

**Monday, January 28**
---

Last day for students living on campus to change residential meal plans.

**Monday, January 28**
---

Spring financial aid census date. Eligibility for financial aid determined by number of credits registered on this date.

**Monday, January 28**
---

Last day to add graduate dissertation, thesis, project, or portfolio credit.
Monday, January 28 ......................... Last day to submit Idaho Residency Determination Worksheet with documentation to Registrar’s Office to declare Idaho residency for Spring 2019 consideration.
Monday, February 18 ....................... Presidents’ Day (No classes. University offices closed.)
Friday, February 22 ......................... Last day to add undergraduate internship and independent study.
Friday, February 22 ......................... Last day to add graduate assessment (master’s preliminary examination, doctoral preliminary examination, thesis proposal, dissertation proposal, master’s comprehensive examination, doctoral comprehensive examination), directed research, independent study, internship/practicum, or reading and conference.
Friday, March 8 ............................. Recommended last day for final oral dissertation, thesis, or project defense for graduate degrees to be awarded in May 2019.
Friday, March 15 ............................ Last day for students who received a thesis or dissertation enrollment waiver to submit final version of thesis or dissertation to the Graduate College.
Friday, March 15 ............................ Last day to submit advisor-approved version of dissertation or thesis with signed Final Reading Approval and Access Agreement for a Thesis or Dissertation to the Graduate College for degrees to be awarded in May 2019.
Monday–Friday, March 18–22 ............ Spring Break (No Classes. University offices open March 18-22.)
Friday, May 3 ................................. Course instruction ends.
Friday, May 3 ................................. Last day to submit final version of dissertation or thesis to the Graduate College for graduate degrees to be awarded in May 2019.
Sunday, May 5 ............................... Weekend courses end.
Monday–Friday, May 6-10 ............... Final semester examinations for the Regular session. Exam schedule listed on the Registrar’s Office website.
Friday, May 10 .............................. Last day to submit an advisor-approved copy of thesis or dissertation, along with signed Final Reading Approval and Access Agreement for Thesis or Dissertation forms, to the Graduate College to receive a thesis or dissertation enrollment waiver for the subsequent semester.
Saturday, May 11 ........................... Residence halls, suites, and townhomes close at noon.
Saturday, May 11 ........................... Commencement
Tuesday, May 14 ......................... Grade reports due on myBoiseState (https://my.boisestate.edu/).
SUMMER SESSION 2019

Tuesday, February 19 Registration begins for Summer 2019.
Friday, February 26 Last day to submit Application for Admission to Candidacy or Proposed Plan of Study for a Graduate Certificate form to the Graduate College for graduate degrees and certificates to be awarded August 2019.
Monday, March 4 Summer 2019 on-campus housing application available at noon.
Friday, March 8 Recommended last day to submit 2018-2019 Free Application for Federal Student Aid (FAFSA) for consideration for financial aid for Summer 2019.
Wednesday, May 1 Deadline for first-time, degree-seeking, domestic undergraduate students who plan to enroll to submit online Intent to Enroll form and accompanying $100.00 enrollment confirmation.
Wednesday, May 15 Priority date for undergraduate, degree-seeking applicants to have all admission materials received by Admissions. Applicants who miss this priority date will be considered for degree-seeking status on a space available basis. Students who are not eligible for degree-seeking admission may be considered for nondegree-seeking status and are ineligible for financial aid.
Monday, May 27 Memorial Day (No classes. University offices closed.)
Friday, June 7 Last day to apply for graduation for graduate and undergraduate degrees and certificates to be awarded in August 2019. Late applications will be accepted but a late fee will be assessed. Students apply for graduation on myBoiseState (https://my.boisestate.edu/).
Tuesday, June 11 Summer financial aid census date. Eligibility for financial aid determined by number of credits registered on this date.
Friday, June 21 Recommended last day for final oral dissertation, thesis, or project defense for graduate degrees to be awarded in August 2019.
Saturday, June 22 Last day for students to work using 2018-2019 work-study awards.
Monday, June 24 Last day to add undergraduate independent study and internship.
Monday, June 24 Last day to add graduate assessment (master’s preliminary examination, doctoral preliminary examination, thesis proposal, dissertation proposal, master’s comprehensive examination, doctoral comprehensive examination), directed research, independent study, internship/practicum, or reading and conference.
Thursday, July 4 Independence Day. (No classes. University offices closed.)
Friday, July 5 Last day for students who received a thesis or dissertation enrollment waiver to submit final version of thesis or dissertation to the Graduate College.
Friday, July 5 Last day to submit advisor-approved version of dissertation or thesis with signed Final Reading Approval and Access Agreement for a Thesis or Dissertation to the Graduate College for graduate degrees to be awarded in August 2019.
Friday, August 9 Last day to submit final copies of dissertation or thesis to the Graduate College for graduate degrees to be awarded in August 2019.
Saturday, August 17 Summer housing ends. Residents transition to fall housing assignments.
Tuesday, August 20 Grade reports due on myBoiseState (https://my.boisestate.edu/).
The City of Boise

Located along the Boise River in the shadows of the beautiful Rocky Mountain foothills, Boise State University is a vital component of Idaho’s capital city, a hub of business, the arts, health care, industry, technology and the power and politics of the Statehouse.

A 10-minute stroll from campus puts you downtown, where businesses cater to the college crowd, making it easy to take advantage of coffeehouses, restaurants, dance clubs and the city’s thriving cultural and entertainment scene. Even with big city amenities, Boise offers a safe, small-town feel and has repeatedly been named in the Top 10 for business, lifestyle and great outdoor recreation.

The City of Trees offers many unique attractions, including the Basque Museum and Cultural Center, Idaho Anne Frank Human Rights Memorial, the Idaho Shakespeare Festival, the World Center for Birds of Prey and a whitewater park on the Boise River.

The Boise Greenbelt, a more than 20-mile network of city parks and riverside paths, skirts the edge of campus. A footbridge spans the Boise River, linking Boise State to Julia Davis Park, home of the Boise Art Museum, Idaho State Museum, Idaho Black History Museum and Zoo Boise.

Beyond the city is a land of great variety. To the south are rich farmlands, a rugged, high-mountain desert, North America’s tallest sand dunes and the famous Snake River Birds of Prey National Conservation Area. To the north, forests, whitewater rivers and mountain lakes provide opportunities for fishing, hiking, hunting and kayaking. Bogus Basin ski resort is just 16 miles from campus and world-famous Sun Valley is less than three hours away.

Campus entertainment includes Idaho Dance Theatre, Opera Idaho, Ballet Idaho, the Gene Harris Jazz Festival, Boise Philharmonic and a variety of other university and civic performing arts groups. Nationally renowned artists and touring companies like Elton John, Jimmy Buffet, Cirque du Soleil and Wicked frequently perform in the Morrison Center for the Performing Arts and Taco Bell Arena on campus. In addition, Taco Bell Arena hosts a number of campus and national sporting events.

The University’s Environment

Long heralded as an institution devoted to excellence in classroom teaching, the university is stretching beyond its regional roots and extending its academic and athletic influence to a national level. It is also deepening partnerships and relationships close to home where it serves as an urban university dedicated to the research and student experiences that drive economic development and contribute to a vibrant and healthy community.

Boise State has a dynamic graduate and nontraditional student population. Master’s and doctoral programs are offered in disciplines ranging from anthropology and geophysics to nursing and social work, with much more in between. These programs include everything from practice-oriented master’s programs that prepare students for leadership roles to research-focused PhD programs that develop the next generation of scholars.

Today the breadth of programs and services Boise State offers, combined with its unique location, make it one of the nation’s best places to live and learn. The university has academic programs in eight academic colleges and one school—Arts and Sciences, Business and Economics, Education, Engineering, Health Sciences, Innovation and Design, School of Public Service, Graduate Studies and Honors—with a full-time faculty of more than 600.

Mission and Core Themes

Boise State University is a public, metropolitan research university providing leadership in academics, research and civic engagement. The university offers an array of undergraduate degrees and experiences that foster student success, lifelong learning, community engagement, innovation and creativity. Research, creative activity and graduate programs, including select doctoral degrees, advance new knowledge and benefit the community, the state and the nation. The university is an integral part of its metropolitan environment and is engaged in its economic vitality, policy issues, professional and continuing education programming, and cultural enrichment.

Our mission is further elaborated by our Core Themes: Undergraduate Education, Graduate Education, Research and Creative Activity, and Community Commitment. Each is further expanded upon by four Core Objectives focused on i) Access and Completion, ii) Relevance, iii) Quality, and iv) Culture (See https://academics.boisestate.edu/strategic-plan/core-themes/). Our Core Themes are as follows:

Undergraduate Education: Our university provides access to high quality undergraduate education that cultivates the personal and professional growth of our students and meets the educational needs of our community, state, and nation. We engage our students and focus on their success.

Graduate Education: Our university provides access to graduate education that addresses the needs of our region, is meaningful in a global context, is respected for its high quality, and is delivered within a supportive graduate culture.

Research and Creative Activity: Through our endeavors in basic and applied research and in creative activity, our researchers, artists, and students create knowledge and understanding of our world and of ourselves, and transfer that knowledge to provide societal, economic, and cultural benefits. Students are integral to our faculty research and creative activity.

Community Commitment: The university is a vital part of the community, and our commitment to the community extends beyond our educational programs, research, and creative activity. We collaborate in the development of partnerships that address community and university issues. The community and university share knowledge and expertise with each other. We look to the community to inform our goals, actions, and measures of success. We work with the community to create a rich mix of culture, learning experiences, and entertainment, so that we can educate and enrich the lives of our citizens. Our campus culture and climate promote civility, inclusivity and collegiality.

Vision and Strategic Plan

Boise State University strives to be known not only for the region’s finest undergraduate education, but also for outstanding research and graduate programs. With its exceptional faculty, staff, students and location, Boise State is an engine that drives the Idaho economy, providing significant return on public investment.

To achieve this vision, the university developed the goals and strategies of our strategic plan, Focus on Effectiveness 2012-2018. The goals and strategies are:

Goal 1: Create a signature, high-quality educational experience for all students.

- Objective A: Develop the University Foundations Program into a memorable centerpiece of the undergraduate experience.
- Objective B: Provide a relevant, impactful educational experience that includes opportunities within and across disciplines for experiential learning.
- Objective C: Cultivate intellectual community among students and faculty and facilitate respect for the diversity of human cultures, institutions, and experiences.

Goal 2: Facilitate the timely attainment of educational goals of our diverse student population.

- Objective A: Design and implement innovative policies and procedures that remove barriers to graduation and facilitate student success.
- Objective B: Ensure that faculty and staff understand their responsibilities in facilitating student success.
- Objective C: Bring classes to students using advanced technologies and multiple delivery formats.

Goal 3: Gain distinction as a doctoral research university.

- Objective A: Build infrastructure for research and creative activity; support and reward interdisciplinary collaboration; and recruit, retain, and support highly qualified faculty, staff, and students from diverse backgrounds.
**Goal 4: Align university programs and activities with community needs.**
- Objective A: Include community impact in the creation and assessment of university programs and activities.
- Objective B: Increase student recruitment, retention, and graduation in STEM disciplines.
- Objective C: Collaborate with external partners to increase Idaho student’s readiness for and enrollment in higher education.
- Objective D: Leverage knowledge and expertise within the community to develop mutually beneficial partnerships. Evaluate our institutional impact and effectiveness on a regular basis and publicize results.

**Goal 5: Transform our operations to serve the contemporary mission of the university.**
- Objective A: Increase organizational effectiveness by reinventing our business practices, simplifying or eliminating policies, investing in faculty and staff, breaking down silos, and using reliable data to inform decision-making.
- Objective B: Diversify sources of funding and allocate resources strategically to promote innovation, effectiveness, and responsible risk-taking.

Our strategic plan is built around four solid pillars of growth and responsibility:

**Local and Global Impact:** Boise State fuels a robust regional economy and contributes to a vibrant and healthy community by focusing on societal and economic needs. Graduates can rely on skills, knowledge and experience that are relevant and valuable locally, regionally, nationally and globally.

**Student Success and Engagement:** The university reflects a rich and diverse culture that is student centered, enabling them to focus on success and the achievement of educational goals. Graduates are prepared to meet the challenges and pursue the opportunities of today and tomorrow, while developing an enduring bond with the university.

**Visionary Relationships:** Strong campus/community relationships create synergistic opportunities that enable the university to explore new possibilities, address complex problems, break down barriers, and create learning experiences that synthesize ideas and practices across multiple perspectives.

**Organizational Effectiveness:** Boise State pursues innovative, broad-based funding models to ensure sustainable acquisition of resources and garner support from stakeholders by explicitly demonstrating return on investment.

### The University’s History

In 1932, the Episcopal Church founded Boise Junior College, the first post-secondary school in Idaho’s capital city. When the Episcopal Church discontinued its sponsorship in 1934, Boise Junior College became a nonprofit, private corporation sponsored by the Boise Chamber of Commerce and the community. In 1939, the State Legislature created a junior-college taxing district to fund the quickly growing institution.

By the end of the 1930s, Boise Junior College boasted an enrollment of 600 students. Originally located at St. Margaret’s Hall near the present site of St. Luke’s Regional Medical Center, the college was moved in 1940 to its present location alongside the Boise River. In 1965, Boise Junior College became a four-year institution and was renamed Boise College. In 1969, the college was brought into the state system of higher education as Boise State College. The Graduate College was established in 1971 and the creation of new graduate programs in 1974 led to the designation of the institution as Boise State University.

Boise State is the largest institution of higher education in Idaho with more than 22,000 students. The school is in the midst of a transformation that nurtures its traditional strengths while expanding its capabilities in research and scholarly activity. This is not a revolution, but instead an evolution that reflects the integral part Boise State plays in contributing to the quality of life in the Treasure Valley and beyond.


### Accreditation

Boise State University is accredited by the Northwest Commission on Colleges and Universities (NWCCU).

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial, but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution’s accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the Office of the Provost. Individuals may also contact: Northwest Commission on Colleges and Universities, 8060 165th Avenue N.E., Suite 100, Redmond, WA 98052, (425) 558-4224, [http://www.nwccu.org/](http://www.nwccu.org/).

Many of Boise State University’s academic programs have special accreditation or endorsement from one or more of the following organizations:

- ABET, Inc.
- American Chemical Society
- American Council for Construction Education
- American Health Information Management Association
- Association to Advance Collegiate Schools of Business-International
- Commission on Accreditation of Allied Health Education Programs
- Committee on Accreditation of Athletic Training Education
- Committee on Accreditation for Respiratory Care
- Commission on Collegiate Nursing Education (CCNE)
- Council for Accreditation of Counseling and Related Educational Programs
- Council on Social Work Education
- Joint Review Committee on Education in Radiologic Technology
- National Association of Schools of Art and Design
- National Association of Schools of Music
- National Association of Schools of Public Affairs and Administration
- National Association of Schools of Theater
- National Association of State Directors of Teacher Education and Certification
- National Council for Accreditation of Teacher Education
- National Environmental Health Science and Protection Accreditation Council
- Society for Simulation in Healthcare (SSH)
State Authorization and Distance Education Beyond Idaho

Boise State University delivers online education programs and courses throughout the United States and internationally and online offerings continue to expand. Idaho's State Board of Education has approved all programs.

Due in part to the increased popularity of distance education, many states have prescribed an “authorization” process for out-of-state institutions delivering online programs to its state residents. Through such proactive processes, states are striving to ensure quality post-secondary education, to preserve the integrity of an academic degree and to instill greater consumer protection for its citizens.

Authorization (sometimes referred to as “registration,” “licensure,” “approval,” etc.) indicates that the institution has met certain minimum standards under the laws and regulations of that state. Authorization does not constitute an endorsement of any institution, course or degree program. Credits earned at an institution may not transfer to all other institutions.

Boise State has taken steps to protect its students and operations through nationwide compliance and currently participates in a voluntary State Authorization Reciprocity Agreement (SARA) encompassing all states except California and Massachusetts. Boise State can operate without state authorization in California because it is a public accredited institution and in Massachusetts due to the nature of its activities within that state.

Individuals considering a course or program in preparation for professional licensing or certification outside Idaho are encouraged to seek guidance from the pertinent licensing agency in that state in advance of application and periodically thereafter.

Some online programs may not be available in some states or may not be designed to prepare a student for professional licensure. Please contact the academic department before submitting an application. More specific information about program availability and professional licensure can be found at: [https://online.boisestate.edu/](https://online.boisestate.edu/).

Students and Faculty

Students come to Boise State University from every county in Idaho, from nearly every state in the nation, and from numerous foreign countries. The university's urban setting attracts and complements this diverse student body, which includes many nontraditional students, as well as those enrolling directly from high school.

At Boise State, students can study public health, raptor research, musical performance, educational technology, hydrologic sciences, civil engineering or close to 200 other topics. The university offers 11 doctoral degrees, 68 master's degrees, 24 graduate certificates, 90 bachelor's degrees, 4 associate degrees, and 37 undergraduate certificates.

Thanks to Boise State's location in the heart of Idaho's largest and most vibrant city, it affords experiences and opportunities reaching beyond the classroom that are unavailable elsewhere in the state. For instance, students can enhance classroom learning and gain valuable work experience by interning with the state Legislature, government agencies, or one of the many private businesses or industries in the area. They also can study abroad in more than 50 countries.

Boise State faculty members are dedicated to excellence in teaching, research and creative activity. Students have the opportunity to work with and study under some of the West's and region's most respected scientists, artists, researchers and educators.

In addition to helping students learn, faculty members are generous in using their expertise to help solve society's problems. They assist business, industry, educational institutions, government agencies and professional groups with educational programs and research-and-development efforts. The university also works with a variety of organizations in creating and implementing programs to upgrade the knowledge and skills of their employees.

A Tour of the Campus

Boise State University's 216-acre main campus is bordered to the north by the Boise River, to the east by Broadway Avenue, to the west by Capitol Boulevard and to the south by Beacon Street with University Drive as the primary artery. Step across the footbridge spanning the Boise River, and you are in the open green space of Julia Davis Park.

On campus, the Administration Building contains the offices of several student services, including Financial Aid and the Registrar. University Health Services— including all medical, counseling, and wellness—are integrated under one roof in the Norco Nursing and Health Sciences Building. The Advising and Academic Support Center and the Testing Center are located together in the Simplot/Micron Advising and Success Hub.

Classes are held in a number of buildings, including the Bronco Gym and Department of Kinesiology Building, Micron Business and Economics Building (which houses a financial trading room and a student commons area), Campus School, Education Building, Charles P. Ruch Engineering Building, Fine Arts Building, Liberal Arts Building, Mathematics Building, Micron Engineering Center, Morrison Civil Engineering Building and the Multipurpose Classroom Building. The Interactive Learning Center supports the latest in technology with 12 general-use classrooms, multimedia labs, and a classroom for research and innovation. It also is home to the Center for Teaching and Learning.

Other notable campus features include the Albertsons Library, as well as the Centennial Amphitheatre—an outdoor venue for lectures, concerts and plays. The Velma V. Morrison Center for the Performing Arts houses the Department of Music, the Department of Theatre, Film, and Creative Writing, a 2,000-seat performance hall, a 200-seat recital hall and a 200-seat theater. The Student Recreation Center houses informal recreation, intramural sports, outdoor programs, fitness opportunities, a wellness center and athletic training facilities. The facility boasts a 17,000-square-foot Aquatics Center.

Boise State students also enjoy the Student Union, which provides facilities for social, recreational and cultural activities. In addition to dining areas, the Student Union contains a bowling alley and games center, several lounges, the Boise State Bookstore and the Bronco Shop. While at the Student Union, you can stop by the Information Desk to pick up tickets for campus programs and community events, or visit the offices of more than 200 recognized student organizations. Admissions is located on the first floor. The west entrance and Transit Center is a spacious and furnished entry to the Student Union where patrons can wait inside or outside for shuttles and public transportation that stop in front of the open sidewalk area.

Taco Bell Arena is Idaho's largest multipurpose arena. When not filled with fans of Bronco basketball or gymnastics, Taco Bell Arena is the site of concerts, professional sporting events and family entertainment. Nearby is Albertsons Stadium, with a seating capacity of 36,387 and the university's iconic blue playing field.
The Albertsons Library

Dean: Tracy Bicknell-Holmes
Associate Dean: TBD
(208) 426-1234 (phone)

Albertsons Library is a vibrant hub of academic activity in the center of campus, providing access to an extensive array of online journals, databases, newspapers, books, e-books, and resources for research and learning, including numerous discipline-specific and specialty databases, U.S. government documents and maps, for more information, see https://library.boisestate.edu.

You have access to all library online resources both on and off campus. If the library does not have what you need, it may be borrowed for you from other libraries through a service called Interlibrary Loan. Albertsons Library offers a host of other materials for checkout including laptops, iPads, cables, adaptors, audiovisual equipment and technology such as Raspberry PI, Arduinos and Makey Makeys. If your mobile device battery is running low, the library has an array of charging devices.

Study spaces for individuals and groups are available throughout the library. There's also a room dedicated to sound recording and editing, and a video production studio with green screen technology. As the largest computer lab on campus with the longest hours, there are over 120 desktop computers (Mac and PC) and a variety of printers, including a plotter printer for printing large scale items such as presentation posters.

In the library’s MakerLab, students can use 3D printers, a CNC milling machine, vinyl cutter, sewing machines, and other technology https://makerlab.boisestate.edu/. Workshops are offered regularly to teach you how to get started in 3D modeling and more. The MakerLab is a hangout if you are interested in technology and home to the student Creative Technology Association.

Special Collections and Archives (SCA) contains manuscripts, rare books, Basque studies material, and the university archives https://archives.boisestate.edu/. Selected unique resources from these collections are being digitized and made available online. SCA houses the papers of Senator Len B. Jordan, Senator Frank Church, and Interior Secretary/Governor Cecil D. Andrus, and the Cecil D. Andrus and Frank Church rooms. Nearby, the Warren McCain Reading Room contains a growing collection of books and materials about the literature, anthropology and history of the American West and the Westward Movement.

Library faculty (librarians) provide assistance and research guidance in person, and online via text, chat and email. Schedule an individual research consultations to help you start a thesis or dissertation, or invite them into the classroom to support class assignments and research. Librarians are subject experts who can help you craft effective research assignments, and they welcome opportunities to come to your class to help you in your pursuit of a degree.

Technology Resources

Public computers and kiosks are located in most campus locations where students attend class and congregate, and provide access to a wide variety of software on Windows and Mac computers.

BroncoPrint copy, print, and scan stations are available throughout campus. You will also have the option to install wireless printing software to wirelessly print to these stations from mobile devices.

In addition, laptops, tablets, and audio recording devices are available for you to check out from Zone locations in the Student Union Building and Interactive Learning Center. These Zone locations also provide free concierge support and assistance for personal computers, hardware, and software. For more information, see https://www.boisestate.edu/oit.

Boise State University provides G Suite (Google Apps) accounts for all students, including BroncoMail Gmail accounts.

Athletics

The purpose of the intercollegiate athletic program at Boise State University is twofold. First, to provide opportunities for a meaningful academic and athletic experience for as many students as possible. Second, to develop and maintain a competitive Division I athletic program that competes on a regional and national basis and strives for excellence in both men’s and women’s athletics within the boundaries of integrity and honesty.

The athletic program is an integral part of the university and its total educational purpose. The objectives of the athletic program are in harmony with the mission and role of the university.

The university adheres to the principles of fair play and amateur athletic competition as defined by the NCAA. The university is concerned with the welfare of the student-athlete and strives to ensure that every student-athlete has the opportunity to succeed academically and obtain a degree.

The university competes as a member of the Mountain Western Conference (MWC) in football, men's and women's basketball, golf, tennis, indoor and outdoor track and field and cross country, soccer, softball, swimming and diving, and volleyball. The university competes in the Mountain Rim Gymnastics Conference in women's gymnastics. Students who wish to participate in intercollegiate athletics should contact the assistant coach of the sport for which they wish to participate. If the program does not have an assistant coach, please contact the head coach. A listing of coaches is provided on the athletic department website at https://www.broncosports.com/.

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

Questions About Boise State?

- 1-800-632-6586 (toll-free in Idaho)
- 1-800-824-7017 (toll-free nationwide)
College of Arts and Sciences
Interim Dean: Leslie Durham, PhD
Associate Dean: Doug Bullock, PhD
Interim Associate Dean: Kathleen Keys, PhD
Associate Dean: Clyde J. Northrup, PhD
Education Building, 6th Floor, Room 601
(208) 426-1414 (phone)
(208) 426-3006 (fax)

General Information
The College of Arts and Sciences offers graduate programs leading to doctoral and master's degrees and graduate certificates in more than thirty fields. Across these rich and diverse programs, the college is committed to providing students with an outstanding graduate education. Through classroom experiences; research, performance, and exhibition opportunities; community outreach and engagement; and close collaboration with internationally recognized experts in their fields, our students hone their burgeoning abilities to seek knowledge, express ideas, and create work that will impact their academic disciplines, their professions, and the communities with which they are connected for generations to come. Students receive individual mentorship from a faculty advisor and gain additional guidance and broader perspective through interactions with their supervisory committee. Furthermore, students are enhanced both personally and professionally through immersion in the strong graduate culture of the College of Arts and Sciences and by sharing valuable experiences with their graduate student colleagues. Detailed information about each program, including its admission requirements and procedures, may be obtained directly from its managing academic department (as listed in this catalog).

College of Business and Economics
Interim Dean: Mark Bannister, PhD
Micron Business and Economics Building, Room 3138
(208) 426-1125 (phone)

Associate Dean, Faculty and Administrative Affairs: Diane Schooley-Pettis, PhD
Micron Business and Economics Building, Room 3140
(208) 426-3110 (phone)

Associate Dean, Academic Programs: Zeynep Hansen, PhD
Micron Business and Economics Building, Room 3136
(208) 426-3314 (phone)

Director, COBE Student Services Center: Matt Steuart
Micron Business and Economics Building, Room 1123
(208) 426-3859 (phone)

Director, COBE Career Services Center: Laura Chiuppi
Micron Business and Economics Building, Room 1213
(208) 426-3862 (phone)
https://cobe.boisestate.edu/ (website)

General Information
The College of Business and Economics at Boise State University offers graduate programs in accountancy, accountancy in taxation, business administration, and economics through its five academic departments:
- Accountancy
- Economics
- Information Technology and Supply Chain Management
- Management
- Marketing and Finance
All of our graduate programs are accredited by AACSB International—The gold standard for business schools. Only one-quarter of the 1,200 institutions in the U.S. that grant business degrees have achieved that level of recognition. Our accountancy programs are independently accredited by AACSB International and one of only about 14% of U.S. accounting programs to achieve this recognition.

College of Education
Dean: Richard Osguthorpe, PhD
Education Building, 7th Floor, Room 704
(208) 426-1611 (phone)
(208) 426-4408 (fax)
richard osguthorpe@boisestate.edu (email)

Associate Dean for Teacher Education: Jennifer Snow, PhD
Education Building, 7th Floor, Room 706
(208) 426-1991 (phone)
jennifersnow@boisestate.edu (email)

Associate Dean for Research and Advanced Programs, Keith Thiede, PhD
Education Building, 7th Floor, Room 705
(208) 426-1278 (phone)
keiththiede@boisestate.edu (email)
https://education.boisestate.edu/ (website)

General Information
The College of Education is composed of five academic departments offering 2 doctoral degrees, 2 education specialist degrees, 12 masters degrees and 11 graduate certificates.
College of Engineering

Dean: JoAnn S. Lighty, PhD
1015 Grant Avenue, 2nd Floor
(208) 426-4844 (phone)
(208) 426-4466 (fax)

Associate Dean for Undergraduate Studies: Sondra M. Miller, PhD, PE
(208) 426-2894 (phone)
sondramiller1@boisestate.edu (email)

Assistant Dean for Undergraduate Affairs: Diana Garza
(208) 426-2685 (phone)
dianagarza@boisestate.edu (email)

Associate Dean for Graduate Studies: Maria Mitkova, PhD
(208) 426-1637 (phone)
mariamitkova@boisestate.edu (email)

Assistant Dean for Research and Infrastructure: Rex Oxford
(208) 426-5744 (phone)
roxford@boisestate.edu (email)

https://coen.boisestate.edu/ (website)

General Information

There are six departments that grant graduate degrees in the College of Engineering at Boise State University: Civil Engineering, Computer Science, Electrical and Computer Engineering, Mechanical and Biomedical Engineering, Micron School of Materials Science and Engineering, and Organizational Performance and Workplace Learning. These departments serve the mission of the College of Engineering by providing accessible, high-quality, nationally recognized programs of instruction, research, and service that prepare students for engineering and other high technology careers, and that support individuals and organizations in Idaho, the Northwest region, and beyond.

The graduate programs in the College of Engineering are offered in a variety of degree options and delivery methods to accommodate student interests and career needs. The Doctor of Philosophy degrees in Computing, Electrical and Computer Engineering, and Materials Science and Engineering provide students an opportunity to advance their scientific knowledge, make significant technical contributions to the field and promote their career opportunities within academia or industry/governmental research and development facilities. The Master of Science degrees in Civil Engineering, Electrical and Computer Engineering, Mechanical Engineering and Materials Science and Engineering, are thesis-based programs designed to prepare students for careers that involve a research component in their field. The Master of Engineering degrees are non-thesis programs that may be satisfied by an approved selection of coursework and culminating activities. A number of graduate level courses are available in an online delivery format. The Master of Science in Computer Science offers both a thesis and project option. The Master of Science in Organizational Performance and Workplace Learning offers both thesis and portfolio options and is delivered entirely online.

The graduate faculty members in the College of Engineering are active in their academic and research fields, in their professional societies, and are dedicated to providing the highest quality instruction possible. The research facilities available to graduate students pursuing a degree include a variety of equipment housed in a number of different facilities such as the Center for Materials Characterization, the Idaho Microfabrication Laboratory, the Center for Advanced Energy Studies, the Supercomputing, Visualization and Big Data Facility, Harry Morrison Civil Engineering Laboratory, Nanoscale Materials and Device Laboratory, Northwest Tissue Mechanics Laboratory, the iPerf Laboratory, the Beowulf Cluster Laboratory, and others.

Mission

Through an unshakable focus on student learning, we provide accessible, exceptional-quality, nationally recognized programs of instruction, research and service that prepare students for engineering and other high technology careers. We foster innovative research and practical solutions that support individuals and organizations in Idaho, the Northwest region, and beyond.

College of Health Sciences

Dean: Tim Dunnagan, EdD

Associate Dean: Joelle Powers, PhD
Norco Nursing and Health Sciences Building, Room 408
(208) 426-4150 (phone)
(208) 426-3469 (fax)

Interim Director, School of Allied Health Sciences: Joelle Powers, PhD
Norco Nursing and Health Sciences Building, Room 408
(208) 426-3795 (phone)
(208) 426-3929 (fax)

Director, School of Nursing: Ann Hubbert, PhD
Norco Nursing and Health Sciences Building, Room 433B
(208) 426-3404 (phone)
(208) 426-1370 (fax)

Director, School of Social Work: Randy Magen, PhD
Education Building, Room 717
(208) 426-1568 (phone)
(208) 426-4291 (fax)

https://hs.boisestate.edu/ (website)

General Information

As the university's academic unit dedicated to producing leaders in health innovation and discovery, the College of Health Sciences actively engages in its mission to foster partnerships that promote health and quality of life through teaching, research, and service. In teaching and research, the College of Health Sciences offers a graduate curriculum that prepares students to become researchers and leaders who will develop and apply innovative solutions to promote health and quality of life. In service, the college actively engages in developing dynamic community partnerships that enrich and enhance health-related research, teaching and learning, advocacy, and outreach.

To create synergies in the college and across campus, the College of Health Sciences is configured into three Schools: Allied Health Sciences, Nursing, and Social Work. University Health Services is also housed in the college and complements the schools by providing integrated care, teaching, and research to the campus community. While the Schools of Nursing and Social Work provide graduate programs related to their respective disciplines, the School of Allied Health Sciences is characterized by its diversity as it houses four departments: Community and Environmental Health, Kinesiology, Radiologic Sciences, and Respiratory Care. Graduate programs are offered in two of these departments, Community and Environmental Health and Kinesiology.
College of Innovation and Design

Dean: Gordon Jones
Albertsons Library, Room 201
(208) 426-2975 (phone)
cid@boisestate.edu (email)
https://cid.boisestate.edu/ (website)

General Information
The College of Innovation and Design (CI+D) is a university-wide hub focused on transforming teaching, learning, and research at Boise State. Leveraging the speed, collaboration, and risk-taking of a start-up, the college inspires and supports faculty, students and community members from diverse disciplines to create new pathways of learning that anticipate the demands and opportunities of our ever-changing world and workplace.

Approach to Learning
The College of Innovation and Design serves as an academic laboratory where faculty and students from across the university can share ideas for redesigning learning strategies, research methods, and degrees. Our structure is multifaceted. Through a combination of majors, certificates, badges, and programs, we offer a framework of learning that allows for divergent thinking. CID features a learning platform focused on both finding problems and then creating solutions, and it utilizes new methodologies to increase the analytic capacity of its students. The college goal is to produce graduates who have an interdisciplinary command of the world and who are not constrained in their ability to learn beyond one field of expertise.

Community Partnership
The College of Innovation and Design also plays an important role in how Boise State serves university partners in the community. Because requests for the research expertise of Boise State faculty, students, and staff seldom fall neatly in the jurisdiction of one department or college, we facilitate interdisciplinary collaboration to meet the needs of our community partners. Our focus is placed on opportunity-finding, idea creation, and problem-solving that focuses on the change management process in organizations.

Graduate Programs
The College of Innovation and Design offers a variety of programs from interdisciplinary academic research teams to venture incubators:
• **HBX CORe Immersion at Boise State** An immersive 9-credit program where students learn financial accounting, business analytics, and economics for managers and earn the Credential of Readiness from HBX and Harvard Business School.
• **Human Environment Systems Group** A research community emphasizing the application of quantitative approaches that answer complex social, scientific, and engineering questions about systems in which humans and the natural environment interact.
• **Venture College** A co-curricular learning environment that provides students access to expertise, workshops, and a full business incubator so students can take their own ideas and projects and turn them into ventures.
• **Vertically Integrated Projects** A program offering large-scale research projects that are both multidisciplinary and multi-year, focusing on challenging, real-world problems and enabling undergraduate teams to work together with faculty and graduate students in a way that benefits everyone.

School of Public Service

Dean: Corey Cook, PhD
Associate Dean: Andrew Giacomazzi, PhD

Education Building, 7th Floor
(208) 426-1368 (phone)
schoolofpublicservice@boisestate.edu (email)
https://sps.boisestate.edu/ (website)

General Information
Boise State University's School of Public Service is dedicated to excellence in innovative teaching, cutting edge scholarship and meaningful community outreach, serving the State of Idaho, region, nation and global communities. The School is comprised of rich and diverse academic programs, including Criminal Justice (MA), Political Science (MA), and Public Policy and Administration (MPA, PhD), as well as talented affiliated faculty from departments and programs across the university. The mission of the School is supported by a variety of centers and institutes that facilitate research and public engagement, including the Andrus Center, the Conflict Management Program, Center for Idaho History and Politics, Energy Policy Institute, Frank Church Institute, and Idaho Policy Institute.

Together, these complementary academic programs, centers and institutes strive to achieve local relevance with theoretical and applied research, as well as outreach provided to communities, local governments and businesses. National recognition is achieved with innovative and relevant scholarship that enriches our society.

The school prepares students, public servants, and leaders to think both regionally and globally in an interdependent world. As such, it serves as a centralized resource for policy makers—to assist them in making informed decisions—and for faculty and students to actively connect and engage with the community and participate in policy decisions.

The bridging of disciplines across the university and the larger community enhances the education of students, allowing them to apply their knowledge and skills to the critical challenges facing the public, private and nonprofit sectors. Empirical and applied research and the production of new knowledge are central to the mission. Faculty, staff and students make important contributions that balance theory and practice across diverse areas of contemporary scholarship, including the following:
• Democratic and Collaborative Governance in the New American West
• Policy Analysis
• Regional Planning and Development
• Sustainability
• Systems of Law and Justice

The school uses analytical methods to create and disseminate knowledge highly valued by a variety of consumers of research, including policy makers and leaders in the public, nonprofit and business worlds.

Finally, the School of Public Service's transdisciplinary approach to knowledge seeks to provide professional expertise and promote public discourse and engagement across groups to produce innovative solutions to pressing and complex political, governmental, social, economic and environmental concerns.
AN INTRODUCTION TO BOISE STATE

Graduate College
Dean: Tammi Vacha-Haase, PhD
Associate Dean: Scott E. Lowe, PhD
Riverfront Hall, Room 307
(208) 426-3903 (phone)  
(208) 426-2789 (fax)  
https://graduatecollege.boisestate.edu (website)

General Information
The Graduate College at Boise State University provides institutional oversight and advocacy for 107 graduate programs, established across seven academic colleges and schools, with over 3,000 registered graduate students each semester. The Graduate College annually awards over 900 graduate degrees and certificates in programs that span the breadth of graduate education, from certificate and master’s programs that prepare students for leadership roles in a wide variety of professional settings, to doctoral programs that develop the next generation of scholars. The Graduate College works closely with the Graduate Council, the deans and graduate faculties of the seven academic colleges and schools, and external accrediting organizations to ensure excellence in all aspects of the graduate experience. The scope of activities embraced by the Graduate College is very broad, including graduate admissions, strategic development of graduate programming, problem resolution for individual faculty members and graduate students, and participation at national conferences on graduate education. The Graduate College also helps the university maintain a culture of inclusiveness, collegiality and ethical behavior through its dedication to diversity, fairness and integrity.

Division of Extended Studies
Dean: Mark Wheeler
Associate Dean: Christine Bauer, PhD
Associate Dean: Peter Risse
220 E. Parkcenter Boulevard
(208) 426-1709 (phone)  
(208) 426-3467 (fax)
extendedstudies@boisestate.edu (email)  
https://extendedstudies.boisestate.edu/ (website)

Mission
Extended Studies extends higher education beyond traditional boundaries to provide college access and lifelong learning opportunities to people of varying ages and circumstances. A partner to the academic colleges of the university, Extended Studies champions and serves as an expert resource for the alternative programs, delivery methods and services that address the diverse academic, professional development, and personal enrichment needs of the metropolitan area, Idaho and beyond.

Programs Offered for Academic Credit
Boise State eCampus
Boise State has 39 academic degree and certificate programs that are offered fully online. In addition, over 600 unique courses are available online for students who are unable to attend in-person classes or need the flexibility of online courses. The format of online classes and programs are comparable to traditional classes regarding workload. Instructors lead the course and provide students with course content, make assignments, set deadlines, and interact on a regular basis with students.

Strategies for success in an online class include dedicating the necessary time each week to reading directions carefully, completing class work, and participating in discussions on a regular basis during each week.

For more information about the programs and classes offered online, visit https://online.boisestate.edu/.

Summer Sessions
Summer classes are an integral part of Boise State’s course offerings. Sessions are facilitated through the Division of Extended Studies. Summer sessions offer over 600 classes that are available in various formats and session lengths. A wide variety of graduate and undergraduate courses and workshops are offered. The Boise State University Summer Schedule of Classes is available to students each spring at https://my.boisestate.edu. For more information about summer sessions, visit https://summer.boisestate.edu or call (208) 426-1709.

Boise State Outreach Centers
With centers located across Idaho, Boise State offers students more choice in how and where they study. Each Outreach Center offers flexible scheduling of classes and programs at a convenient location or online to help students get started, finish a degree, or connect with resources and support services. Center locations include:

Military Programs
Boise State Center at Gowen Field
3655 W. Harvard Street, Building #521, Gowen Field, Boise, ID 83705  
(208) 272-3758 or (208) 426-3499

Boise State Center at Mountain Home Air Force Base
655 Falcon St., Mountain Home AFB, ID 83648  
(208) 828-6746 or (208) 426-1709

Western Treasure Valley
Boise State Center at College of Western Idaho (CWI)
Nampa Campus, Aspen Classroom Building
6002 Birch Lane, Nampa, ID 83687  
(208) 562-3423

Magic Valley
Boise State Center at the College of Southern Idaho
College of Southern Idaho Campus, Hepworth Building, Room 144D
315 Falls Ave, Twin Falls, ID 83301  
(208) 933-2305

North Idaho
Boise State Outreach Center in North Idaho
Lewis-Clark State College, Coeur d’Alene
1031 N. Academic Way, Suite 144, Coeur d’Alene, ID 83814  
(208) 292-2679

For more information about outreach locations and the resources and programs offered at each, visit https://flex.boisestate.edu/locations.
Noncredit Programs

K-12 Teacher Professional Development
Working closely with local school districts, the Idaho State Department of Education, campus academic departments and the Boise State College of Education, CPD’s K-12 Teacher Professional Development program enables teachers, and professional employees of school districts to earn professional development credit required for recertification and salary increases. The graduate credits earned through the Professional Development program are offered at a reduced rate. These credits cannot be used to satisfy degree requirements.

Through partnership with such vendors as Virtual Education Software Inc. and Idaho Digital Learning, Boise State University is able to provide professional education credit for a multitude of courses that are delivered 100% online. Please see our educator’s web page for more information and a list of current offerings: https://educatorsdevelopment.boisestate.edu/. For a complete list of Center for Professional Development courses, please visit our website at https://cpd.boisestate.edu/. For more information, call (208) 426-1709.

Boise State Center for Professional Development
The Boise State Center for Professional Development provides continuing education opportunities for professionals from various fields, including business, engineering, public administration and health care. On-campus and online courses are designed for busy professionals and progressive organizations eager to improve knowledge and practical skills while addressing dynamic work challenges. The Center for Professional Development offers non-credit courses in leadership, project management, business communication, human resources, and select specialties.

In addition, the Center for Professional Development brings Boise State University expertise and other subject matter experts directly to businesses and organizations. The center partners with organizations to develop individual training solutions that provide innovative, learning programs designed to improve employee performance, communication and business results. Schedule and location are flexible and adapted to business and operational requirements. Popular topics include:

• Leadership
• Project Management
• Business Communication
• Team Development

Professional development offered by the Center for Professional Development complies with university standards for awarding Continuing Education Units. Continuing Education Unit (CEU) is a nationally standardized unit documenting participation in noncredit programs, courses or workshops. CEUs cannot be converted to academic credit.

For a complete list of Center for Professional Development courses, please visit our website at https://cpd.boisestate.edu/. For more information, call (208) 426-1709.

Osher Lifelong Learning Institute
The Osher Lifelong Learning Institute (OLLI) provides a rich array of noncredit lectures and short courses from across the curriculum designed for seasoned adult learners age 50 and over. Membership is open to adults who enjoy the challenge of learning without the stress of tests and grades, and members share the common bond of intellectual curiosity. No prerequisites are required for this program. For a brochure and additional information, please visit https://osher.boisestate.edu or call (208) 426-1709.

Questions About Extended Studies?
If you have questions about these programs contact the Division of Extended Studies, 220 E. Parkcenter Blvd., (208) 426-1709 or online at https://extendedstudies.boisestate.edu.
General Policies

Your Rights and Responsibilities

Boise State University challenges you to reach your highest level of performance, encourages you to excel in academics and sports, and invites you to participate in many cultural and social activities available at the university. At the same time, Boise State expects you to conduct yourself in a manner compatible with the university’s function as an institution of higher learning. Therefore, we have published this catalog, the Boise State University Graduate College Policy and Procedure Manual, and the Boise State University Student Handbook to acquaint you with your rights and responsibilities as a student.

Confidentiality and Privacy

Students’ Rights

For more information see Boise State Policy #2250. The Family Educational Rights and Privacy Act (FERPA) affords you certain rights with respect to your education records. These rights include:

1. The right to inspect and review your education records within 45 days from the day the university receives a request for access.
   You should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) you wish to inspect. The university official will make arrangements for access and notify you of the time and place where the records may be inspected. If the records are not maintained by the university official to whom the request was submitted, the official shall advise you of the correct official to whom the request should be addressed.

2. The right to request the amendment of your education records that you believe are inaccurate, misleading, or otherwise in violation of your privacy rights under FERPA.
   If you wish to ask the university to amend a record, you should write the university official responsible for the record, clearly identify the part of the record you want changed, and specify why it should be changed.
   If Boise State decides not to amend the record as requested, the university will notify you in writing of the decision and your right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to you when you are notified of the right to a hearing.

3. The right to provide written consent before the university discloses personally identifiable information from your education records, except to the extent that FERPA authorizes disclosure without consent.
   The university can disclose education records without your prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official has a legitimate educational interest if the official needs to review an education record to fulfill their professional responsibilities for the university. A school official is a person employed by the university in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the university has contracted as its agent to provide a service instead of using university employees or officials (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing their tasks.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the university to comply with the requirements of FERPA. The name and address of the office that administers FERPA is: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-8520.

The information listed below is considered directory information:

- your name
- your local address
- your email address
- your local telephone number
- your major field of study
- the dates you attended Boise State
- your student classification (freshman, sophomore, junior, senior, or graduate)
- your enrollment status (e.g., full-time or part-time)
- the type of degree you have earned from Boise State and the date on which it was awarded
- the dean’s list and other honors

Authorized Disclosure Without Consent

As of January 3, 2012, the U.S. Department of Education’s FERPA regulations expanded the circumstances under which your education records and personally identifiable information (PII) contained in such records—including your Social Security Number, grades, or other private information—may be accessed without your consent. First, the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or state and local education authorities (“Federal and State Authorities”) may allow access to your records and PII without your consent to any third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program. The evaluation may relate to any program that is “principally engaged in the provision of education,” such as early childhood education and job training, as well as any program that is administered by an education agency or institution. Second, Federal and State Authorities may allow access to your education records and PII without your consent to researchers performing certain types of studies, in certain cases even when we object to or do not request such research. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive your PII, but the authorities need not maintain direct control over such entities. In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain, and share without your consent PII from your education records, and they may track your participation in education and other programs by linking such PII to other personal information about you that they obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service, and migrant student records systems.

If you wish to limit access to this information, go to myBoiseState Help at https://oit.boisestate.edu/myboisestate/ and scroll to Student Center—Personal Information and click on Update FERPA Restrictions link for instructions.

In discharging their official duties, Boise State employees may read, review, photostat, and distribute to appropriate persons within the university any information contained in your student record. However, before distributing confidential information outside the university—even to members of your family—Boise State faculty and staff must first secure your written permission to do so.

You must complete a Release of Information form to allow individuals other than yourself to access your educational or financial records. The form can be located at https://registrar.boisestate.edu/forms/student-forms/.
Academic Integrity

The university's goal is to foster an intellectual atmosphere that produces educated, literate people. Because cheating and plagiarism are at odds with this goal, these actions shall not be tolerated in any form. You are expected to adhere to the rules and regulations as set forth in the Boise State University Students Code of Conduct. Therefore, all work you submit must represent your own ideas and effort; when the work does not, you have engaged in academic dishonesty.

Plagiarism occurs when a person tries to represent another person's work as their own or borrows directly from another person's work without proper documentation. For example, academic dishonesty occurs whenever you:

• buy a paper or other project, then seek to receive credit for the paper or project
• copy from another student's exam, either before, during, or after the exam
• use “crib notes” while taking an exam or use information stored in a computer or calculator (if prohibited from doing so)
• allow another person to take an exam in your place or take an exam for another person
• collaborate on take-home exams when such collaboration is forbidden
• copy the work of another person and attempt to receive credit for that work
• fail to properly document source material in a paper or project
• receive editorial assistance that falls outside the scope of acceptable assistance

Note: The list above is intended only to provide general guidelines for recognizing and avoiding common types of academic dishonesty. It is in no way an exhaustive or comprehensive list of all the types of academic dishonesty.

Except in cases of major offenses, responding to academic dishonesty is the responsibility of the instructor of the course in which the dishonesty occurs. If you are responsible for academic dishonesty, you may be dismissed from the class and may receive a failing grade. Other penalties may include suspension or expulsion from school.

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

• Boise State University Graduate College Policy and Procedure Manual
• Boise State University Policy Manual
• Boise State University Student Handbook
• Boise State University Student Code of Conduct

General Notice of Nondiscrimination

It is the policy of Boise State University to comply with all federal, state and local authorities requiring nondiscrimination, including but not limited to Title VI of the Civil Rights Act of 1964, the Civil Rights Restoration Act of 1987, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990 (ADA), the Age Discrimination Act of 1975, and Executive Orders 12898 (Environmental Justice) and 13166 (Limited English Proficiency). Boise State is an equal opportunity employer.

The university does not exclude from participation in, deny the benefits of, or subject any individual to discrimination on the basis of race, color, national origin, sex, sexual orientation, gender identity, disability, income, protected veteran status, limited English proficiency, or any other status protected under applicable federal, state or local law. For Boise State's nondiscrimination policies and grievance procedures, please see Boise State Policies 1060, 1065, and 1070 at https://policy.boisestate.edu/.

For more information or if you believe you have been subject to discrimination on the basis of sex, sexual orientation, gender identity, disability, or on any other basis, please contact the Office of Institutional Compliance and Ethics: Riverfront Hall, Suite 306, 1910 University Drive, MS 1215, Boise, ID 83725, telephone: (208) 426-1258, email: reportdiscrimination@boisestate.edu.

You may also file a complaint with: Office for Civil Rights, Seattle Office, U.S. Department of Education, 915 Second Avenue, Room 3310, Seattle, WA 98174-1099, telephone: (206) 607-1600, fax: (206) 607-1601, email: OCR.Seattle@ed.gov.

Providing Equal Access to People with Disabilities

Boise State is committed to creating a diverse and inclusive campus environment by abiding by the letter and spirit of the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. Accordingly, the university does not discriminate against persons with disabilities and strives to provide an exceptional academic experience for students with disabilities by providing reasonable and appropriate accommodations for equitable access.

Boise State's Educational Access Center (EAC) coordinates services to meet the educational needs of students with documented disabilities. The EAC works with students and faculty to arrange reasonable accommodations and promote an environment that is free of both physical and attitudinal barriers. Students with disabilities needing accommodations to participate fully in academic programming should contact the EAC. All accommodations must be approved through the EAC prior to being implemented. To learn more about the accommodation process, visit the EAC’s website at https://eac.boisestate.edu/.

Employees or applicants for employment who require disability-related services or accommodations should contact Human Resource Services located located at 2225 W. University Drive, Capitol Village #3, MS 1265, Boise, ID 83725, or by phone at (208) 426-1616. More information on requesting an accommodation is available at https://hrs.boisestate.edu/employees/eooa/.

Boise State’s Office of Institutional Compliance and Ethics monitors compliance with Section 504 and the ADA and coordinates the university’s response to complaints of discrimination on the basis of disability. Individuals with questions or concerns related to the university’s obligations in regard to these laws and those who wish to file a complaint may contact the Office of Institutional Compliance and Ethics: Riverfront Hall, Suite 306, 1910 University Drive, MS 1215, Boise, ID 83725, telephone: (208) 426-1258, email: reportdiscrimination@boisestate.edu.

In addition to the Office of Institutional Compliance and Ethics, inquiries may be directed to the federal department responsible for enforcing Section 504 in the educational context: Office for Civil Rights, Seattle Office, U.S. Department of Education, 915 Second Avenue, Room 3310, Seattle, WA 98174-1099, telephone: (206) 607-1600, fax: (206) 607-1601, email: OCR.Seattle@ed.gov.

Student Records

Boise State University routinely collects, stores, and maintains many kinds of information about prospective, current, and former students. For instance, Admissions maintains a file for each student who has applied for admission to the university for a period of two to five years (see Graduate Admissions Regulations for details). Other files at the Registrar's Office contain your permanent transcript. Faculty and departments also may maintain files containing advising records, grades sheets, and correspondence.

In general, you have the right to review the documents that constitute your official record. If you wish to do so, please contact the Registrar’s Office, Administration Building, Room 110, (208) 426-4249.

Transcript Records

You may order official transcripts online at https://registrar.boisestate.edu/transcripts. The Registrar’s Office makes every effort to ensure that your transcript records are up-to-date and accurate. If you believe there is an error or an omission on your transcript, please contact the Registrar’s Office, Administration Building, Room 110, (208) 426-4249.
Verification of Your Enrollment Status

Your enrollment status is public information, unless you have notified the university that you want it to be treated as confidential (see Confidentiality and Privacy in this chapter). In responding to inquiries from outside the university, Boise State calculates your enrollment status per Table 1. Requests for verification of enrollment status often come from such businesses as employment agencies, insurance companies, and lending agencies.

<table>
<thead>
<tr>
<th>Number of Credits (Currently enrolled)</th>
<th>Enrollment Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 or more</td>
<td>Full-Time</td>
</tr>
<tr>
<td>6 to 8</td>
<td>Three-Quarter-Time</td>
</tr>
<tr>
<td>5</td>
<td>Half-Time</td>
</tr>
<tr>
<td>4 or fewer</td>
<td>Less Than Half-Time</td>
</tr>
</tbody>
</table>

Note: If you are receiving benefits under the G. I. Bill, you should contact the Veteran Services Office, located in the Lincoln Garage, on the corner of Lincoln Ave. and University Dr., (208) 426-3744, to determine your enrollment status. Note: If you are receiving financial aid, please read the Financial Aid for Graduate Students section for additional enrollment requirements to maintain your financial aid eligibility.

Address Changes

Whenever Boise State University policies or procedures call for a university office to send you written notification, that obligation is fulfilled when that office mails the notification to your last mailing address on record. If you are currently enrolled or have access to a myBoiseState account, you must update address information on myBoiseState (https://my.boisestate.edu/) on your Student Center (under the personal information section, select Addresses). If you are a past student, and do not have access to a myBoiseState account, submit a Information Update form (located at https://registrar.boisestate.edu/forms/student-forms/) to the Registrar’s Office, Administration Building, Room 110.

Name Changes

You should promptly report a name change. You may do so by going to https://registrar.boisestate.edu/forms/student-forms/, completing an Information Update form and returning the form to the Registrar’s Office, Administration Building, Room 110. You must provide evidence showing that your name has officially changed, such as a certified copy of a court order, a marriage certificate, or a dissolution decree reflecting the new name in full. Note: If you are currently or were previously employed (even as a student), you must report your name change to the Department of Human Resource Services, Campus School, Room 120, (208) 426-1616 (documentation requirements may differ).

Right of Appeal

You have the right to appeal any academic policy or requirement if either of the following conditions is present:

- Extenuating circumstances make it impossible for you to comply with the policy or requirement.
- An undue hardship would result from a strict application or interpretation of the policy or requirement.

Please note, however, that extenuating circumstances must be beyond your control and that undue hardship must be a condition far more serious than simple inconvenience. Documentation will be required and the timeliness of the appeal will be taken into consideration.

If you appeal an academic policy or requirement, that appeal will be reviewed by the Graduate Dean and/or by the University Academic Appeals Committee as appropriate. For more information about appeals and grievances, see the Boise State University Graduate College Policy and Procedure Manual (https://graduatemcollege.boisestate.edu/policymanual/), Boise State University Policy Manual (https://policy.boisestate.edu/) and the Boise State University Student Handbook (https://vpsa.boisestate.edu/).

Last Week of Classes and Final Exams

No classes provided by Boise State University will give any test or examination during the last seven calendar days preceding the first day of the officially scheduled final examination period of the fall or spring semester (traditionally referred to as “Dead Week”), except in those particular courses that are offered in an accelerated time frame less than 15 weeks and/or wherein it is deemed necessary by departmental policy (e.g., lab, artistic performance, project presentation, team analysis, etc.). Online courses are expected to adhere to the policy whenever possible, but they are allowed to make exceptions when the course schedule differs from the regular semester schedule.

- In-class final or take home final exams will be given and/or due during the officially scheduled final examination periods.
- No take home test or exam may be made due during the last week of classes.
- Test or exam dates during the last week of classes are not subject to personal preferences (e.g., faculty preference, class vote, or other means of general consensus).
- Exceptions may be allowed for extenuating circumstances, on an individual student basis, to be arranged at a time agreeable to the faculty member.
- Faculty will provide a clear statement in the course syllabus as to what is expected of students during the last week of class.

Each semester, a schedule for final examinations is published on the Registrar’s Office website at https://registrar.boisestate.edu/boise-state-academic-calendars/final-exam-schedules/. This schedule defines the dates and times during which all final examinations must be scheduled.

Questions About These Policies?

If you have questions about these policies, contact the Registrar’s Office, Administration Building, Room 110, (208) 426-4249.
Admission Requirements

Minimum Admission Requirements of the Graduate College
The minimum requirements for admission to the Graduate College are:

- At least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office. Applicants can request an exception to this requirement. Refer to request for an exception to the regionally accredited institution requirement for admission.
- An undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree. Noted above.

Finally, applicants who are applying as graduate degree-seeking students and were graduate degree-seeking students elsewhere but did not complete the program must demonstrate that they departed that program in good academic standing.

Admission Requirements for a Graduate Degree or Certificate Program
Each graduate program has its own admission criteria, in addition to the minimum admission requirements of the Graduate College. To ensure the best opportunity for admission, you are encouraged to review the specific admission requirements and application procedures provided by the program. Admission is competitive and otherwise qualified applicants may be denied admission based on factors established by each program. In addition to academic merit (as reflected by GPA, test scores, and other information), a program’s recommendation may be based on factors including but not limited to:

- program capacity or space limitations,
- the perceived strength of the candidate’s application in relation to other applicants,
- the availability of faculty with expertise in an area of study, and
- the candidate’s demonstrated ability to write well, work collaboratively, communicate respectfully and effectively, take constructive feedback, work under pressure, and/or otherwise prepare and conduct themselves in a manner consistent with program expectations, professional ethical and/or licensure requirements, and university policies and procedures, including its Student Code of Conduct and Statement of Shared Values.

Graduate programs may use information submitted as part of the application, as well as additional sources, in the process of evaluating and recommending applicants for admission.

To Apply to a Degree or Certificate Program
Graduate programs may set one or more standard application deadlines appropriate for management of the program. As a prospective student, you are encouraged to consult the application procedures provided by the program. If the program is not specific about its application deadlines, then the Graduate College recommends submitting all application materials by the following priority dates:

- January 15 for summer and fall admission
- October 1 for spring admission

To apply for admission to a degree or certificate program, complete the following steps before the program deadline:

1. Submit an online application for admission to the Graduate College, along with the nonrefundable application fee.
2. Request official transcripts from each educational institution (excluding Boise State) attended beyond high school. Transcripts should be sent directly from the institution to the Graduate College and can be sent electronically, mailed, or faxed directly. Use the following address if the transcripts are electronically sent: graduatecollege.boisestate.edu. Faxled transcripts can be sent to (208) 426-2789.

Table 2
How to Apply for Admission to the Graduate College at Boise State University
To apply for admission to Boise State University as a graduate student, submit to the Graduate College all materials indicated in the list below to the Graduate College. All admission materials must be received by the posted deadline (see Academic Calendar, page 2).

New Degree-Seeking Graduate Applicants
- Graduate Admission Application
- Nonrefundable application fee. (Current fee online at https://graduatecollege.boisestate.edu/howtoapply/)
- Official* transcripts from all postsecondary institutions (excluding Boise State) showing all courses completed and degrees earned.
- Official GRE or GMAT scores, if required.
- Letters of recommendation and/or other materials that may be required by the program to which you are applying.

Note: If you have never attended Boise State University as a graduate student, admission materials are retained for two years after your last date of application. Please submit new materials if you have not attended Boise State within the last two years.

Returning Students Previously Enrolled in a Graduate Degree Program
Boise State graduate students will remain active for 6 consecutive semesters (including summer) before a new Graduate Admission Application and nonrefundable application fee are required.

- Graduate Admission Application
- Nonrefundable application fee. (Current fee online at https://graduatecollege.boisestate.edu/howtoapply/)
- Official* transcripts from all other colleges attended, if not previously submitted.
- Official* GRE or GMAT scores, if required and not previously submitted.

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

Nondegree-Seeking Applicants
- Graduate Admission Application
- Nonrefundable application fee. (Current fee online at https://graduatecollege.boisestate.edu/howtoapply/)
- Official* transcript from institution (excluding Boise State) which granted your highest degree.

Applicants Seeking a Second Undergraduate Degree
- Application for Undergraduate Admission with nonrefundable application fee through undergraduate admissions office.
- Official transcript* from the college or university granting the baccalaureate degree. If the degree is from Boise State, a transcript is not needed.

Applicants from Other Countries
- International Graduate Admission Application
- Nonrefundable application fee. (Current fee online at https://graduatecollege.boisestate.edu/howtoapply/)
- Official* proof of four-year degree and transcripts from each educational institution attended beyond high school. **
- Official TOEFL or IELTS results.
- Official GRE or GMAT scores, if required.
- Letters of recommendation and other materials required by the program to which you are applying.
- Documentation to demonstrate adequate financial resources to cover one year living expenses, tuition, and fees.

*To be official, transcripts must be sent by the issuing institution directly to Boise State University Graduate College.

**If written in a language other than English, these documents must be accompanied by an official English translation.
3. Complete any standardized exams required by the graduate program. Check the list of Degree Programs available on the Graduate College website (https://graduatecollege.boisestate.edu/programs2/) to see if a specific program requires exams. Make sure the exam results are forwarded to the Graduate College. The institutional code for Boise State University for all exams administered by the Educational Testing Service (ETS) is 4018.

4. Submit all required letters of recommendation and other materials required by the graduate program.

Review of an application cannot begin until each of these steps is completed and the Graduate College has received all materials, including materials that are specific to a particular graduate program. You can monitor the status of your application using the “To Do” list found in myBoiseState.

Once these steps have been completed, you are eligible for admission to the Graduate College, but have not yet been admitted to a degree or certificate program. At this point, you may enroll in courses for which you are eligible, but are not permitted to work toward a graduate degree or certificate and are not eligible for federal financial aid. If you are enrolled in and complete graduate credits at Boise State University that are counted towards a degree or certificate program and later apply and are admitted into a different graduate degree or certificate program, the program may recommend to the Graduate College that some of those credits be applied to the requirements of the new degree or certificate program. The application of previously-completed graduate credit to a degree or certificate program is subject to the Restrictions on Certain Courses rules, and any time interval restrictions established under the Duration of graduate study policies for degree or certificate programs. The graduate degree or certificate program may define a maximum number of these credits and all final decisions regarding the applicability of these credits rest with the Graduate Dean.

Once all application materials have been received, the application is reviewed by the graduate program. Once this review is complete, the program forwards an admission recommendation to the Graduate Dean using a Program Admission Recommendation (PAR) form. The Graduate Dean then makes the final determination and notifies the program and the student. You are admitted in one of the following categories:

- **Regular Admission** This category is typically used when your undergraduate GPA is 3.00 or higher. In the event that your undergraduate GPA is below 3.00, a program may support a recommendation for regular admission if you have successfully completed a significant number of graduate credits, or a graduate degree, with a graduate GPA of 3.00 or higher. Regular admission indicates full graduate standing in an academic program with no special stipulations.

- **Conditional Admission** This category is used when you have not yet completed an undergraduate degree or the Graduate College has not yet received a final undergraduate transcript with the undergraduate degree posted. Your status will be changed to regular once the Graduate College has received verification of the undergraduate degree.

- **Provisional Admission** This category is typically used when your undergraduate GPA is below 3.00. In the event that your undergraduate GPA is 3.00 or above a program may still support a recommendation for provisional admission using your limited relevant undergraduate coursework, demonstrated writing or computational skills, or other factors. Provisional admission establishes special stipulations such as a probationary period and/or other specific stipulations that must be satisfied within a reasonable time. Your status will be changed to regular once the specified stipulations have been met.

At this point, you have been officially admitted to the graduate program. All degree-seeking students admitted as regular, conditional, and provisional are eligible for financial aid.

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**For Students with Provisional Admission**

If you are admitted with provisional status, the stipulations and timeline are filed by the graduate program with the Graduate College. At the end of each enrolled semester (including summers), the Graduate College and the graduate program, working in collaboration, review your progress and take one of the following actions:

1. Promote you to regular status if the program determines that the stipulations of the provisional admission have been met.

2. Continue you on provisional status if the stipulations of provisional admission have not been met and the program recommends continuation.

3. Dismiss you from the program and Boise State if the stipulations of provisional admission have not been met and the program recommends dismissal. If you are dismissed, you will be administratively withdrawn from your courses and cannot register for classes until you are either reinstated to the graduate program or readmitted to the Graduate College. If you request reinstatement (following Boise State University Policy #3090) and are granted reinstatement to the program within 30 calendar days, you are not required to reapply to the Graduate College. After 30 days, you must submit a new online application and application fee.

In each case, the Graduate College informs you and your graduate program via email (using the student’s Boise State email address, according to Boise State University Policy #2280).

If a student submits an Application for Admission to Candidacy (AAC) form while on provisional status, approval by the Graduate College will be delayed until the provisions have been met and the student has been promoted to regular status.

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**To Apply as a Nondegree-Seeking Student**

If you submit an application but do not specify a degree or certificate program, you are said to be applying as a nondegree-seeking student. Applications from nondegree-seeking students are accepted at any time, but prospective students are advised to submit all application materials well in advance of the desired semester or summer session.

You may apply for admission as a nondegree-seeking student if you have earned a baccalaureate degree or a higher degree from a regionally accredited institution. If you subsequently decide to apply to a degree or certificate program, you will be required to meet the GPA and all other requirements of the program to which you apply. To apply for admission as a nondegree-seeking student, complete the following steps before the deadline specified in the current academic calendar:

1. Submit an online application for admission to the Graduate College, along with the nonrefundable application fee.

2. Request official transcripts from each educational institution (excluding Boise State) attended beyond high school. Transcripts should be sent directly from the institution to the Graduate College and can be sent electronically, mailed, or faxed directly. Use the following address if transcripts are mailed: Graduate College, Room 307, Riverfront Hall, Boise State University, 1910 University Drive, Boise, ID 83725-1110. Use the following email address if the transcripts are electronically sent: gradcoll@boisestate.edu. Faxed transcripts can be sent to (208) 426-2789.
Admission Status for Nondegree-Seeking Students

If you are admitted to the Graduate College as a nondegree-seeking student, you may register for courses of interest for which you are eligible as long as you have met the necessary prerequisites and the courses are not restricted. However, you may not work toward a graduate degree or certificate and are not eligible for federal financial aid. If you complete courses at Boise State University as a nondegree-seeking student and later apply and are admitted to a graduate program, the program may recommend to the Graduate College that courses completed while in non-degree status be applied to the credit requirements of the program. The graduate program may define a maximum number of applicable credits of this type, but the maximum cannot exceed nine (9) credits, and students must apply and be accepted into a graduate degree or certificate program before they have completed the requirements for the degree or certificate – no retroactive degrees or certificates will be conferred. All final decisions regarding the applicability of such credit rest with the Graduate Dean.

Application Deadlines for Degree-Seeking Students

The academic unit responsible for a graduate program may set one or more standard application deadlines appropriate for management of the program. If you wish to apply as a graduate degree-seeking student, you are strongly encouraged to consult the description of the program of interest at the Graduate College website (https://graduatecollege.boisestate.edu/programs2/). If the program is not specific about its application deadlines, then the Graduate College strongly encourages you to submit all application materials seven to nine months in advance of the anticipated starting semester or term.

Applying for Admission as an International Graduate Student

Boise State welcomes applications from qualified students from around the world. The requirements described below apply to applicants in the United States with a visa or applicants who require a student visa to study in the United States. As an international applicant, you may apply for admission as a graduate student if you have earned, from an accredited institution, the equivalent of a U.S. four-year baccalaureate degree or a higher degree. To apply for admission to Boise State, you must complete the following steps:

1. Submit a completed International Student Graduate Application along with the nonrefundable application fee by one of the following deadlines:
   - January 15 for Summer and Fall semester admission,
   - October 15 for Spring semester admission, or
   - the deadline set by the graduate program if that deadline is earlier.

2. Submit official transcripts and proof of degree from each educational institution you have attended beyond high school or the equivalent of high school. Instruct the educational institutions to send the transcripts directly to:
   International Admissions Office
   Center for Global Education
   Boise State University
   1910 University Drive
   Boise, ID 83725-1145

If written in a language other than English, these documents must be accompanied by an official English translation. If the institutions cannot submit these documents directly to the Boise State University International Admissions Office, certified or attested copies of official academic records and proof of four-year degree may be substituted. The certified copies must be issued or attested by an official of the institution and sent to Boise State in the sealed official envelope of the institution, with the institution’s stamp across the seal of envelope. Boise State University reserves the right to request that applicants submit a professional credential evaluation completed by an independent credential evaluation service in addition to official transcripts. Boise State University accepts evaluations completed by World Education Services (https://www.wes.org), Education Credential Evaluators (https://www.erce.org/ECE), and Educational Perspectives (https://www.edperspective.org).

You may appeal this requirement in situations that meet all of the following requirements:
- The transcript is for a degree or certificate that was not completed.
- The application is for a Boise State graduate program at the same academic level (doctoral, master’s, certificate) as the previous incomplete graduate work.
- You are not transferring any credits from the incomplete degree or certificate.
- You submit to the Graduate College sufficient documentation showing that application of this requirement would result in an undue hardship. This must be a condition that is far more serious than simple inconvenience.

The documentation will be carefully reviewed by the Graduate College in consultation with the International Admissions Office and the timeliness of the appeal will be important. You should submit your application and appeal at least 3 weeks before the application deadline for the specific graduate program. Appeals received after this date will still be reviewed but the review may not be completed in time to meet the specified deadline.

If you appeal this requirement and are admitted to a graduate program, you will be admitted with conditional status pending submission of the official transcript(s).

Guidelines for how to send official transcripts can be found on the International Admissions website: https://globaleducation.boisestate.edu/international/how-to-apply/undergraduate-official-international-transcripts/.

3. Submit evidence of English proficiency that meets the minimum requirements for the Graduate College and the graduate program. The English Language Proficiency Requirement can be met by submitting official TOEFL or IELTS scores. Scores must be submitted directly from the testing agency and are valid if scored within two years of application to Boise State. The minimum score required for admission is:
- TOEFL score of 550 (paper-based) or 80 (Internet-based)
- IELTS overall score of 6.0 or better

Some graduate programs may require higher TOEFL or IELTS scores. You should review the admission requirements of the specific program you are interested in.

Additional options for demonstrating English language proficiency exist. Please refer to the full list of proficiency options at https://globaleducation.boisestate.edu/international/language-requirements/

Meeting score requirements does not guarantee admission. Boise State may request additional supporting documentation and/or an interview to validate English proficiency if deemed necessary during application review.
4. Take the Graduate Management Admission Test (GMAT), Graduate Record Examination (GRE), or any other predictive exam required by the program to which you are applying. Ensure that the results of these exams are forwarded to:
   Graduate College
   Riverfront Hall, Room 307
   Boise State University
   1910 University Drive
   Boise, ID 83725-1110
   The institution code number for Boise State for all examinations administered by the Educational Testing Service (ETS) including the TOEFL and GRE is 4018. For information about specific program requirements, see the Graduate College website at: https://graduatecollege.boisestate.edu.

5. Submit all letters of recommendation and other materials required by the program.

6. Submit documentation sufficient to show sufficient financial resources to cover one calendar year of living expenses, tuition, and fees. Send the documentation to the International Admissions Office after meeting all other requirements for admission and being accepted to a graduate program. This item is only required for students who require an F-1 student visa to complete their graduate program.

   The International Admissions Office will issue an I-20 form if you require an F-1 student visa, meet all admission requirements, supply the necessary financial documentation, and are accepted to a degree program. An I-20 form will be required to apply for an F-1 student visa. If you would like additional information, please contact the International Admissions Office.

   Note: All international students taking on-campus classes must purchase health insurance that meets Boise State's health insurance requirements.

Retention of Admission Records
The Graduate College retains your admission file for two to five years. If you applied for graduate admission but never attended Boise State as a graduate student, your official transcripts are retained for two years after your last date of application. If you attended Boise State as a graduate student your official transcripts are retained for five years after your last term of enrollment.

If you reapply to Boise State beyond the retention period you may be asked to furnish new official transcripts if you have not attended Boise State within the last two years.

Administrative Handling of Admission Documents
The Graduate College coordinates graduate admission processes and can provide additional information and answer questions. All documents received by Boise State University in conjunction with an application for admission become the property of the university. These documents will be duplicated only for use in admission decisions and student advising at the university. Moreover, the original documents will not be returned to you, or forwarded to any individual unaffiliated with Boise State University, or forwarded to any other agency, organization, college, or university.

Questions About These Policies?
If you have questions about these policies, contact:

   Graduate College
   Riverfront Hall, Room 307
   (208) 426-3903 (phone)
   (208) 426-2789 (fax)
   gradcoll@boisestate.edu (email)
   https://graduatecollege.boisestate.edu

   International Admissions Office
   Simplot Micron Advising and Success Hub, Room 227
   (208) 426-1757 (phone)
   interntl@boisestate.edu (email)
   https://admissions.boisestate.edu/international/
Registration Policies and Procedures

Shortly after you have been admitted to a graduate program, your department will assign a member of the faculty to serve as your academic advisor.
Nondegree-seeking students may seek advising in the Graduate College or the department from which you intend to take courses.
Prior to registration, all students are encouraged to seek advising.
Registration takes place each semester and summer session. You will be assigned a registration appointment. Beginning at that time and until registration closes, you can log onto your Student Center via myBoiseState (https://my.boisestate.edu/) and register. The Registrar’s Office, Administration Building, Room 110, (208) 426-4249, can assist you if you are not familiar with the web process. You must have your username and password when you register.

Academic Calendar
Boise State’s Academic Calendar, which lists all the registration deadline dates for the current catalog year, can be found in the front of this catalog and on the Registrar’s website (https://registrar.boisestate.edu/boise-state-academic-calendars/). The academic calendar specifies the policy deadlines, by semester and session, for the following: registration, adding and dropping classes, and withdrawals. You are strongly encouraged to familiarize yourself with this calendar, especially the Deadlines by Session table located at the top; you will be held accountable for meeting these deadlines.

Academic and Fee Policy
Once you register for classes, you remain registered and are held responsible for the fees and grades assessed for these classes unless you cancel your registration. If you do not pay for or do not attend these classes, you are still held responsible for the fees and grades assessed. If you decide not to attend any classes, you must log in to your Student Center on myBoiseState (https://my.boisestate.edu) no later than the deadline and drop all of them (see the Academic Calendar Deadlines by Session table and Rules for Dropping a Workshop). This includes any courses and workshops that begin later in the semester and any courses still waitlisted.
If you do not cancel your registration or pay your fees by the fee payment deadline, you will remain registered, you will be charged course fees, and you will be assessed a $50 late penalty.
Note: cancellation of courses may have financial aid impacts. You may be required to repay all, or a portion, of any financial aid awarded to you.

Enrollment Appointments
As a graduate student, you will be initially assigned an enrollment appointment for fall and spring semesters.
• Fall 2018 appointments begin March 27, 2018
• Spring 2019 appointments begin October 30, 2018
Open registration begins after the fee-payment deadline for preregistered students and runs through the tenth day of the fall and spring semesters.
Appointments are not assigned for summer sessions.
• Summer 2019 open registration begins February 19, 2019

Audit Course
During registration on myBoiseState (https://my.boisestate.edu), you may elect to take a course for audit instead of credit, if space is available in the class. Register by selecting audit status with the understanding that you will receive neither credit nor a grade (A+ through F), regular course fees apply.
On your transcript, audit status indicates that you had a seat in the class, but may or may not have participated in class activities. You may change your registration status from credit-to-audit or audit-to-credit up until the appropriate deadline for the session (see the Academic Calendar Deadlines by Session table). If you fail to meet the audit requirements established by the instructor, the instructor may give you a final grade of UAU (Unsatisfactory Audit). For more information, contact the Registrar’s Office, Administration Building, Room 110, (208) 426-4249.

Adding Classes
Before the semester begins, you may add classes to your schedule, through the Student Center, on myBoiseState (https://my.boisestate.edu/), if there is space available in the class.
If a class is full, you may place yourself on a waitlist to enroll in the class if a seat becomes available. You may continue to add classes after the first day of classroom instruction up until the appropriate deadline for the session. However, after the fifth day of the semester’s regular session, you must obtain the instructor’s approval for a permission number to add the class.
Instructors may refuse to grant a permission number if the class is full (see the Academic Calendar Deadlines by Session table in the front of this catalog for the exact deadline). They may also refuse to issue a permission number if your late entry would prevent you from benefiting fully from the class or would prevent other students in the class from doing so. Enter the permission number on your Student Center when you register for the class. If you are registering for or adding a directed research, an independent study, internship/practicum, or reading and conference, you may do so through the end of the sixth week of the semester (see the Academic Calendar Deadlines by Session table).

Waitlisting
When attempting to enroll in a full course, usually you will be given the option of putting yourself on the waitlist for the course. Your eligibility to be on the waitlist depends on whether you meet the requisites for the course. Please note that some courses do not provide a waitlist option. Once on a waitlist, if a seat becomes available, you will automatically be added to the course and notified via an email sent to your BroncoMail account. If you are on multiple waitlists for different sections for the same course, you will be removed from the other waitlists at that time. The waitlist process runs five times daily throughout the registration process and is “closed down” on the last day a class can be added without an instructor’s permission number (see the Academic Calendar Deadlines by Session table). If you are already enrolled in another section of the course that is waitlisted or have time conflicts with other courses, you will not be enrolled via the waitlist process.

21-Credit Cap
You may enroll in up to 21 credits per term. If you want to take more than 21 credits in a term, you will need to work with your advisor to complete a Request to Exceed 21 Credit Hours form. Enrolling in more than 17 credits will result in an overload fee.
For more information about adding classes, contact the Registrar’s Office, Administration Building, Room 110, (208) 426-4249.

Dropping Classes
You may drop regular session classes from your schedule, in the Student Center, on myBoiseState (https://my.boisestate.edu/) through the tenth week of the semester. See the Academic Calendar Deadlines by Session table in the front of this catalog for the exact deadline. If you drop a regular session class before the tenth day of the semester, the class will not appear on your transcript. However, if you drop a regular session class after the tenth day, your transcript will show a grade of W (for withdrawal) for that class. Grades of W will not be used in GPA calculation (see Withdrawals for the maximum number of Grades of W you can accrue). Workshops, short courses, five-week, and seven-week block courses have different deadline dates. See the Academic Calendar Deadlines by Session table in this catalog for the exact deadline.

Drop Fee
You are expected to finalize your class schedule at the beginning of each term. Dropping unwanted courses as the semester begins allows other students the opportunity to add the courses they need. You will have the opportunity to attend the first class session to make a decision to stay enrolled or drop before a $10 drop fee per course is charged. The drop fee deadlines vary by session. See Academic Calendar Deadlines by Session table for the deadlines.
For more information about dropping classes, contact the Registrar’s Office, Administration Building, Room 110, (208) 426-4249.

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Workshops

Workshops have special deadlines. Special Session 1 (SP1) is typically utilized for workshop or special event courses that span four days or fewer. This will allow you to add up until the day before the class begins and drop with a W one day before the class ends. If the class is dropped the last day, the drop will result in a grade of F.

Special Session 2 (SP2) is used to schedule courses that fall outside of standard predefined sessions (e.g., 1st 7-week, 2nd 5-week), and that span 5 days or more. This will allow you to add through the first day of class and drop with a W through the day after the first day of class. The last date to drop with a W varies by course, and you are strongly encouraged to access your class schedule on myBoiseState (https://my.boisestate.edu/) and click on the Deadline link for the specific class to confirm the final penalty date.

To enroll in a workshop that is full and has not started yet, you must submit a Registration Override Form, with the instructor’s signature, to the Registrar’s Office, Administration Building, Room 110, (208) 426-4249, no later than the day before the workshop starts. Workshops do not have permission numbers.

Appeals to Drop a Class After the Deadline

If you need to drop a class in a current semester after the last drop deadline for the session, but before the session ends, you must submit an appeal to the dean (or associate dean) of the college of the course using the Request to Drop a Class After the Deadline form. Read the instructions, fill out the form, submit a written letter, and provide documentation of extenuating circumstances that would justify an exemption to the drop deadline policy. The instructor may deny the appeal. If the instructor signs the form, then you can proceed to request approval and signature from the dean (or associate dean). Once you receive all required signatures, submit the form to the Registrar’s Office, Administration Building, Room 110, (208) 426-4249, for processing. The form is located online at https://registrar.boisestate.edu/forms/student-forms/.

Faculty-Initiated Withdrawals

An instructor has the option of withdrawing you from a course if any of the following conditions are present:

• you fail to attend one of the first two meetings of a class that meets more than once each week,
• you fail to attend the first meeting of a class that meets once each week,
• you have not satisfied the requisites for the class.

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

To withdraw a student for failing to attend one of the first two meetings of a class that meets more than once each week or the first meeting of a class that meets once each week, the instructor has the option to submit a Faculty-Initiated Withdrawal Form to the Registrar’s Office, Administration Building, Room 110, (208) 426-4249. If you are withdrawn from a course for failing to attend these specified class meetings, you may re-enroll in the course with the instructor’s permission through the tenth day of the semester (see the Academic Calendar Deadlines by Session table in this catalog for the exact deadline of the various sessions). To be withdrawn for failing to satisfy entrance requirements, the instructor or the department must notify you of the impending withdrawal and then request the withdrawal through the Registrar’s Office. All faculty-initiated withdrawals will be removed from your record and will not appear on your transcript.

Attendance Policy

You are responsible for attending courses for which you are enrolled. You are also responsible for making up any work you may have missed by failing to attend class, even if the absence was approved by Boise State University, necessitated by illness, or necessitated by a personal emergency. In this sense, then, there are no “excused” absences.

Please note, you should consult your course syllabus for instructor’s class attendance policy.

Complete Withdrawal from Boise State

If you wish to leave the university in good standing, you must drop all your current semester classes and remove yourself from any waitlists by logging in to your Student Center on myBoiseState (https://my.boisestate.edu). See the Academic Calendar Deadlines by Session table in the front of this catalog for specific deadlines for the various sessions. If the complete withdrawal for regular session is made after the tenth day of classes and you have not paid your fees, you are still responsible for the entire amount of fees incurred plus a $40.00 administrative processing fee. If you do not cancel your registration or completely withdraw by the appropriate deadline for the session, you will be awarded a final grade of F.

A complete withdrawal after the published deadline will only be granted by special appeal and because of extraordinary circumstances through the University Academic Appeal Process. The Academic Appeals Form is available at https://registrar.boisestate.edu/forms/student-forms/. For information on refunds of tuition and fees following a complete withdrawal, see Tuition and Fees chapter.

Financial Aid and Withdrawals

If you withdraw from the university, you need to be aware of federal regulations impacting your financial aid eligibility. Withdrawals will impact your compliance with Satisfactory Academic Progress. Please see the policy at https://financialaid.boisestate.edu/handbook/manage-aid/satisfactory-academic-progress/. Complete withdrawals may also result in a financial obligation by you to return the unearned portion of any federal aid disbursed to you or to your student account. You must repay Boise State for any unearned aid which had applied toward tuition and fee charges. A repayment may also be required for unearned aid disbursed directly to you. A full explanation of this policy, including examples, is available at https://deanofstudents.boisestate.edu/studentwithdrawal/. If you are considering withdrawing from Boise State, we strongly recommend that you review this information. If you still have questions, please contact the Financial Aid Office, (208) 426-1664, for more information.
Administrative Withdrawal from Boise State

An administrative withdrawal is the process by which Boise State formally withdraws you from the university, usually without your consent or cooperation. You may be administratively withdrawn for a variety of reasons, including the following:

- failing to pay library fines, overdue loans, deferred fee payments, housing accounts, or other such charges,
- falsifying information on an admissions application or other university record or document,
- failing to respond to an official summons issued by the university,
- exhibiting behavior that constitutes a clear and present danger to yourself or to others.

Administrative withdrawals due to nonpayment of financial obligations (library fines, overdue loans, deferred fees, housing accounts, etc.) are recorded with a grade of W and appear on your transcript if processed after the tenth day of the semester.

Administrative withdrawals due to ineligibility to be in a course or continue in school for reasons other than nonpayment of financial obligations may or may not appear on your transcript.

Notification of administrative withdrawals are sent to your BroncoMail account.

Questions About These Policies?
If you have questions about these policies, contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.
Boise State University’s Grading System

Boise State University uses a 4.00 grading scale. Table 3 lists the letter grades that instructors use to document their evaluation of your work and your academic status in the class. In addition, Table 3 defines the meaning of each letter grade and specifies the number of quality points that correspond to each grade. Quality points are used to determine your grade-point average (GPA). The procedure for calculating your GPA is described in “How to Calculate Your Grade-Point Average (GPA).”

How to Calculate Your Grade-Point Average (GPA)

Boise State calculates and documents three types of grade-point averages (GPA):

- Cumulative GPA
- Semester or term GPA
- Boise State GPA

Each of the three types of GPA is calculated with the same formula:

\[
\text{Total quality points earned divided by GPA credits attempted} = \text{GPA}
\]

In calculating your cumulative GPA, Boise State uses courses you have taken at the university in your current career and all courses you have transferred from other post-secondary institutions—but only if you received a final letter grade (A+ through F) in those transferred courses. During any semester you can be enrolled in one of two possible careers: undergraduate or graduate.

In calculating semester GPA, the formula uses only the quality points earned and GPA credits attempted that semester. For Boise State GPA, the formula uses only quality points earned and GPA credits attempted at Boise State in your current career.

All GPA calculations exclude credits for

- pass/fail courses in which you received a final grade of P (note: a grade of F will impact your GPA),
- courses that you registered for, but later dropped from your schedule, even though the course may appear on your transcript with a final grade of W or CW,
- courses you took under audit status (AUD or UAU), and
- courses in which you have received the grade of I, for incomplete; or IP, for in-progress (until the I or IP is changed to a letter grade).

Incomplete Grades

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

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

To receive an incomplete in a graduate course, you and your instructor must agree to a contract stipulating the work you must do and the time in which it must be completed for you to receive a grade in the class. The terms of this contract are viewable on myBoiseState under Your Student Center To Do List. By the end of this specified time, the instructor must turn in a grade by submitting a Grade Change Card to the Registrar's Office.

If no grade other than incomplete has been assigned one year after the original incomplete, the grade of F will automatically be assigned. The grade of F may not be changed without the approval of the University Academic Appeals Committee. A grade of incomplete is excluded from GPA calculations until you receive a final grade in the course. You cannot graduate with a grade of I (incomplete) on your record.

You may not remove the incomplete from your transcript by re-enrolling in the class during another semester.

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

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Meaning</th>
<th>Quality Points per Credit Hour</th>
<th>Used to Calculate GPA?</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>Distinguished work</td>
<td>4</td>
<td>Yes</td>
</tr>
<tr>
<td>A</td>
<td>Distinguished work</td>
<td>4</td>
<td>Yes</td>
</tr>
<tr>
<td>A-</td>
<td>Distinguished work</td>
<td>3.7</td>
<td>Yes</td>
</tr>
<tr>
<td>B+</td>
<td>Superior work</td>
<td>3.3</td>
<td>Yes</td>
</tr>
<tr>
<td>B</td>
<td>Superior work</td>
<td>3</td>
<td>Yes</td>
</tr>
<tr>
<td>B-</td>
<td>Superior work</td>
<td>2.7</td>
<td>Yes</td>
</tr>
<tr>
<td>C+</td>
<td>Average work</td>
<td>2.3</td>
<td>Yes</td>
</tr>
<tr>
<td>C</td>
<td>Average work</td>
<td>2</td>
<td>Yes</td>
</tr>
<tr>
<td>C-</td>
<td>Average work</td>
<td>1.7</td>
<td>Yes</td>
</tr>
<tr>
<td>D+</td>
<td>Below-average work</td>
<td>1.3</td>
<td>Yes</td>
</tr>
<tr>
<td>D</td>
<td>Below-average work</td>
<td>1</td>
<td>Yes</td>
</tr>
<tr>
<td>D-</td>
<td>Below-average work</td>
<td>0.7</td>
<td>Yes</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
<td>Yes</td>
</tr>
<tr>
<td>P</td>
<td>Pass: satisfactory work</td>
<td>0</td>
<td>No</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete (See Incomplete Grades in this chapter.)</td>
<td>0 (until changed to a letter grade)</td>
<td>No</td>
</tr>
<tr>
<td>W</td>
<td>Student withdrew from the course</td>
<td>0</td>
<td>No</td>
</tr>
<tr>
<td>AUD</td>
<td>Course was taken under audit status</td>
<td>0</td>
<td>No</td>
</tr>
<tr>
<td>UAU</td>
<td>Unsatisfactory Audit (did not meet requirements set by instructor)</td>
<td>0</td>
<td>No</td>
</tr>
<tr>
<td>IP</td>
<td>In-Progress (used for dissertation, portfolio, project, and thesis work in progress*)</td>
<td>0 (until changed to a letter grade)</td>
<td>No</td>
</tr>
<tr>
<td>CW</td>
<td>Student completely withdrew from all classes that semester</td>
<td>0</td>
<td>No</td>
</tr>
</tbody>
</table>

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

Questions About Grades?

If you have questions about grades, contact the Registrar’s Office, Administration Building, Room 110, (208) 426-4249.
In general, the costs of attending Boise State University arise from tuition, institutional fees, and special fees (such as fees for private music lessons or laboratory classes). Your actual costs depend on how many classes you take, the type of classes you take, and your status as a resident or nonresident student. In addition to these fees, you may also have to pay such additional charges as workshop fees or materials charges, depending on the type of classes you take.

This chapter defines the current tuition and fees for attending Boise State University and provides other information about tuition and fees, including information on deadlines, deferred payment, and the senior-citizen rate. Also included in this chapter are some of the more commonly asked questions about Idaho residency requirements.

### Deadlines for Paying Tuition, Fees, and Other Charges

You are expected to pay all tuition, fees, and other charges by the deadline specified in the current academic calendar. If you register after the deadline, you will be expected to pay all tuition, fees, and other charges when you register. You may pay with cash, check, Visa, MasterCard, or Discover.

Access your student account on myBoiseState (https://my.boisestate.edu/) to find out deadlines for paying tuition, fees, and other charges. Boise State does not mail out paper statements. Log in to myBoiseState (https://my.boisestate.edu/), select Student Center, under Finances section select Account Inquiry. Please contact the Payment and Disbursement Office, Administration Building, Room 101 or call (208) 426-1212, for specific fee information. Other financial information is available on the Student Financials website at https://vpfa.boisestate.edu/student-financial-services/.

### Deferred Payment of Tuition, Fees, and Other Charges

If you are unable to pay tuition and fees before the deadline established in the current academic calendar, you may be able to pay your fees in three equal installments. To do so, you must be registered for two or more billable credits, and you must not have delinquent or past-due accounts with the university.

To enroll in the fee payment plan, you must complete the request on myBoiseState (https://my.boisestate.edu/). Select Student Center, under the Finances section select Other Financial drop-down menu, select Enroll in Payment Plan, click on blue arrows. At the time of the submission, your fees will be split into three equal installments. The installments will be due on or before August 25, September 25, and October 25 for the fall semester and on or before January 25, February 25, and March 25 for the spring semester. A $30 nonrefundable administrative fee will be charged to use the plan. For more information concerning the fee payment plan, visit the Payment and Disbursement Center, Administration Building, Room 101, or call (208) 426-1212.

The fee payment plan must be submitted before the fee payment deadline to avoid the $50 penalty. In the event that you withdraw from school or are administratively withdrawn after the refund period, any balance owing on the installment plan will be immediately due and payable.

Note: Delinquent balances will be assessed a late charge of 1.75% per month or $10.00, whichever is greater, and you will forfeit any opportunity to defer payment in the future.

If financial aid arrives before your fee payment plan is repaid, the financial aid will be applied to the amount you still owe. This application of financial aid takes precedence over any other method of repayment. If you defer payment and then withdraw from the university, Boise State will deduct the amount owed on your account from any refund you may be eligible to receive. You will also be charged a $40.00 complete withdrawal fee.

If your tuition, fees or other charges remain unpaid, you may be sent to an outside collection agency and will be responsible for any additional collections fees.

<table>
<thead>
<tr>
<th>Type of Class</th>
<th>Resident</th>
<th>Nonresident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Lecture</td>
<td>$10,670.40</td>
<td>$12,638.00</td>
</tr>
</tbody>
</table>

In determining whether you have reached the milestone of 9 credits per semester, Boise State counts all credit hours on your registration form, including credit hours under audit status, credit hours for courses you are repeating, and credit hours for workshops. In short, nearly every combination of any type of credit hour counts toward that 12-credit milestone. Please note, also, that developmental courses (such as MATH 25 Elementary Algebra) count as 3 credits each toward the 12-credit milestone, even though you earn no credits by taking the course.

Note: Tuition, fees, and other charges are subject to change at any time by the Idaho State Board of Education, acting as the Board of Trustees for Boise State.

### Other Fees and Charges

If you enroll for fewer than nine credits, your fees are calculated according to the schedule shown in the following Table 5. Among the fees listed in Tables 5 and 6 are an application processing fee, music fees, special fees, and an overload fee. You pay the music fee if you register for private music lessons, and you pay the per credit rate of $239.00 when you register for (over 16 credits) in a single semester.

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

<table>
<thead>
<tr>
<th>Semester or Session</th>
<th>Resident Per Credit</th>
<th>Nonresident Per Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2018 and Spring 2019</td>
<td>$448.00</td>
<td>$787.00*</td>
</tr>
<tr>
<td>Summer 2019</td>
<td>$448.00</td>
<td>$448.00</td>
</tr>
</tbody>
</table>

*Includes $339.00 nonresident per credit tuition fee.
TUITION AND FEES

Idaho Senior Citizen’s Fee Reduction

If you are an Idaho resident and are at least 60 years old, you are eligible for the Idaho Senior Citizen’s Fee Reduction (senior citizen rate). With this rate, when you register for courses, you pay $5 per credit, a $20 registration fee (per semester), and any additional related course fees (e.g., labs, online, private music lessons, workshops). Once you’ve been admitted to Boise State, request the senior citizen rate from the Payment and Disbursement Center (Administration Building, Room 101, or call (208) 426-1212) by providing a driver’s license, birth certificate, or other proof of age. Some programs are not available for the senior citizen rate like self-support and noncredit programs (e.g., the Osher Lifelong Learning Institute). With the senior citizen rate, you will be able to register for classes during open enrollment (see the Academic Calendar Deadlines by Session table for specific dates). If you wish to register earlier, you must opt out of the senior citizen rate and complete the Senior Citizen Fee Rate Waiver form at https://registrar.boisestate.edu/forms/student-forms/.

Refund Policy

In general, if you completely withdraw from Boise State on or before the tenth day of the semester for regular session classes, you are eligible to receive a full refund of the money you paid to register (less a nonrefundable $40.00 complete withdrawal fee). If you withdraw after the tenth day of classroom instruction, you receive no refund. See the academic calendar in this catalog for deadlines of the other sessions. No refunds for private music lessons can be granted after the first five days of classroom instruction.

Note: In determining whether you have met the deadline and are therefore eligible for a refund, Boise State considers only the date on which you officially withdrew—not the date on which you stopped attending class. Please note, also, that registering late has no effect on refund deadlines; Boise State cannot extend the deadlines to take into account a late registration. In summary, you must completely withdraw from the university no later than the tenth day of classroom instruction. See the Academic Calendar Deadlines by Session table in this catalog for deadlines of the other sessions.

This general refund policy applies to full-time and part-time students regularly enrolled at the time of the withdrawal. However, the policy may not necessarily govern refunds for short courses, workshops, and continuing education classes. Because refund policies for such classes may vary, you should direct any request for a refund to the academic unit or organization offering the class.

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

Information on fee appeals may be obtained in the Account Maintenance Center, Administration Building, Room 101, (208) 426-2134.

Idaho Residence for Tuition Purposes

Procedures to have your Residency Status Reviewed

Your legal residence for fee purposes is determined at the time of initial application for admission to Boise State and remains unchanged in the absence of satisfactory written evidence to the contrary. The burden of proof in requesting reclassification to resident status rests with you in providing clear and convincing evidence of residency for tuition purposes as defined by the law. If you are applying to change a nonresident classification from the point of application or are requesting consideration for reclassification based upon satisfying state law criteria must follow the procedure outlined below:

1. Contact the Residency Coordinator in the Registrar’s Office, Room 110, Administration Building.
2. Complete the Idaho Residency Determination Worksheet and return it to the Residency Coordinator with supporting documentation. A form requesting reclassification to resident status may be filed after qualifying criteria have been satisfied but no later than 10 school days after the opening of the semester for which the change in status is requested.
3. The Residency Coordinator will determine if you meet the criteria for residency and will notify you in writing of the decision.
4. You may appeal the decision of the Residency Coordinator in writing to the Residency Appeals Committee. To file an appeal the applicant must specify in writing why you believe you have met the criteria and on what basis you should be given residency. The appeal should be turned in to the Residency Coordinator. You will be notified in writing of the decision of the Residency Appeals Committee.
5. If you contest the determination of the Residency Appeals Committee that you are not a qualified resident, you may petition the State Board of Education for review. The petition must be submitted to the President of Boise State University in writing and must set forth your reasons for contesting the decision. The President will submit the petition to the Executive Director of the Office of the state Board of Education who will determine whether the Board or the Board’s designated representatives will hear the appeal. If the Board decides to hear the appeal, it will set forth the scope of review and notify you of the time, date, and place of the hearing. The decision of the Board is final and binding on all parties concerned. You must agree to the release of information to the review body and must comply with deadlines established by the institution for requesting an appeal.

Initial Determination of Residency Status

When you apply to Boise State, Admissions determines your status as a resident or nonresident for tuition purposes. After you have been admitted, if you have questions about your residency status, please contact the Registrar’s Office at (208) 426-4249.

Relevant Law and Regulations

The statutory and regulatory provisions relevant to residency determinations may be found at:

- Idaho Code Section 33-3717B (institutions other than community colleges)
- Idaho Code Section 33-2110A (community colleges) IDAPA 08.01.04.

As an enrolled Boise State student, you may prove classification as an Idaho resident for tuition purposes by meeting the criteria for one of the following options.

1. Dependent Student: You have one or more parent(s)/legal guardian(s) who is domiciled in Idaho and provides at least 50% of your financial support. The parent/legal guardian must have maintained a bona fide domicile in Idaho for at least 12 months prior to the term in which you are applying for residency.
2. Independent Student: You receive less than 50% financial support from a parent/guardian and have continuously resided in, and maintained a bona fide domicile, in Idaho for purposes other than education for at least 12 months prior to the term in which you are applying for residency.
3. Graduate of an Idaho High School: You are a graduate from an accredited Idaho high school, are domiciled in Idaho, and have an enrolled in an institution within eight years immediately following secondary school graduation regardless of the domicile of your parent or guardian (except if a non-US citizen (see, definition of non-resident below)).
4. Completed 6 Years of Elementary and Secondary Education in Idaho: You have completed 6 years of elementary and secondary education in Idaho, are domiciled in Idaho, and have matriculated at an institution within 8 years following completion of secondary education.

| Table 6 |
| Fees for Private Music Lessons |
| Credit | 2 Credits | 4 Credits |
| $200 | $400 | $400 |
5. Married to an Idaho Resident: You are married to a person who is classified, or eligible for classification, as an Idaho resident for the purpose of attending an institution, except that if you were enrolled full-time in any term during the 12-month period before the term in which you are proposing to enroll as a resident, then you must independently establish domicile.

6. Armed Forces: You, your spouse, or—if you are a dependent student—your parent/guardian meets one of the following criteria:
   a. Member of the Armed Forces who entered service as an Idaho resident, has maintained Idaho resident status, but is stationed outside of Idaho on military orders.
   b. Member of the Armed Forces stationed in Idaho on military orders.
   c. Officer or enlisted member of the Idaho National Guard.
   d. Member who has been separated, under honorable conditions, from the Armed Forces after at least 2 years of service.
      i. Who at the time of separation designated Idaho as the intended domicile, and within 1 year of the date of separation enters an Institution.
      ii. Who listed Idaho as the home of record in service, and within 1 year of the date of separation enters an Institution.
      iii. Who moves to Idaho for the purpose of establishing domicile; provided however, to maintain status as a resident student, such person must actively establish domicile in Idaho within 1 year of registration at an Institution.

7. You are a member of the following Idaho Native American Indian Tribes: Members of the following Idaho Native American Indian Tribes whose traditional and customary tribal boundaries included portions of the state of Idaho, or whose Indian tribe was granted reserved lands within the state of Idaho:
   - Coeur d’Alene
   - Eastern Shoshone
   - Kootenai
   - Nez Perce
   - Shoshone-Bannock
   - Shoshone-Paiute

8. You are a student who has earned a baccalaureate degree from a public institution (or institution pursuant of Idaho Code 33-2402) of higher education and physically resided in Idaho for the final 12 months of undergraduate studies and enrolled no later than 36 months after receiving a baccalaureate degree from the undergraduate institution.

**Becoming an Idaho Resident**

A domicile is your true, fixed and permanent home, and place of habitation; it is the place where you intend to remain and expects to return to when leaving without establishing a new domicile elsewhere. If you are a dependent student, residency is based on the domicile of your parent or legal guardian. If you are an independent student, residency is based on your domicile or your spouse’s.

Domicile may be proved by:

1. If you were attending school full-time, the filing of Idaho state income tax return covering a period of at least 12 months before the term in which the student proposes to enroll as a resident student and permanent full-time employment (30 hours per week, or 120 hours per month) or the hourly equivalent in Idaho for a period of at least 12 months before the term in which the student proposes to enroll as a resident student.
2. If you weren't attending school full-time in the prior year, proving at least five of the following type of criteria for 12 months before the term for which residency is sought:
   a. Ownership or leasing of a residence in Idaho;
   b. Registration and payment of Idaho taxes or fees, other than sales or income tax;
   c. Registration to vote in Idaho;
   d. Holding an Idaho driver’s license or ID card;
   e. Evidence of abandonment of a previous domicile;
   f. Establishment of accounts with Idaho financial institutions;
   g. Other similar factors such as:
      i. Enrollment of dependent children in Idaho elementary or secondary schools
      ii. Acceptance of permanent employment in Idaho
      iii. Documentation of need to care for relative in Idaho
      iv. Utility statements
      v. Employment documentation

**Important Definitions**

**Non-resident** student means you meet one of the following:

1. Do not qualify for residency under the above options; or
2. Attend an institution with financial assistance from another country or governmental unit or agency thereof, such non-residency continuing for 1 year after completion of the term for which such assistance is last provided; or
3. Are not a citizen of the United States, unless you can provide verification of lawful presence in the United States “Lawful presence” is verified through the means set forth in Idaho Code, 67-7903. As a non-citizen who can provide verification of lawful presence in the United States, you must meet one of the seven pathways to establish residency set forth above.

**Continuously Resided** means you have maintained a physical presence in Idaho for 12 consecutive months. As an independent student you must have continuously resided in Idaho for the 12-months prior to the term for which residency is sought. Evidence of physical presence in Idaho might include: utility statements, rental agreement, bank statements, documentation from an Idaho employer, etc.

**Primarily Educational Purposes** means enrollment in 12 or more credit hours in any term during the past 12 months.

**Armed Forces** means the United States Army, Navy, Air Force, Marine Corps, Coast Guard, and the reserve forces of those groups and does not include the National Guard or any other reserve force.

**Idaho Residency Laws**

The residency laws can be found at https://www.legislature.idaho.gov/idstat/Title33/T33CH37SECT33-3717B.htm.

**Questions About Tuition and Fees?**

If you have questions about tuition and fees, contact the Account Maintenance Center, Administration Building, Room 101, (208) 426-2134.

**Questions About Residency Status?**

If you have questions about residency status, contact the Registrar’s Office, Administration Building, Room 110, (208) 426-4249.

**Questions About Other Financial Aid?**

If you have questions about financial aid, contact the Financial Aid Office, Administration Building, Room 117, (208) 426-1664.
Financial Aid and Scholarships

As a graduate student at Boise State University, you may apply for a wide variety of financial aid, drawn from an equally wide variety of sources. You should investigate any financial aid that seems appropriate to your circumstances, beginning with financial aid available from your department or your graduate degree program.

Graduate Assistantships

Most departments award teaching or research assistantships that include a stipend and a waiver of tuition and fees. You may obtain an application for an assistantship at https://graduatecollege.boisestate.edu/, from the department in which you are applying, or from the Graduate College, Riverfront Hall, Room 307. For additional information, please see Boise State University Policy #7170 at https://policy.boisestate.edu.

Deadline for Departmental Aid

You should apply for these awards when you apply for admission to the Graduate College—no later than March 1. Some departments require an application deadline the first week in January. If your application is received by the department after the required deadline, it may not be considered until the following year.

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

Federal, State, and Institutional Aid

As a graduate student, you can apply for loans and work-study through the federal aid programs. Complete the following steps to apply for federal aid:

How to Apply for Financial Aid

1. Complete the Free Application for Federal Student Aid (FAFSA). You must submit the FAFSA each year to be determined eligible for federal loans and work study. Some need-based scholarship programs also require the filing of a FAFSA. You may use one of the following methods to apply:
   - Apply using FAFSA on the web (https://fafsa.gov/). If you have applied for aid in prior award years, use your FSA ID to log in. If this is your first time completing the FAFSA, you will set up an FSA ID as part of the FAFSA application process.
   - Apply using renewal FAFSA on the web (https://fafsa.gov/). If you applied for aid the previous year, the renewal application is simply a FAFSA that contains most of the information you provided last year. Updating the information may be faster for you than filling out a new FAFSA.
   - Apply using the paper FAFSA. The paper FAFSA is a form that you can print from the federal website (https://fafsa.gov/) if you prefer to apply by mail. However, be warned that filing a paper FAFSA may add weeks to the time required to process an application.

Tips on Completing the FAFSA

• Provide all required signatures; use your FSA ID as a signature.
• Do not send tax documents or other materials with your application or signature page.
• If you provided an email address on the FAFSA, you will receive an email with a link to your Student Aid Report (SAR). If you left the email address question blank, you will receive your SAR through the regular mail. Review your SAR and make any necessary corrections.

2. Submit additional materials, if requested. The Financial Aid Office uses myBoiseState (https://my.boisestate.edu/) and BroncoMail to alert students of the need to provide additional materials, if required. Certain applicants are requested to provide documents to verify information reported on the FAFSA. Examples of requested documents include:
   - Verification forms
   - Citizenship documents. A birth certificate, passport, Alien Registration Card, or a Social Security Card
   - Additionally, you may be asked to use the “Retrieve IRS data” tool featured in your FAFSA application to migrate income and tax information directly from the IRS into your financial aid application.

3. Complete actions identified on myBoiseState
   - Loan entrance counseling and Master Promissory Note online activities will be identified as To Do items if you need to complete them.
   - Award acceptance. Once processing of your application is complete, your award information will appear on your myBoiseState (https://my.boisestate.edu/) student account. You may accept, reduce, or decline your awards on myBoiseState.

4. Be aware of the following deadlines
   - February 15: Final deadline for incoming and continuing students to submit the FAFSA, and complete the online scholarship application to be considered for many scholarships. If you meet this deadline, you are given priority status and may be considered for work-study.
   - June 1: Recommended final date to submit FAFSA application and all documents and other information requested by the Financial Aid Office to ensure that your financial aid will be available for the first disbursement of fall semester.

   If you miss these deadlines, you may still apply for federal aid. However, processing of FAFSA applications received after the deadlines may not be completed in time for aid availability by fee payment deadline or when classes begin.

5. Applying for Summer Aid

Most financial aid is awarded for use during the fall and/or spring semester(s). Some students may have remaining eligibility for summer loans. See https://financialaid.boisestate.edu/handbook/apply-for-aid/summer/ for details on applying for summer aid, deadlines, etc. For summer 2019 aid consideration, make sure that you have completed the 2018-2019 FAFSA.

6. Staying Informed

Most official correspondence will be sent to your student email account. Remember to check your BroncoMail at least weekly to determine if additional information is needed. To easily find financial aid updates, review information at https://financialaid.boisestate.edu/. Information is updated regularly on policy changes or other important information that might affect your financial aid. You can also “Like” the Boise State Financial Aid Facebook page to receive updates.
Eligibility Requirements

The following is a summary of the most common criteria affecting your eligibility for financial aid. Eligibility requirements are explained in more detail at: https://financialaid.boisestate.edu/aid-handbook-and-policies/.

- Complete the application process after October 1st prior to each aid year for which you desire to be considered for financial aid (see details under “How to Apply for Financial Aid”).
- Be admitted to Boise State and be matriculated into a degree-seeking program or a certificate program approved for financial aid.
- Register for classes by the tenth day of the semester.
- Maintain Satisfactory Academic Progress Standards (see details on the following page).
- Have a high school diploma or GED. In most cases, if you have been home-schooled and have been admitted to Boise State into an approved degree or certificate program you will also be eligible.
- Be a U.S. citizen, permanent resident or eligible noncitizen. If you are attending Boise State on a student visa, you are ineligible for federal aid, but may apply for scholarships.
- If you are male, you must be registered with Selective Service.
- You must not owe a repayment of any federal aid to Boise State, to any other school previously attended, or to the U.S. Department of Education.
- You must not be in default on a federal student loan or owe a repayment of grant funds.
- Submit all verification materials requested by the Financial Aid Office as soon as possible, but no later than the specified deadlines. Examples of requested materials include citizenship documents, proof of untaxed income, or proof of high school graduation. You may also be asked to complete the IRS data retrieval process.
- You must meet all other eligibility requirements. Please contact the Financial Aid Office if you have any questions.

Sources of Financial Aid

William D. Ford Federal Direct Loans

Unsubsidized Direct Loans are long-term loans available to graduate students. The interest rates on newly originated Direct Loans for 2018-2019 is 5.05%. To apply, complete the FAFSA, available at https://fafsa.gov/.

Boise State processes Direct Loan applications throughout the year. If you are awarded a Direct Loan, you will need to sign a master promissory note (MPN) if you do not already have an MPN on file. If you have not previously received a Direct Loan, you must complete a loan entrance counseling session (https://financialaid.boisestate.edu/handbook/types-of-aid/loans/loan-counseling/) before you can receive the funds. Also, the Direct Loan commits you to participating in an exit loan counseling session when you graduate or withdraw from the university.

You are expected to begin repaying the Direct Loan six months after graduation or six months after you have dropped below five credit hours. Please see the exit counseling information link on the following website for more information: https://financialaid.boisestate.edu/handbook/types-of-aid/loans/loan-counseling/.

Table 7, below, shows estimated repayment schedules for typical Direct Loans. Your actual debt and repayment plan may not match any of these examples; they are presented here merely to show typical loan amounts and repayment plans.

<table>
<thead>
<tr>
<th>Loan Amount</th>
<th>Number of Payments</th>
<th>Monthly Payment</th>
<th>Total Interest</th>
<th>Total Repaid</th>
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<td>$54.00</td>
<td>$1,448.00</td>
<td>$6,448.00</td>
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<tr>
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<td>120</td>
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<td>$2,888.00</td>
<td>$12,896.00</td>
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<td>$3,813.00</td>
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<td>120</td>
<td>$269.00</td>
<td>$7,238.00</td>
<td>$32,238.00</td>
</tr>
</tbody>
</table>

Federal Direct Loan Estimated Repayment Schedule (based on 5.05% interest rate)

Federal Graduate PLUS Loans

Federal Graduate PLUS Loans are available to graduate students. These loans are available to graduate students who still have an unmet cost of attendance after borrowing through the Direct Loan program, plus any other sources of aid. Other differences between the Federal PLUS Loan for Graduate Students and other federal loan programs include:

- You must not have an adverse credit history, as reported by a national credit reporting agency. If you have an adverse credit history, you may still qualify with an eligible co-signer.
- Repayment begins within 60 days of the last disbursement of the award year.
- The interest rate changes annually; the rate for 2018-2019 is 7.00%.
- Annual loan limits are determined by subtracting all other sources of aid from the estimated cost of attendance figure.
- A separate PLUS Master Promissory Note must be completed and signed.
- You must complete separate PLUS loan counseling requirements. In addition to the requirements reported above, you must meet all other eligibility requirements. For more information on the Federal PLUS Loan for Graduate Students, please visit https://financialaid.boisestate.edu/

Federal Work-Study Program (FWS)

This program gives you the opportunity to earn money to pay for a portion of your educational expenses. FWS aid is awarded to selected graduate students who show financial need. You receive payment based on hours worked. Payment is typically through direct deposit by the payroll office.

Atwell J. Parry Idaho Work-Study Program

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

The GEM Nonresident Tuition Waiver

The merit-based GEM Scholarship for graduate students waives nonresident tuition for out-of-state and international graduate students with an overall GPA of at least 3.30 who are accepted into an eligible graduate degree program. (https://graduatecollege.boisestate.edu/fundinggraduateschool/merit-based-gem-scholarship/).

You must submit an application; you are not automatically considered for the waiver. Visit https://secureforms.boisestate.edu/gradcoll/gem-scholarship-application/.

For additional information, see the Graduate College website (https://graduatecollege.boisestate.edu/fundinggraduateschool/).

The waiver is renewable for an additional year if you complete a minimum of 18 graduate credits in the first two semesters and maintain a 3.00 GPA.
Scholarships

Information about scholarships can be found at https://financialaid.boisestate.edu/scholarships or https://graduatecollege.boisestate.edu/.

Short-Term Loans

Emergency Short Term Loans are available if you have a minimum grade-point average of 2.00. This loan is available if you experience a significant financial emergency during the academic year. The maximum amount available is $250 per semester. Only one loan is given per semester. The loan requires a $25 processing fee, and must be repaid within 90 days. Applications are available in the Account Maintenance Office, Administration Building, Room 101.

Financial Aid for the Summer Session

The university has limited financial aid available for the summer session. If you need financial aid for the summer session, review the information on the Financial Aid website at https://financialaid.boisestate.edu. Please note, also, that your FAFSA for the preceding academic year must be submitted by March 15 to ensure your summer aid is ready before your summer classes begin.

Financial Aid for International Students

As part of the admissions process as an international student, you must demonstrate that you have sufficient funding to attend Boise State University for one academic year. You are eligible for scholarships and tuition waivers outlined in this Financial Aid section, except for financial aid provided by the U.S. government or State of Idaho. As you apply for graduate admission to Boise State University, the application packet you receive from International Admissions contains a brochure explaining the various financial resources that are available.

Disbursing Funds

In March, the Financial Aid Office begins notifying scholarship recipients for the upcoming year. Federal loans are awarded as applications are processed. In the fall, if you have cleared your “to do” items on my BoiseState by July 1, your financial aid will be applied to your student fees approximately one week before the start of classes. Any remaining funds will be electronically deposited into your bank account or a check will be mailed to you prior to the start of classes. Again in the spring, financial aid will be applied to your student account approximately one week prior to the start of classes. Any excess aid will be mailed to you or electronically deposited prior to the start of classes.

Change in Enrollment Status

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

Partial Withdrawals

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

Complete Withdrawals

In general, you will receive no refund of tuition and fees if you withdraw from the university after the tenth day of classroom instruction. Federal financial aid regulations state that eligibility for aid be recalculated whenever you withdraw from Boise State University, either officially or unofficially. The recalculation determines the amount of aid you have “earned,” by prorating according to the percent of the term completed before withdrawing. For example, if you withdraw after completing only 30 percent of the term, you will have “earned” only 30 percent of aid eligibility. If you complete more than 60 percent of the term, you are considered to have “earned” 100 percent of your aid eligibility.

Examples of these calculations can be found at: https://financialaid.boisestate.edu/sapdocuments/. In addition, if you are attending a shorter session (a “module”), you may need to re-confirm future attendance in that term; otherwise, a withdrawal calculation will be done. Once you officially withdraw, the Financial Aid Office will determine if/what is owed and will provide notification of adjustments to financial aid funding. If you have questions about what will happen when you withdraw, review the information on the website at: https://financialaid.boisestate.edu/handbook/impacts-on-aid/dropping-classes/. After reviewing that information, if you still have questions, contact the Financial Aid Office.

Unofficial Withdrawals

The university is required to verify attendance/participation for any student who unofficially withdraws or receives all F grades for a term. If attendance/participation cannot be verified, students will be required to immediately repay all financial aid received for that term.

Satisfactory Academic Progress

If you are applying for or receiving financial aid, you must make satisfactory academic progress at the university. These requirements are monitored at the end of each semester, soon after the semester’s grades are made official. Your academic progress is considered satisfactory if you:

- maintain a minimum comprehensive GPA consistent with university requirements.
- pass 75% of all credit hours attempted while enrolled as a graduate student at Boise State University, and
- complete your degree requirements within the maximum time allowed.

Review the complete satisfactory progress policy at https://financialaid.boisestate.edu/sapdocuments/.

Satisfactory Academic Progress Review

The university reviews financial aid files at the end of each term. If you are not making satisfactory academic progress or do not meet the term completion requirements (as defined in the policy on the website and briefly outlined above), you will be ineligible for financial aid until you are once again making satisfactory academic progress.

Appeals

If there were extenuating circumstances impacting your ability to meet the Satisfactory Academic Progress Standards, you have the right to file a written appeal for a temporary exemption from this policy. Examples of extenuating circumstances include the death of an immediate family member, illness or injury to the student, or similar circumstances. In filling an appeal, you must document any extenuating circumstances that prevented you from making satisfactory academic progress. Appeal forms may be downloaded from the website at https://financialaid.boisestate.edu/sapdocuments/.

Staying Informed

Official correspondence will be sent to your student email account. Remember to check your BroncoMail at least weekly to determine if additional information is needed. To easily find financial aid updates, review the information at https://financialaid.boisestate.edu. Information is updated regularly on policy changes or other important information that might affect your financial aid. You can also be a fan of the Boise State Financial Aid Facebook page to receive updates.

Questions About Financial Aid?

If you have questions about financial aid, contact the Financial Aid Office, Administration Building, Room 113, (208) 426-1664 or (800) 824-7017, or by email: financialaid@boisestate.edu.
The department of Housing and Residence Life provides on-campus housing options for Boise State students in several distinct residential communities, all located within walking distance from campus. Students can choose residence hall, suite-style, and townhouse living options, all with individual licensed bed spaces for the full academic year; or one of four apartment complexes designed for sophomore and above, graduate, and family housing.

Housing and Residence Life professional and student paraprofessional staff members create an inclusive, safe, learning-centered, and caring community environment where residents develop meaningful and lasting relationships with each other and engage in campus life.

**Fair-Housing Policy**

Boise State is an equal-opportunity institution, offering its living accommodations and making housing assignments without regard to race, color, national origin, or handicap (as provided for in Title VI and Title IX and Sections 503 and 504 of the Rehabilitation Act of 1973).

**Rules and Regulations**

Housing and Residence Life community standards, expectations, procedures, as well as Boise State rules and regulations are defined more specifically in the Residence Hall & Dining Agreement, Student Code of Conduct, and online at https://housing.boisestate.edu/.

**Graduate Housing**

Housing and Residence Life has identified specific communities that can be conducive to meeting the demands of being a graduate student. All other residential facilities are designed to address the needs of first-year and other undergraduate students.

Aspen, Cedar, Hawthorne, Juniper, Spruce, and Tamarack Townhouses are available to sophomore and above students, including graduate students, and are specifically designed for students who want to live in single rooms. Each unit features furnished living rooms, private and semi-private bathrooms, modern kitchens including energy efficient appliances, washer/dryer, and four single rooms. High-speed Internet, HD cable TV, and utilities are included in the room cost. Meal plans are not required, but recommended and can be added to the student account.

University Heights and University Manor consist of one and two bedroom apartments. Each unit has a wall-unit air conditioning/heating system, stove, and refrigerator. Laundry facilities are located on-site, with machines taking credit and debit cards — laundry is not included in rent. All utilities (electricity, gas, water, sewer, trash, cable and Internet) are provided for a utilities flat fee.

**University Park** consists of two and three bedroom apartments. Each unit has a wall-unit air conditioning/heating system, stove, and refrigerator. Laundry facilities are located on-site, with machines taking credit and debit cards — laundry is not included in rent. All utilities (electricity, gas, water, sewer, trash, cable and Internet) are provided for a utilities flat fee.

**University Village** consists of two bedroom apartments. Each unit has central air conditioning/heating, stove, refrigerator, and dishwasher. Laundry facilities are located on-site, with machines taking credit and debit cards — laundry is not included in rent. All utilities (electricity, gas, water, sewer, trash, cable and Internet) are provided for a utilities flat fee.

**How to Apply for Housing**

To apply online for housing, please go to https://housing.boisestate.edu/ and click the Apply for Housing link. In the application, you will be directed to pay a $50 nonrefundable application fee through the Touchnet System. In addition:

- Prospective residence hall, suite, and townhouse residents will be directed to pay a $250 down payment at the time of application, which will be applied to your rent. Before an application can be processed and you are assigned, the application fee and down payment must be paid.
- Prospective apartment residents will receive an apartment offer and once that offer has been accepted, you will need to pay a $250 non-refundable reservation fee that will be converted to a security deposit at the time of license agreement signing.

Note: The application process to live with Housing and Residence Life is a separate process from the one to apply for admission to the university. If you apply for housing, it does not constitute acceptance or approval for admission to the university. Nor does being accepted for admission to the university signify that your application for housing has been accepted and approved.

**Housing Preferences**

When your application for on-campus housing is complete, you will be assigned to designated graduate student spaces whenever possible based on the date of your completed application and availability of spaces at the time of assignment.

**Questions About On-Campus Student Housing?**

If you have any questions about Housing and Residence Life, contact us at (208) 447-1001, housing@boisestate.edu, or online at https://housing.boisestate.edu/.
Boise State University provides a variety of services, programs, and activities to help you obtain the maximum benefit from your university experience; most services are free if you are currently enrolled.

**Academic Programs and Services**

The following services are available to you if you are seeking assistance with academic matters, from improving your writing, reading, and study skills to planning for a career.

**Academic Support**

If you are currently enrolled, you are encouraged to utilize academic support services through campus drop-in centers, learning assistant-led study groups, online tutoring, and academic skill-building workshops, courses, and coaching. These services are provided to you at no additional cost.

Current schedules for all tutoring centers and Learning Assistant sessions are posted on the Advising and Academic Support Center website: [https://aasc.boisestate.edu/tutoring/](https://aasc.boisestate.edu/tutoring/).

Academic skill-building workshops in the areas of time management, reading and note taking strategies, study skills, and test anxiety are offered throughout the semester. Descriptions and schedules can be found at [https://aasc.boisestate.edu/study-skills-workshops/](https://aasc.boisestate.edu/study-skills-workshops/).

Academic Coaching is offered if you want one-on-one meetings to identify and build academic skills and motivation. Learn more and sign up at [https://aasc.boisestate.edu/academic-coaching/](https://aasc.boisestate.edu/academic-coaching/).

**The Career Center**

The Career Center provides career exploration/planning and job search services to all Boise State students. These services include career exploration and planning and job search assistance (résumé development, interview training, professional networking and job search advising), and coordination of the university’s internship and Work U programs. The Career Center’s web-based career-guidance tools focus on using your interests, skills, and values for exploring careers and making career choices. The Career Center sponsors multiple events to connect you with employers including annual career fairs and Meet the Employers Professional Series. Through BroncoJobs, you can access on- and off-campus student employment, internship, and career-employment opportunities as well as schedule on-campus interviews with participating employers. Further information is available at [https://career.boisestate.edu/](https://career.boisestate.edu/) or by calling (208) 426-1747.

**English Language Support Programs**

Free one-on-one English language tutoring and course advice available for multilingual English learners. Flexible hours are negotiable. Call (208) 426-3426 for information. Additional resources for multilingual students are online at [https://englishsupport.boisestate.edu/](https://englishsupport.boisestate.edu/).

**Graduate Student Orientation**

Once admitted, you will receive notice of your admission status, as well as information on the next steps to complete enrollment. In mid-summer an email will invite you to sign up for your Graduate Student Orientation; attendance is expected of all incoming Boise State students. Orientation is designed to ease your transition into the Boise State graduate student community and help you get strategic about getting educated and earning your degree. During the program you will meet deans and staff, and will learn more about Boise State. The orientation program is held in mid-August during the fall semester. Reservations are required to attend.

**Student Success**

Boise State offers a variety of student success (ACAD) courses. ACAD courses promote academic success through intentional assignments that emphasize skill-building, learning awareness, and academic goal setting. For more information, contact the Advising and Academic Support Center at (208) 426-4049 or aasc@boisestate.edu. You can find ACAD course descriptions in Chapter 12—“Academic Programs and Courses under Academic (Student Success Courses).”

**Test Preparation**

Assisting you in preparation for graduate admission exams for graduate school is the focus of short courses on the Graduate Record Exam (GRE), the Law School Admissions Test (LSAT), and the Graduate Management Admissions Test (GMAT) offered through the Center for Professional Development, in the Division of Extended Studies at Boise State. For more information, call (208) 426-1709.

**The Testing Center**

The university provides a variety of testing services to Boise State students and the community. Tests offered include: Accuplacer (for placement into math courses), CLEP (College Level Equivalency Placement), Residual ACT (only for use at Boise State), ESOL (English for Speakers of Other Languages), World Language Placement, International Student Admissions exams (TOEFL and IELTS) and the Miller Analogies Test (graduate admission).

For testing hours and appointments, call (208) 426-2762 or go to [https://testing.boisestate.edu/](https://testing.boisestate.edu/). You can also direct testing questions to TestingServices@boisestate.edu. Located in the Simplot Micron Academic Success Hub, 2nd Floor, Room E213.

**Writing Center**

The Boise State Writing Center is a free service open to all members of the campus community—students, faculty, and staff. We offer support and encouragement to all writers, primarily through one-to-one consultations, both in person and online. Each consultation is geared toward the individual needs of the writer and is a collaborative effort between writer and consultant. You can schedule a consultation by visiting us in Liberal Arts, Room 200 or at [https://writingcenter.boisestate.edu/](https://writingcenter.boisestate.edu/).

**Campus Recreation**

The Campus Recreation mission is to build an engaged community that encourages healthy, active people and enhances student success. Campus Recreation offers a wide array of opportunities for informal, instructional, and competitive recreation programs. The 105,000 square foot Student Recreation Center serves as the hub for university students, faculty, staff, and alumni who want to be healthy and active members of the Boise State community. Programs and services include personal training, competitive and recreational sports, club activities, group exercise, outdoor recreation, cardio and strength workout options. The Student Recreation Center is located at 1515 University Drive (located adjacent to the Student Union). For more information call (208) 426-1131, or visit [https://rec.boisestate.edu/](https://rec.boisestate.edu/).

**Aquatics Programming**

The 17,000-square-foot Aquatics Complex addition is a hub for water activities. With a multipurpose pool, recreation pool, and spa, the three bodies of water offer opportunities for lap swim, water exercise, swim lessons, water polo, kayaking instruction, relaxation, and more.
Club Sports Programming
Club Sports offers a variety of sporting choices in a variety of disciplines if you are interested in competition. Opportunities exist for you to learn a new sport or maintain a personal level of expertise in the sport you love. All clubs are student-led, operated, and funded. Clubs provide a chance for you to develop and implement leadership skills. Club members practice regularly and often compete against local and regional opponents. There are over 23 existing club sports, however if your interests are not represented, Campus Recreation is more than happy to help you start a new club.

Fitness Programming
The Fitness Program organizes over 40 free drop-in group exercise classes each week during the semester including classes like: cycling, Zumba, yoga, and Insanity™. Motivational help with becoming more active or working to reach a fitness goal is available, including premium classes, incentives, fitness testing, and personal training. Workshops related to fitness and health are offered to educate the Boise State community.

Informal Recreation
There are many opportunities to recreate at Boise State. The Student Recreation Center comprises a three-court gymnasium, four racquetball courts, aquatics center, rock climbing wall and bouldering cave, multipurpose rooms, and a full complement of strength and cardio equipment. In addition, there are locker rooms, saunas, equipment check out, and towel service are available.

Intramural Sports Programming
If you are interested in an organized athletic activity, the Intramural Sports Program establishes numerous on-campus leagues and tournaments. Both the novice and expert can experience fun competition in team, dual, and individual sports throughout the year. The biggest event is our annual Toilet Bowl (flag football) tournament, which is played on the famous blue turf to kick off Homecoming week.

Outdoor Programming
The Outdoor Program offers a wide variety of events and educational pursuits to keep students, faculty, staff and alumni involved and active exploring the mountains, rivers, and deserts of Idaho and beyond. Each year the Outdoor Program provides adventure-based instructional workshops, seminars, and trips for students of all ability levels, as well as a climbing gym, student leadership development, custom group adventures, and the region's largest four-season outdoor equipment rental operation. For more information on outdoor events call (208) 426-1946.

The Cycle Learning Center
The Cycle Learning Center (CLC) is a campus-based service focused on developing healthy and sustainable lifestyles by promoting the use of bicycles and multi-modal transportation options. As the university's centralized source for basic bicycle repair services, instructional clinics, and alternative transportation information, the CLC strives to create a hands-on learning environment that empowers you to explore sustainable transportation through educational programming, retail sales, and services.

Center for Global Education
The Center for Global Education (CGE) is the university division that provides leadership, coordination and support of campus-wide integration of global learning programs, international partnerships and cross-cultural engagement. Home to Global Learning Opportunities (study abroad), International Admissions, International Student Services, and the Intensive English Program, the Center for Global Education provides a variety of services, programs and activities. The CGE is located in SMASH 227. For more information call (208) 426-6243, or visit https://globaleducation.boisestate.edu.

Global Learning Opportunities
As a Boise State student, you have the opportunity to participate in academic programs around the world. There are summer, semester, and year-long study abroad options for which you receive academic credit at Boise State, with pre-departure planning and approval. These opportunities are affordable, with the option of using your financial aid and receiving scholarships. Most sites offer courses taught in English as well as opportunities to enhance foreign language skills.

If you participate in a Boise State Global Learning Opportunity, you may take advantage of international service-learning, internships, and volunteerism, as well as regular academic studies. For example, if you study in Puntarenas, Costa Rica, you can volunteer at a marine animal park. If you study in Bilbao, Spain, you can serve as an intern at a local company. If you study in China, you can serve as a conversation partner to Chinese students.

The benefits of an international experience are enormous. You will gain the ability to view your academic field from new perspectives; see and experience what you are studying at a personal level, enhance your cross-cultural communication skills, increase your self-awareness, and understand the American culture better. Additionally, graduates with international experience typically have a distinct advantage in the job market.

To receive credit for Global Learning Opportunities, you must register under the education abroad course number (INTPRGM 400 or INTPRGM 401). The Course Approval Form must be completed before departure to ensure proper evaluation of courses when the program is completed. Upon receipt of an official transcript, courses are evaluated and recorded to the Boise State transcript with transcript text indicating the location of study. Additional information, application forms and deadlines, final costs, and program prerequisites can be obtained at https://globaleducation.boisestate.edu/glo/ or call Global Learning Opportunities at (208) 426-2630.

International Student Services (ISS)
International Student Services provides comprehensive support services to international students as they integrate into the larger campus community. ISS acts as a welcoming center where international student needs can be met directly or referred to the appropriate community resource. ISS serves as the primary source of expertise regarding immigration and cross-cultural issues for the campus at-large, and as a liaison between faculty, staff and international students. ISS provides opportunities for intercultural engagement, supporting university efforts toward internationalization by bringing international and domestic community members together for cultural exchange. International Student Services is located in room 227 of the Simplot Micron Advising and Success Hub. For more information please visit us on the web at https://globaleducation.boisestate.edu/iss/ or call International Student Services at (208) 426-3652.

Health Services
Health Services provides the Boise State community with comprehensive health care that focuses on an integrated delivery model. Combining the highly skilled and licensed staff of the Medical, Counseling and Wellness departments enables you to retain, enhance, promote, and improve upon your physical, mental, and spiritual health. Health Services provides specialized resources, and experiential learning opportunities in support of the overall mission of Boise State.

Counseling Services
Provides services that enhance growth and development, help improve personal effectiveness and resilience, and promote success. We are here to help you deal more effectively with concerns that impact your pursuit of personal and academic goals. We have a diverse and experienced staff of psychologists, counselors, social workers, and supervised trainees. We provide a range of services that include individual, multi-person, and group counseling, consultation and crisis intervention, workshops and outreach presentations, all aimed at enhancing student success at Boise State.
Insurance and Billing
The Health Insurance and Billing Office can help answer general questions regarding health insurance and can provide you with resources that can assist you with plans on or off of the marketplace.

Affordable Care Act—Health Insurance Exchange Notice
The Marketplace is where individuals and families looking to buy health insurance can shop for, compare, and choose from several health coverage options. It also provides you basic information about eligibility for tax credits or subsidies.

- If you are an Idaho resident, visit the Idaho Marketplace at https://www.yourhealthidaho.org/.
- If you are an out-of-state student, visit https://www.HealthCare.gov/ to access insurance options available from your home state.
- If you are an international student, legally residing in the United States, you can purchase health insurance in the Marketplace; however, you are not eligible for tax credits or subsidies.

For additional information on insurance or finding a plan, contact the Health Insurance Office at (208) 426-2158, or email healthinsurance@boisestate.edu.

Medical Services
Your on-campus family doctor’s office. Whether you are sick, injured, or need care for a long-standing medical condition, Medical Services is equipped and staffed to take care of you. Services are located conveniently on campus and affordable. We give special attention to health promotion and disease prevention, and empower patients to take responsibility for their own health by making healthy choices. Appointment and urgent/walk-in services are available. Wellness Services empowers you in your lifelong commitment to health by providing comprehensive wellness resources to the campus community.

Wellness Services
Based in the Health Center, but has programming which occurs throughout campus, Wellness Services contributes to the integration of services by offering Dietitian Services, HIV Testing, and Health Coaching. Peer Educators provide outreach and education to students on a variety of health topics while receiving experiential learning opportunities and experiences.

Student Involvement and Leadership
As a Bronco, you are destined to do great things, but your success is not wholly defined by personal accomplishments. Success is also defined by the impact you have in the lives of others. The Student Involvement and Leadership Center works to build connections between Boise State students, the campus, and the local community. This is accomplished through leadership development programs, volunteer and service opportunities, student organizations, sororities and fraternities, and campus activities. You can write your own unique involvement story by joining any of the 200+ student organizations academic, cultural, recreational, and social organizations available. Through programs like Catalyst, LeaderShape, as well as domestic and international Alternative Breaks, you can get involved, connect with other students, the campus, and the community, while learning to reach your full capacity to impact and change the world.

For additional information and ideas on how to get involved, visit us on the second floor of the Student Union Building above the Boise River Café, find us online at https://getinvolved.boisestate.edu/, or call (208) 426-1223.

Associated Students of Boise State University
The Associated Students of Boise State University (ASBSU) advocates on behalf of Boise State students by promoting student engagement on university task forces, committees, and advisory boards, and by serving as a voice for student concerns. Further, ASBSU encourages student participation in university life by providing financial support to student organizations. ASBSU is made up of several bodies: elected and appointed student representatives in the Executive Council manage the internal and external affairs of the organization; students from academic and non-academic departments in the Student Assembly give opinion on university initiatives; and the Student Funding Board provides funding allocations for student organizations. ASBSU offices are located within the Student Involvement and Leadership Center on the second floor of the Student Union. For additional information, call (208) 426-4240 or visit https://asbsu.boisestate.edu/.

Other Student Services
Listed below are a number of services and programs provided to students, staff, and faculty, including services offered by the Advising and Academic Enhancement Office, the Veterans Services Office, and the Gender Equity Center.

Children’s Center
The University Children’s Center provides care for children eight weeks to five years of age. Operating hours are 7:00 a.m.–5:30 p.m., five days a week during fall and spring semesters and thirteen weeks of summer session. It is located at the corner of Beacon and Oakland Streets. The center is licensed through the City of Boise and accredited through NAEYC. The center accepts ICCP and Boise State students are charged a lower rate. To be considered for enrollment a child care application must be completed at the center. For more information and rates, call (208) 426-4404 or visit https://childrenscenter.boisestate.edu/.

Dean of Students
The Office of the Dean of Students (DOS) provides a variety of services designed to support student success and engagement at Boise State. The DOS plays a significant role in supporting and empowering students and their families during difficult times by providing service to students who need clarification and advice regarding a wide range of student-related issues related to campus life, student services, safety, individual concerns, and personal and family emergencies. Call (208) 426-1527 or visit https://deanofstudents.boisestate.edu/.

Educational Access Center
The center coordinates academic and housing accommodations for students who have self-identified as having a disability. In addition to working with students to establish reasonable and appropriate accommodations, the Educational Access Center provides students, faculty, and staff with information about specific disabilities and accessibility at Boise State. For further information, visit https://eac.boisestate.edu/ or call (208) 426-1583.

Gender Equity Center
The Women’s Center has been renamed the Gender Equity Center. This name change is the result of efforts to clarify that programs and services are centered on Gender Equity and open to all. The Gender Equity Center empowers you to achieve your academic goals by providing educational outreach, support services, and a safe place.

The staff promotes active citizenship and encourages dialogue about the social construction of gender and how gender interacts with race, ethnicity, class, sex, sexual orientation, ability, age, and nationality. Housed in the center are two lounges, one that is can be reserved by students and a LGBTQIA lounge with net stations, as well as a lactation room for nursing parents. Educational events are created by student staff members who welcome ideas and opportunities for collaboration within the three areas of focus: Women’s Student Services, LGBTQIA Student Services, and Violence Prevention and Support. No-cost, confidential advocacy for victims of sexual assault, relationship violence, and stalking are available, as well as support for personal,
Multicultural Student Services
Multicultural Student Services provides training, education, and advocacy for you on issues of power, privilege, oppression, works to raise awareness, conduct trainings, develop workshops and create programming that will address issues for both dominant and nondominant groups. Multicultural Student Services also provides a forum for education aimed at helping you learn multicultural skills and perspectives that you need for a successful experience at Boise State and beyond. All of these efforts are an expression of our commitment to a philosophy of Inclusive Excellence at Boise State. Multicultural Student Services is housed in the Student Diversity Center on the second floor of the Student Union Building, co-located with International Student Services. For more information please visit us on the web at https://mss.boisestate.edu/ or call us at (208) 426-5950.

Outreach Locations
Student services such as advising, registration, book sales, and library services are available at most off-campus sites. The outreach locations and phone numbers are listed in this catalog, An Introduction to Boise State, in the section about the Division of Extended Studies.

Student Diversity Center
Located on the second floor of the Student Union Building, (208) 426-5950, the Student Diversity Center houses both International and Multicultural Student Services and is a place where you can meet with other students in a relaxed, friendly atmosphere. The Student Diversity Center promotes cultural diversity and appreciation through campus-wide cultural awareness programs and through the support of Boise State's ethnic organizations' festivals and events provided through International Student Services, Multicultural Student Services and the Martin Luther King Jr. Living Legacy Committee. The Student Diversity Center also provides a forum for education aimed at helping you learn multicultural skills and perspectives that you need for a successful experience at Boise State and beyond. All of these efforts are an expression of our commitment to a philosophy of Inclusive Excellence at Boise State.

Student Employment
As a registered student, you can search for on-campus (including work-study), off-campus, part-time, summer, temporary, and full-time job opportunities on BroncoJobs, the university’s web-based job-listing site, hosted by the Career Center. There is no charge to use this service. New jobs are posted daily. Further information is available at (208) 426-1747 or https://career.boisestate.edu/.

Student Rights and Responsibilities
Boise State is committed to maintaining a strong, academically honest environment, free from harassing and disruptive behavior. As a part of the Office of the Dean of Students, Student Rights and Responsibilities serves as the central coordinating office of university student conduct regulations and ASBSU Student Legal Services. For further information, please call (208) 426-1527 or visit https://deanofstudents.boisestate.edu/.

Veteran Services
The Veteran Services Office, consists of a peer customer service staff, Academic and Career advisor, and an Outreach Coordinator. All of which provide GI Bill assistance, transition support, and academic/career advising to Veterans, Active Duty military, National Guard and Reserve members, as well as dependents who may qualify. They are located in the Lincoln Office Suites adjoining the Lincoln Parking Garage, 1607 University Drive, (208) 426-3744, https://veterans.boisestate.edu/ or email veteranservices@boisestate.edu.
Graduate Academic Regulations

The academic policies described in this chapter apply to all graduate degree and certificate programs and are approved by the faculty through the Graduate Council and administered by the Graduate College. Under this general regulatory umbrella, each graduate program is locally administered by an academic unit assigned by the university. The academic unit may be a department, a college, or a school, or a specially appointed unit consisting of graduate faculty members from multiple departments or colleges. Although an academic unit may develop local regulations for a specific graduate program under its control, the Graduate Academic Regulations have supremacy over the local regulations; all local regulations must be consistent with these academic policies and are therefore subject to review and approval by the Graduate Council. It is the responsibility of all graduate faculty members and graduate students to become thoroughly familiar with all policies that govern the graduate program in which they participate.

One-Half Requirement

At least one-half (1/2) of the total credits required for a graduate degree or certificate must be earned at Boise State University and must be approved for application by the Graduate College and the program coordinator. Graduate students must apply and be accepted into a graduate degree or certificate program before they have completed the requirements for the degree or certificate – no retroactive degrees or certificates will be conferred.

Restrictions on Certain Courses

All graduate degree and certificate programs must adhere to the following restrictions. A particular graduate degree or certificate program may impose more stringent restrictions, subject to approval by the Graduate Dean.

Aggregate Restriction

No more than one-third (1/3) of the total credit requirement for a graduate degree or certificate, exclusive of culminating activity credits, can be met by the aggregate of credits earned in undergraduate courses, pass-fail courses, and university-wide courses numbered 590, 594-596, 598, and 696 (or equivalent courses that may appear as transfer credits). An exception to this restriction may be considered when the courses are outside the major field of study, are taken to expand interdisciplinary or transdisciplinary educational experiences, and are approved by the program coordinator and the Graduate College through an academic appeal, using the Graduate Appeal Form.

Undergraduate Courses

In general, all credit applied to a graduate degree or certificate must be graduate-level academic credit, however an undergraduate course may be applied to meet the credit requirements of a graduate certificate or degree, subject to the following restrictions:

1. The course must be an upper-division course and must be in a discipline outside the major field of study of the program.
2. A grade of B or better must be earned in the course.
3. The course cannot represent an undergraduate thesis, internship, practicum, independent study or research, conference or workshop, experiential learning, study abroad, seminar, or colloquium.
4. All applied undergraduate credit must be approved by the Graduate College and the program coordinator of the graduate program that offers the degree or certificate.

Previously Applied Courses

In general, any course that was applied to a previously earned degree of any type at any institution cannot be applied to meet the credit requirements of a graduate certificate or degree at Boise State University. The only exceptions are identified under the Second Master’s Degree and Accelerated Master’s Degree sections in the Regulations for Master’s Programs chapter, and the Previously Applied Courses section in the Regulations for Doctoral Programs chapter of this catalog.

Each course allowed under these degree-specific Previously Applied Courses exceptions is subject to the following additional restrictions:

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

All courses allowed under the Previously Applied Courses exceptions are limited by the One-Half Requirement.

Language Proficiency Requirement

English is the language of instruction at Boise State University. As a graduate student, you must be proficient in English and may be required to demonstrate a prescribed level of ability in one or more other languages. If language ability beyond proficiency in English is required by a graduate program, the means of verification are defined by the program.

Simultaneous Enrollment

Simultaneous enrollment in more than one (1) graduate degree program is prohibited by the Graduate College, except in those situations in which a signed, written agreement negotiated between the program and the Graduate College allows you to earn a master’s degree while pursuing a doctoral degree. In these cases graduate students must apply and be accepted into a graduate degree program before they have completed the requirements for the degree – no retroactive degrees will be conferred. Because some of the total credits required for a degree must be earned after admission to the degree program, doctoral students who are interested in acquiring a master’s degree while working toward the doctoral degree should promptly apply to the master’s degree program.

Simultaneous enrollment in more than two (2) graduate certificate programs is prohibited by the Graduate College.

Simultaneous enrollment in a single (1) graduate degree program and two (2) or more graduate certificate programs is prohibited by the Graduate College.

Simultaneous enrollment in a graduate degree program and a single (1) graduate certificate program is permitted, subject to the following conditions:

1. The specific policies of the two programs permit co-enrollment.
2. The co-enrollment is approved by the Graduate College and the program coordinators of the graduate certificate and degree programs.
3. All degree-specific Duration of Graduate Study time constraints imposed by the Graduate College that govern the applicability of the credit must be met for both the graduate certificate program and the graduate degree program.

Because of the One-Half Requirement, a graduate degree-seeking student that is interested in acquiring a graduate certificate as an intermediate step should promptly apply to the certificate program.

Simultaneous enrollment in two (2) graduate certificate programs is permitted but only under the condition that both certificate programs allow simultaneous enrollment.

Graduate Student Advising

Thoughtful, comprehensive advising is critical to the success of every graduate student. In this context, the word “advising” is used broadly to encompass:

Academic Planning

This includes helping you map out a plan for completing the degree or certificate requirements, adjusting the plan to accommodate changes that may occur in your life, and helping you meet the administrative requirements of the program and the university.
Professional Development

This includes helping you make conceptual connections among courses, improve your research skills, build your professional networks, conduct research that contributes to existing knowledge within the discipline, and—when appropriate—make a successful transition from graduate student to working professional.

This kind of comprehensive advising requires an ongoing partnership, lasting from admission to graduation, that is based on mutual respect and understanding and in which all parties work to create a learning experience that allows you to:

1. develop a plan for completing the degree or certificate within a reasonable time and adjust the plan when it is in your best interest,
2. develop a level of expertise in a topic,
3. improve your ability to use the methods and technology of your discipline,
4. contribute as a member of a professional community of practice within your discipline, and
5. engage in continued learning after graduation

At Boise State, as a graduate student, you work with an advisor, supervisory committee, and/or procedural advisor.

Advisor

You must be under the guidance of an advisor if you are not under the guidance of a supervisory committee. An advisor is a member of the graduate faculty and is appointed by the graduate program. It is permissible for the graduate program coordinator to be appointed as the advisor for all students enrolled in the graduate program. It is also permissible for an advisor to guide a master's student (but not a doctoral student) through all graduate activities except for a culminating activity that requires a supervisory committee. Once appointed, the advisor is the primary source of program information and advice and works with you on matters related to both academic planning and professional development.

An advisor is named by the graduate program at the time of admission. However, either you or the program may subsequently request an advisor change to best match your academic interests or professional goals. Any advisor change should be the result of consultation among you, your current advisor, your proposed advisor, the graduate program coordinator, and—but because of possible faculty workload considerations—the department chair or head. The program should inform the Graduate College of any advisor change by sending an email to gradcollege@boisestate.edu.

Any master's student or doctoral student engaged in thesis or dissertation activity must have a major advisor by the beginning of their second year, otherwise they may be dismissed from the program. No student may remain in a graduate program that requires a thesis or dissertation without a major advisor named as part of the supervisory committee.

Supervisory Committee

A supervisory committee is required for any master's student or doctoral student engaged in thesis or dissertation activity. A supervisory committee is composed of members of the graduate faculty who are approved by the Graduate College and charged with your guidance when you are admitted to a specific graduate degree program. The committee consists of a major advisor who serves as chair, plus additional members of the graduate faculty who are chosen to provide a broad range of knowledge and expertise to the student.

Thesis supervisory committees must include at least three (3) but no more than five (5) members of the graduate faculty. Dissertation supervisory committees must include at least four (4) but no more than five (5) members of the graduate faculty, including any external committee members required by the degree program, but not including the Graduate Faculty Representative (GFR) (see the Graduate Faculty Representative section under Regulations for Doctoral Programs).

Graduate students are responsible for identifying their major advisor. The major advisor is the primary mentor for the student and must be a member of the graduate faculty with an endorsement to chair a supervisory committee. At least half of the supervisory committee members must hold appointments in the department(s) responsible for the program or the participating departments in the case of interdisciplinary programs. In all cases, the fundamental principle is that the committee, collectively, should be constituted to provide the best possible guidance throughout your career, including your thesis or dissertation work.

Graduate students should take an active role, working with their major advisor, to identify faculty members to serve on their supervisory committee. Once the supervisory committee members are identified, the student completes an Appointment of Supervisory Committee form and submits it for signature by the specified committee chair, department chair or graduate program coordinator, and the Graduate College. This form must include a recommended committee membership based on a reasonable match between the student's and faculty's academic interests. The form is then submitted to the Graduate College for review. Once satisfied with the recommended committee, the Graduate Dean formally appoints the committee and sends email notifications to the graduate program coordinator and your Boise State email address (according to Boise State University Policy #2280). The Appointment of Supervisory Committee form should be submitted as early as possible in your graduate career and no later than the time of submission of the Application for Admission to Candidate (AAC) form.

A change in the membership of the supervisory committee can be made after the initial appointment by submitting an updated Appointment of Supervisory Committee form. This should be done according to policies and procedures developed by the graduate program and only with the approval of the committee chair, department chair or program coordinator, and the Graduate College.

Procedural Advisor

With prior approval of the Graduate College, a member of the graduate program who does not hold membership in the graduate faculty may be assigned to advise some or all of the students in the program on procedural issues, such as the submission of paperwork, course sequencing, and other matters related to academic planning. The actual position title assigned by the university to procedural advisors can vary from program to program.

Academic Performance

A fundamental requirement for satisfactory academic performance is that if you have a cumulative grade point average (GPA) below 3.00, you are ineligible for graduation from a graduate degree or certificate program (see the Academic Performance at Graduation section). Some academic programs have their own more stringent cumulative graduate GPA requirements and course-specific grade requirements, in addition to the GPA requirements of the Graduate College. If you have a cumulative GPA that drops below 3.00 at any time, you should consult with your advisory or graduate program coordinator for advice and possible options.

Cumulative GPA Requirement: All students admitted to the Graduate College, including degree, certificate, and nongrade-seeking students, must meet the cumulative GPA requirements described in this section. If you are admitted to the Graduate College, you must maintain a minimum cumulative GPA of 3.00, including transfer courses. If the cumulative GPA is below 3.00 at the end of an enrolled semester (including summer), you will be placed on probation. At the end of the next enrolled semester (including summer), the Graduate College reviews your progress at this time and takes one of the following actions:

1. Removes you from probation if your cumulative GPA is 3.00 or above.
2. Continue you on probation if your cumulative GPA is below 3.00 and the semester GPA is 3.00 or above. You may continue on probation for an unlimited number of semesters but will be ineligible for graduation if your cumulative GPA is below 3.00 at the end of your graduation semester. You should consult their advisor or the graduate program coordinator for advice and possible options (see Academic Performance at Graduation).
3. Dismiss you from your graduate program and Boise State if your cumulative GPA is below 3.00 and your semester GPA is below 3.00. If you are dismissed, you are administratively withdrawn from your courses and cannot register for classes until you are either reinstated to the graduate program or readmitted to
the Graduate College. If you request reinstatement (following Boise State University Policy #3690) and are granted reinstatement to the program within 30 calendar days are not required to reapply to the Graduate College. A new online application and application fee is required after 30 days, or when your request for reinstatement is denied.

In each case, the Graduate College informs you (using the student’s Boise State email address, in accordance with Boise State University Policy #2280) and the graduate program via email.

**Academic Performance at Graduation**

If you are enrolled in a degree or certificate program, you must meet the following academic performance requirements at the end of your final (graduation) semester: (1) cumulative GPA requirement, (2) program GPA requirement, and (3) individual course requirements.

**Cumulative GPA Requirement:** At the end of the graduation semester your eligibility for graduation will be reviewed using the following guidelines:

- If you have a cumulative GPA of 3.00 or above, you will be eligible for graduation.
- If you have a cumulative GPA below 3.00, and are not on probation at the start of the graduation semester, you will be ineligible for graduation and placed on probation until your cumulative GPA is 3.00 or above. You should consult your advisor or the graduate program coordinator for advice and possible options.
- If you have a cumulative GPA below 3.00, and are on probation at the start of the graduation semester, you will be dismissed from the graduate program and Boise State.

You may appeal your dismissal only in the situation in which you meet both of the following conditions:

- You changed graduate programs after your initial admission to the Graduate College.
- Your semester GPA was 3.00 or above in all semesters (including summers) after your change of graduate programs.

In each case, the appeal will be carefully reviewed by the Graduate College and the timeliness of the appeal will be considered.

**Program GPA Requirement**

If you are admitted to a graduate program, you are required to list on an Application for Admission to Candidacy form (for a degree program) or a Proposed Plan of Study for a Graduate Certificate form (for a certificate program) the specific courses to be applied to meet all of the credit requirements defined for the program. The program grade point average (program GPA) is the grade point average computed for this set of courses. If the program GPA is less than 3.00, you are ineligible for the degree or certificate and should consult your advisor or the graduate program coordinator for advice and possible options.

**Individual Course Requirements**

If you are admitted to a graduate program, you cannot list a course on an Application for Admission to Candidacy form (for a degree program) or a Proposed Plan of Study for a Graduate Certificate form (for a certificate program) if the course is graded lower than C or P. An undergraduate course, G- Designated course, or transfer course cannot be listed if it is graded lower than B. If the grade for a specific course is approved by the graduate program, it is too low to be listed on the Application for Admission to Candidacy form or the Proposed Plan of Study for a Graduate Certificate form, and if that grade is improved under the course repetition policy, you are ineligible for the degree or certificate and will be dismissed from the graduate program and Boise State. In this case, you should consult your advisor or the graduate program coordinator for advice and possible options.

**Repetition of Graduate Courses**

**Repetition to Improve a Grade**

If you have completed a graduate course for credit, you may attempt to repeat that course to improve the grade, but only once and only with the written approval of the graduate program coordinator using the Request to Repeat a Graduate Course form.

Certain graduate courses cannot be repeated to improve a grade, including:

- 590 Practicum/Internship,
- 591 Project
- 592 Portfolio
- 593 Thesis
- 686 Master's Preliminary Examination
- 687 Doctoral Preliminary Examination
- 690 Master's Comprehensive Examination
- 691 Doctoral Comprehensive Examination
- 693 Dissertation

If your attempt to repeat a course results in a grade of W or CW, an additional attempt is not permitted unless you can document extenuating circumstances that are clearly beyond your control. A course that has been completed more than once in an attempt to improve a grade can be listed only once in an attempt to improve a grade can be listed only once on an Application for Admission to Candidacy form (for a degree program) or a Proposed Plan of Study for a Graduate Certificate form (for a certificate program). The listed semester and grade must be for the most recent completion of the course for credit. All course registrations on record beyond published drop dates for each semester or session appear on your transcript and GPA computations are carried out according to Boise State University Policy #2200. To confirm to previous policies of the Graduate College on course repetition to improve a grade, you may not repeat a Boise State course to improve a grade of F if the course was initially completed prior to the start of the Fall 2003 semester.

**Repetition for Credit**

The university-wide graduate courses and some departmental courses (such as MUS 563 Major Instrument Pedagogy I and MUS 564 Major Instrument Pedagogy II) are associated either with specifically defined efforts by an individual student or with content characteristics that can change from semester to semester. These courses and others like them may be repeated for credit and listed multiple times on your Application for Admission to Candidacy form (for a degree program) or a Proposed Plan of Study for a Graduate Certificate form (for a certificate program) subject to all approvals and limitations of the graduate program and the Graduate College.

**Transfer Credit**

Transfer credit is academic credit that is awarded by another college or university that has not been applied to meet the requirements of a previously earned degree of any type at another institution, and is approved for application to the requirements of a graduate certificate or degree at Boise State University. Transfer credit must satisfy the following restrictions:

1. Transfer credit must be graduate academic credit representing a grade of B or better, awarded by a regionally accredited U.S. college or university or by a non-U.S. institution of higher education that is approved for transfer purposes by the International Admissions Office. Continuing education units (CEU) and other non-academic credits are ineligible as transfer credit.
2. Culminating activity courses, courses where the grade is based only on attendance, and courses representing experiential learning, regardless of the level (undergraduate or graduate), are ineligible as transfer credit.
3. Application of transfer credit must be approved by the graduate program.

The only exception to the transfer credit rule is that credit applied to a previously earned master's degree at another institution may be applicable as transfer credit to a doctoral degree.
The maximum transfer credit that can be applied to meet the requirements of a graduate certificate or degree is limited by the One-Half Requirement that at least one-half (1/2) of the total credit requirement for a degree or certificate must be earned after admission to the program. A graduate program may impose a more restrictive transfer policy (fewer allowed transfer credits). In the case of a cooperative graduate program offered by Boise State and the University of Idaho and/or Idaho State University, a more liberal transfer policy (more allowed transfer credits) is permissible, but only if the Graduate Council has approved a higher transfer credit limit for the program.

G-Courses and Dual-Listed Courses
If you are enrolled in a G-course or a 500-level dual-listed course, you must complete all work required of students earning undergraduate credit (in the corresponding non-G-course or 400-level dual-listed course) plus substantial work at the graduate level. The Graduate College strictly limits the application of G courses to no more than one-third (1/3) of the total credit requirement for a degree or certificate. In addition, the Graduate College recommends that the applicable credit earned in G-courses and 500-level dual-listed courses together should not exceed one-half (1/2) of the total credit requirement of a graduate certificate or degree. The graduate program may further restrict the application of G-courses and 500-level dual-listed courses.

Application of Credit Already Applied to a Graduate Certificate
A graduate certificate is viewed by some programs as an intermediate accomplishment or stepping stone between a baccalaureate degree and a master's degree. The Graduate College therefore allows graduate credit (but not undergraduate credit) earned at Boise State University and previously applied to meet the requirements of a Boise State graduate certificate to also be applied to meet the requirements of a Boise State master's degree, but not a Boise State doctoral degree. This is known as dual application and is subject to the following stipulations:

1. The dual application of credit must be consistent with those policies of the master's program that may limit or preclude such application.
2. The dual application of credit must be approved by the graduate program coordinator and the Graduate College.
3. All Duration of Graduate Study time constraints imposed by the Graduate College that govern the applicability of the credit must be met.

In-Service Teacher Education or Professional Education Workshop Courses
Credit earned for in-service teacher education or professional education workshop courses (for which a special low fee is charged by the university) cannot be applied to meet the credit requirements of a graduate degree or graduate certificate (see section V. R.3. a. VIII. of the Governing Policies and Procedures of the Idaho State Board of Education).

Challenge Courses
If you believe that your background, education, and/or experience has given you sufficient knowledge in a subject area, you may challenge certain courses. This means that you may be able to receive credit for the course by passing a challenge exam. The graduate program offering the course determines whether a course is available for challenge and may develop screening procedures to determine whether you are eligible to take a challenge exam. Some programs may not offer any challenge exams. To be eligible for a course challenge, you must have completed 12 credits at Boise State. You may not challenge a course more than one time. You may not take any challenge exams. To be eligible for a course challenge, you must be an undergraduate student who is also a senior, and you may request approval to enroll in a G-course or a 500-level course. You must complete a Permit for Seniors to Take Graduate Courses form. You may apply the course in one of three ways:

- As graduate credit (Option I)
- As upper-division undergraduate credit (Option II)
- As credit for an accelerated master's program (Option III)

Graduate Credit (Option I)
Graduate credit earned under a Permit for Seniors to Take Graduate Courses does not imply that you will be admitted to a graduate program at Boise State University. If you complete courses for graduate credit while a senior and are later admitted to a graduate program, the program has the authority to decide which courses (if any) completed as a senior can be applied to the credit requirements of the program. The program also has the authority to define a maximum number of applicable credits of this type for the program, but the maximum cannot exceed one-third (1/3) of the total credit requirement for the degree or certificate.

Upper-Division Undergraduate Credit (Option II)
You may apply up to two (2) successfully completed 500-level courses to your upper-division credit requirement for a baccalaureate degree.

Accelerated Programs (Option III)
If you are in an accelerated master's degree, you may apply a limited number of graduate-level courses (as approved by the graduate program) to your undergraduate and graduate degree.

Other Limitations
If you are an undergraduate student, you may not enroll in 600-level courses. Courses offered as part of the Master of Business Administration program are excluded from enrollment by all undergraduate students. If you are admitted by the Graduate College to work on an accelerated master's degree, you are subject to course limitations imposed by the Graduate College and by the participating graduate program or programs.
Admission to Candidacy

Admission to candidacy is a critically important process required of all students enrolled in graduate degree programs. The candidacy process serves as the official review by the Graduate College of your plan of study. This official review allows the Graduate College to identify degree requirements and graduate regulations that may have been overlooked or misinterpreted. If left undetected and uncorrected for too long, these shortcomings can delay progress toward a graduate degree. The candidacy process also helps the Graduate College update your Academic Advisement Report (AAR), which is used for the final degree or certificate audit conducted by the Registrar’s Office prior to graduation, and enables the university to fulfill its obligations to accrediting organizations. Because of the importance of the candidacy process, if you have not been admitted to candidacy, you cannot participate in a final oral examination or apply for graduation.

Candidacy Requirements for a Master's Student

As a master’s student, you may be admitted to candidacy if you are in regular status and have completed a set of courses sufficient to satisfy at least one-half (1/2) of the total credit requirement with individual course grades of C or better and a GPA of at least 3.00 (computed for the set of courses).

Candidacy Requirements for a Doctoral Student

As a doctoral student, you may be admitted to candidacy if you are in regular status, have passed the comprehensive examination, have satisfied any language proficiency requirements and the doctoral residency requirement, and have completed a set of courses sufficient to satisfy at least one-half (1/2) of the total credit requirement with individual course grades of C or better and a program GPA of at least 3.00 (computed for the set of courses).

Application for Admission to Candidacy

If you are enrolled in a graduate degree program, you apply for admission to candidacy by submitting to the Graduate College an Application for Admission to Candidacy (AAC) form. The AAC is the result of academic planning done by you and your advisor and lists the courses proposed to fulfill the total credit requirement for a degree as defined in a particular annual edition of the Boise State University Graduate Catalog. Once you submit the form, it is reviewed by graduate program coordinator or designee. If approved, it is reviewed by the Graduate College. If the AAC is approved by the Graduate College, email notifications are sent to the graduate program and your student email address (according to Boise State University Policy# 2280). If any deficiencies are found in the list of courses on the AAC form, the Graduate College notifies you and the graduate program and helps find acceptable remedies. The Graduate College cannot guarantee that these remedies will not delay progress toward the certificate. It is therefore in your best interest to submit the AAC form in a timely manner. You are notified once the AAC form is approved by the Graduate College. A change in an approved AAC form, such as in the case where a course is no longer available, can be requested by submitting a Request for Adjustment of Academic Requirements form.

Choice of Graduate Catalog

If you are enrolled in a graduate degree or certificate program, you may choose to meet the requirements for that program as defined in any annual edition of the Boise State University Graduate Catalog in effect after you have been admitted to the program by the Graduate College. The program requirements so specified will be used by the Graduate College to evaluate the Application for Admission to Candidacy (AAC) form (for a degree program) or the Proposed Plan of Study for a Graduate Certificate (PPSGC) form (for a certificate program), and by the Registrar’s Office for the final degree or certificate audit.

Adjustment of Academic Requirements

The Boise State University Graduate Catalog chosen determines the program requirements that you must meet. The specific courses that have been approved by the Graduate College as meeting those program requirements are known as the academic requirements, and are listed on the approved Application for Admission to Candidacy form (for a degree program) or a Proposed Plan of Study for a Graduate Certificate (PPSGC) form (for a certificate program). You may request a change in academic requirements only by submitting a Request for Adjustment of Academic Requirements form to the Graduate College for review and approval.

Theses and Dissertations

Like all Boise State researchers, if you are engaged in thesis or dissertation research, you are expected to carry out your research in an ethical and responsible manner. This includes consideration for human subjects and animal subjects. For additional information about thesis and dissertation research, see the Boise State University Graduate College Policy and Procedure Manual. You must undergo a process involving three primary steps on the way to satisfying the thesis or dissertation requirement of a graduate degree program. These steps must be taken in proper order, and each subsequent step cannot be undertaken until you successfully complete the prior step.

Defense

You defend the thesis or dissertation before a committee known as the defense committee (which always includes the supervisory committee). This event is formally referred to as the final oral examination.

Final Reading Approval

You make any modifications that may be required by the defense committee and submit the revised thesis or dissertation to the chair of the supervisory committee (or designee) for final reading approval.

Format Review

You electronically submit the thesis or dissertation and supporting documentation to the Graduate College for a format review by the Coordinator of Theses and Dissertations, and respond to any corrections that may be required by the Graduate College.

• This format review is guided by a detailed requirements and procedures described in a manual called Standards and Guidelines for Theses and Dissertations. A thesis or dissertation that does not conform to the
ScholarWorks Standards and Guidelines for Theses and Dissertations

The quality of the research and the resulting thesis or dissertation is important, and your supervisory committee is responsible for the content and overall quality. However, the Graduate College will provide preliminary advice on request. If you have questions about any aspect of the format review, you are encouraged to contact the Thesis and Dissertation Office.

After the thesis or dissertation has passed the format review, you submit the final version as an electronic file to the Graduate College for review by the Graduate Dean (or designee). This should be done before the deadline published in the academic calendar. The thesis or dissertation requirement of a graduate degree program is not considered satisfied until the final version has been approved by the Graduate Dean. When submitting the final version:

1. You should include a page that contains the research protocol number and a statement that the protocol has been approved by the appropriate Office of Research Compliance (ORC) committee – Institutional Review Board (IRB), Institutional Animal Care and Use Committee (IACUC), or Institutional Biosafety Committee (IBC). Refer to responsible conduct of research.

2. You should submit an Access Agreement for a Thesis or Dissertation form. Because a thesis or dissertation is a significant contribution to a discipline, the Graduate College requires that all theses and dissertations be archived and made publicly accessible. This is done through ScholarWorks, a digital university repository overseen by the Albertsons Library. The conditions for public access to a thesis or dissertation may vary depending on a variety of circumstances. You request the conditions and they are reviewed by the Graduate College in the access agreement. Approval by the Graduate College of an access agreement is a graduation requirement for all students who complete a thesis or dissertation as part of a graduate degree program.

3. You can order archival bound paper copies of the thesis or dissertation as required by the department and for personal use. The Graduate College provides an electronic process for a student to order paper copies.

Name Used on a Thesis or Dissertation

The name used on a thesis or dissertation must match the author’s name as it appears on official Boise State records. You may choose to omit a middle name or use an initial. But the name used must be consistent throughout the thesis or dissertation and the accompanying paperwork (Defense Committee Approval, Final Reading Approval, and Access Agreement).

If you want to use a different name, such as a nickname, on your thesis or dissertation, you must first change your name in official Boise State University records by submitting a Student Information Update Form to the Office of the Registrar.

Thesis and Dissertation Office

The Thesis and Dissertation Office is a valuable resource for you and your faculty and shares the goal of helping you produce a high quality thesis or dissertation. You and your supervisory committee are responsible for the content and overall quality of the research and the resulting thesis or dissertation. However, the Thesis and Dissertation Office provides the following resources that can be used from the beginning of the writing process to publication of the thesis or dissertation via ScholarWorks Standards and Guidelines for Theses and Dissertations. This document includes information on:

- the thesis and dissertation process,
- thesis/dissertation elements, standards, and guidelines,
- the Graduate College thesis/dissertations template for Microsoft Word, and

Thesis and Dissertation Boot Camp

This four-day workshop is held every January, before classes begin for the spring semester. The workshop includes quiet space and time to write, a trained tutor available from 9:00 am to 1:00 pm each day, and short (15 to 30 minute) breakout presentations on topics such as the writing process, time management, formatting, and citations. The Boot Camp is open to all graduate students working on a thesis or dissertation. Information about the Boot Camp can be found on the Graduate College website at: https://graduatecollege.boisestate.edu/thesisdissertation/workshops-and-clinics/.

Group Workshops

Upon request, Thesis and Dissertation Office staff will conduct a workshop designed to meet the needs of any group of graduate students or faculty members working on a thesis or dissertation, from the proposal stage to the final version. Topics vary and can include formatting, citations, the thesis/dissertation process or anything else related to writing a thesis or dissertation.

Individual Consultations with Students and/or Faculty

Upon request, Thesis and Dissertation Office staff will meet individually with graduate students or faculty members. This consultation is available to all graduate students and faculty members regardless of the writing project and can be set up by appointment or on a drop-in basis. Topics can vary, however, the focus is on helping students and faculty members communicate through writing by providing an outside perspective and by exploring diverse writing methods within and outside of their respective disciplines. You in particular are encouraged to meet with Thesis and Dissertation Office staff early in your graduate career to take advantage of this resource.

Culminating Activity

The term culminating activity refers to a summary exercise that is carried out with a high degree of independence, is based on advanced study and accumulated graduate experience, is integrative in nature, and is typically your focus near the end of your graduate career. The traditional culminating activities for master’s and doctoral students are the thesis and dissertation, respectively, but master’s students in the United States now engage in many other forms of culminating activity such as a project, portfolio, capstone course, series of practicums, recital (performing arts), and comprehensive examination. Satisfactory completion of a culminating activity (or part of a culminating activity) is normally recorded by a grade in a graduate course set up specifically for that purpose (e.g., 592 Portfolio).

Graduation

Applying for Graduation

If you are nearing completion of the requirements for a graduate degree or certificate program, you must apply for graduation and pay the required graduation fee. This initiates a final audit of your academic records by the Registrar’s Office and reserves an official embossed diploma or certificate. To apply for graduation and pay the graduation fee, log on to myBoiseState.edu in the Student Center and choose the Apply for Graduation option from the drop down box under Academics. This process should be completed no later than the deadline published in the academic calendar for the semester or summer session in which you intend to complete the degree or certificate requirements. The month of the expected date of graduation is May if you are finishing in the spring semester, August if you are finishing in the summer session, and December if you are finishing in the fall semester. If you miss your expected date of graduation twice, you are placed on inactive status by the Registrar’s Office and are required to contact the Registrar’s Office before attempting to establish a new graduation date.

Commencement

Candidates for graduate degrees are eligible to participate in commencement if cleared to do so by the Registrar’s Office. If you are completing a graduate certificate program, you are not eligible to participate in commencement unless you are also a candidate for a graduate degree and have been cleared for...
participation by the Registrar’s Office. Diplomas and certificates are mailed after satisfactory completion of a final degree audit of all program requirements by the Registrar’s Office.

Program Timelines
All timelines associated with graduate degree and certificate programs are published each semester or summer session in the Boise State University’s Academic Calendar. These timelines include application and fee payment deadlines, last day to add and drop courses, starting and ending dates for semesters and sessions, last days for filing program forms, final oral examinations, and the submission deadlines for theses and dissertations. It is your responsibility to be familiar with these timelines.

Full-Time Enrollment Exception for International Students
For the purpose of verifying enrollment, you must be enrolled in at least nine (9) credits to be considered full-time. If you are enrolled in fewer than nine (9) credits, you are considered to be enrolled proportionally less than full-time. This applies to each fall, spring, and summer semester or session.

An exception applies if you are an international student when summer is the first semester in F1 or J1 status. For immigration purposes only a minimum of six (6) credits is required during the summer to be considered full-time. Three (3) of these six (6) credits must be in coursework other than independent study, thesis, or dissertation.

This does not change the requirement if you are an international student who has a graduate assistantship (GA) to be registered in nine (9) credits during fall and spring, but can maintain your GA without summer registration.

In determining whether you are enrolled full-time, Boise State counts all credit hours on your registration form, including courses under audit status, courses being repeated, and credits for workshops. In short, nearly every combination of any type of credit hour counts toward the required credit total. Note also that developmental courses (such as ENGL 90 Developmental Writing or MATH 25 Elementary Algebra) count as three (3) credits each toward the full time credit total, even though no credit is earned for taking the course (see Tuition and Fees).

Student Handbook
A graduate program may compile a handbook of procedures for a degree or certificate program. These are essential resources and you should visit the program website or contact the graduate program coordinator to obtain a copy.

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### Regulations for Graduate Certificate Programs

A graduate certificate program is limited in scope relative to a graduate degree program but provides an opportunity for advanced study with a particular focus. Successful completion of a graduate certificate program is a coherent academic accomplishment that leads to an official notation on your transcript.

Subject to the regulations that govern a specific program, a graduate certificate can often serve as an intermediate accomplishment when your ultimate goal is a graduate degree.

#### Certificate Requirements

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

#### Credit Requirements

The total credit requirement must include at least nine graduate credits earned in courses exclusive of university-wide graduate courses 591-598, 686-693, and 696-697.

Any deviation by the certificate curriculum from this stipulation must be approved through appeal to the Graduate College. A limited number of credits earned in undergraduate courses may be applied to meet the credit requirements (see Restrictions on Certain Courses and the rules governing the application of credits already applied to a graduate certificate). In all cases, certificates are subject to the One-Half Requirement.

#### Culminating Activity

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

#### Duration of Graduate Study

All requirements for a graduate certificate (including transfer courses) must be started and completed within a single continuous interval of no more than four (4) years. This single continuous interval includes summers and any semesters in which you are not enrolled. In addition, it must encompass all courses applied to the certificate, including transfer courses.
Regulations for Master’s Programs

Although programs leading to a master’s degree are very diverse, they generally fall into two categories depending on overall emphasis and the nature of the culminating activity.

- Scholarly programs emphasize research or creative activities and require a thesis that is defended formally in a public setting and made publicly accessible through the university archive.
- Professional programs emphasize the application of advanced knowledge and skills and require a project, capstone course, series of practicums, recital, or comprehensive examination.

Both scholarly and professional master’s programs involve substantial study beyond the baccalaureate degree, impart the methodology of discovery or creation in a given discipline, and prepare you to contribute at an advanced level to the workplace and to the community.

Degree Requirements

Advisor or Supervisory Committee

If you are admitted to a master’s program, you must be under the guidance of either a supervisory committee or an advisor appointed soon after admission (see Graduate Student Advising).

Credit Requirements

The program of study leading to a master’s degree must include at least 30 total credits. All credit must be approved for application by the graduate program coordinator and by the Graduate College.

Culminating Activity

The program of study leading to a master’s degree must include at least one culminating activity that may be a thesis, project, portfolio, capstone course, series of practicums, performance recital or lecture recital, or comprehensive examination. The culminating activity or activities should be represented in the program by nonzero credit but cannot exceed one-third (1/3) of the total credit requirement. Exceptions to the culminating activity requirement can be made by a master’s program and must be approved through appeal to the Graduate College.

Final Oral Examination

If you are enrolled in a master’s program with a thesis requirement, you must pass a final oral examination that probes your ability to describe and defend all aspects of the thesis in both a public setting and a private conference with a supervisory committee.

Duration of Graduate Study

The minimum duration of study for the master’s degree is one (1) academic year after admission to the program. All requirements for a master’s degree (including transfer courses) must be started and completed within a single continuous interval of no more than seven (7) years. This single continuous interval includes summers and any semesters in which you are not enrolled. In addition, it must encompass all courses applied to the degree, including transfer courses.

Thesis

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

Thesis Proposal

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

Registration for Thesis Credit

You must register for at least one (1) credit of 593 Thesis in any semester or session in which you are engaged in thesis activity, including the semester or session of the final oral examination, regardless of the number of 593 Thesis credits already accumulated. You cannot undertake the final oral examination unless enough 593 Thesis credit has been accumulated to meet the degree requirement for such credit. You are not required to register for 593 Thesis credit in the semester or session subsequent to the semester or session in which the Graduate College receives the format review copy of the thesis and the Final Reading Approval pages signed by each member of the supervisory committee and the Graduate College representative. You must submit the format review copy and the signed Final Reading Approval pages to the Graduate College no later than the last day of the final exam week of the semester or session. If you fail to meet this deadline, you will be required to register for at least one credit of 593 Thesis in the subsequent semester or session.

Thesis Grading

All 593 Thesis credits are graded in-progress (IP) until a final grade of either pass (P) or fail (F) is assigned by the master’s program. A grade of pass (P) is assigned to all 593 credits if the final oral examination is passed, and a grade of fail (F) is assigned to all 593 credits if you fail the final oral examination. See Final Oral Examination and Failure of a Final Oral Examination below.

Final Thesis Approvals and Procedures

A grade of pass (P) in all 593 credits is not sufficient to satisfy the thesis requirement for a master’s degree and does not clear you for graduation. A thesis that you have successfully defended at the final oral examination must also:

1. Be granted final reading approval by the major advisor (chair of the supervisory committee).
2. Include an Access Agreement for a Thesis or Dissertation form describing conditions for archiving and publishing the dissertation through ScholarWorks.
3. Include a page that contains the research protocol number and a statement that the protocol has been approved by the appropriate Office of Research Compliance (ORC) committee Institutional Review Board (IRB), Institutional Animal Care and Use Committee (IACUC), or Institutional Biosafety Committee (IBC).
4. Pass the format review of the Graduate College.
5. Be approved by the Graduate Dean.

Project

A project is a substantial exercise that demonstrates your ability to independently and successfully carry out a professional activity similar to what may be encountered in the workplace. Although a final oral examination for a project is not required by the Graduate College, the master’s program may define procedures for such an examination and require it for all students in the program. The Graduate College does not archive projects and does not require that graduate programs archive projects. However, it is permissible for a program to adopt local regulations and implement procedures for archiving some or all projects produced in a particular graduate program. This flexibility acknowledges the great diversity of projects across disciplines and the differing views on their archival value.
Registration for Project Credit
If you are engaged in project activity during any semester or term, including the semester or term in which the project in final form is assigned a grade, you must register for at least one (1) credit of 591 Project, regardless of the number of 591 Project credits you have already accumulate.

Project Grading
All 591 Project credits are graded in-progress (IP) until a final grade of either pass (P) or fail (F) is assigned by the academic unit responsible for the program. The same grade (P or F) is assigned to all 591 credits you have registered for during your career in the master’s program.

Portfolio
A portfolio is a substantial collection of selected work that demonstrates your efforts, progress, and accomplishments in one or more areas of the curriculum. The portfolio is a culminating activity, although you should begin the process early by discussing with faculty how to plan and organize their portfolio. This is followed by the collection of examples of work throughout your academic career that demonstrate, for example, knowledge of a subject, mastery of a learning process, publishable scholarship or completion of special projects, themes, and/or creative activity. A portfolio must contain your thoughts about the learning process, demonstrate the grasp of key information and/or exhibit the development of crucial skills. These reflections can take the form of learning logs, reflective journals, and other forms, as appropriate. The credit(s) awarded should reflect the work required to assemble the portfolio.

Registration for Portfolio Credit
The number of required 592 Portfolio credits is determined by the master’s program. Register for the number of required 592 Portfolio credits during the semester when the portfolio is expected to undergo final evaluation and be assigned a grade.

Portfolio Grading
All 592 Portfolio credits are graded either pass (P) or fail (F). However, if the final evaluation of a portfolio is delayed, then at the discretion of the academic unit responsible for the program, all 592 Portfolio credits may be assigned a grade of in-progress (IP). A grade of in-progress (IP) is converted to either pass (P) or fail (F) after the portfolio has undergone final evaluation.

Capstone Course
A capstone course is a graduate course that serves as a final comprehensive assessment of the knowledge and skills of a master’s student in the major field of study. As a culminating activity, a capstone course is taken in the last semester of a master’s program and may be a grade-point course or pass-fail course. A capstone course may be designated with a program-specific graduate course number or the university-wide graduate course 692 Capstone Course. If you receive a grade of F in a capstone course, you may not graduate in that semester or term, regardless of whether you are otherwise qualified to do so. A failed capstone course may be repeated (see Repetition of Courses in the Graduate Academic Regulations section). If repeating a capstone course, you must enroll for the number of credits required by the course.

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

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

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

Considerable autonomy is granted to the graduate program in the design, administration, and evaluation of a master’s comprehensive examination. However, you must be registered for at least one (1) credit of 690 Master’s Comprehensive Examination during the semester or term of the first attempt at the comprehensive examination, and the examination must be administered in time to process and submit the grade when grade reports are due in the Office of the Registrar. If you pass the comprehensive examination, a grade of pass (P) is submitted for the 690 credit(s). If you fail the comprehensive examination, then the program follows the procedure described for failure of a comprehensive examination.

Failure of a Comprehensive Examination
Failure of a comprehensive examination (any attempt by a master’s student) is documented by submission of a Report of Failure of a Comprehensive Examination form to the Graduate College and by submitting the appropriate grade for 690 Master’s Comprehensive Examination. A comprehensive examination that is failed on the first attempt can be repeated once, but only if you request a second attempt and it is approved by the master’s program. The request for a second attempt must be in writing to the graduate program coordinator and must be made within five (5) working days after you are notified of your failure. If you do not request a second attempt, or if a request is made but not approved by the graduate program, then a grade of fail (F) is assigned to the 690 credit(s) and you are dismissed from the program and Boise State by the Graduate College. If your request is approved by the program, then the second attempt must occur within twelve (12) months after the first attempt, and an incomplete grade (I) is assigned to the 690 credit(s) until the result of the second attempt is known. If you do not make the second attempt within twelve (12) months after the first attempt, or if you fail the second attempt, then a grade of fail (F) is assigned to the 690 credit(s) and you are dismissed from the program and Boise State by the Graduate College. Any extension of the twelve-month limit on the second attempt must be appealed using a Graduate Appeal Form, and must be approved by the graduate program coordinator and by the Graduate Dean.
Final Oral Examination

The Graduate College requires a final oral examination (also called a defense) for you as a master’s student if you are completing a thesis as a culminating activity. The examination must consist of three sequential parts in which you present and defend the thesis research,

- a public presentation,
- a public question and answer session, and
- a private question and answer session with the defense committee.

The final oral examination should occur no later than the date specified in the academic calendar. This date is set to allow time for final revision and processing of the thesis so that, if you pass the final oral examination, you have a reasonable chance for graduation in the same semester or session. Announcement of the public presentation to the university community is required and should precede the presentation by at least two (2) weeks.

The defense committee is identical to your supervisory committee, and the chair of the supervisory committee is responsible for conducting all three parts of the final oral examination according to procedures established by the Graduate College. However, at your or the academic unit’s request, a graduate faculty representative (GFR) may be appointed as a nonvoting member to the defense committee by the Graduate Dean. The GFR must be a member of the graduate faculty and a member of an academic unit not represented on the defense committee by the Graduate Dean. The GFR conducts all three parts of the final oral examination according to procedures established by the Graduate College.

The result of a final oral examination can only be reported as pass or fail. The determination of pass or fail is by a vote of the voting members of the defense committee with a simple majority determining the outcome unless the graduate program requires a unanimous vote for pass. If a tie vote occurs, then you are considered to have failed the final oral examination. A result of pass is immediately documented by the signatures of the voting members of the defense committee on the Defense Committee Approval form that is to be bound with the paper copies of the thesis. A result of fail is immediately documented on a Report of Failure of a Final Oral Examination form that is submitted to the Graduate College by either the chair of the supervisory committee or the GFR.

Failure of a Final Oral Examination

Failure of a final oral examination (any attempt by a master’s student) is documented by submission of a Report of Failure of a Final Oral Examination form to the Graduate College and by submitting the appropriate grade for 690 Master Comprehensive Examination. A final oral examination that is failed on the first attempt can be repeated once, but only if you request a second attempt and it is approved by the graduate program. Your request for a second attempt must be in writing to the graduate program coordinator and must be made within five (5) working days after you are notified of your failure. If you do not request a second attempt, or if a request is made but not approved by the graduate program, then a grade of F is assigned to all 593 credits and then you are dismissed from the program and Boise State by the Graduate College. If your request is approved by the academic unit, then the second attempt must occur within twelve (12) months after the first attempt, and IP grades are maintained for all 593 credits until the result of the second attempt is known. If you do not make the second attempt within twelve (12) months after the first attempt, or if you fail the second attempt, then a grade of (F) is assigned to all 593 credits and you are dismissed from the program and Boise State by the Graduate College. Any extension of the twelve-month limit on the repeat attempt must be appealed using a Graduate Appeal Form, and must be approved by the graduate program coordinator and by the Graduate Dean.

Second Master’s Degree

If you have earned a master’s degree from Boise State University, you may earn a second master’s degree in another discipline under the following guidelines:

1. You must meet all requirements prescribed for the second degree.
2. Requirements for the second degree that have already been met as part of the first master’s degree may be counted toward the second degree with the following stipulations:
   - The supervisory committee and Graduate Dean approve.
   - Credit for culminating activities is automatically excluded from application to both degrees.
   - At least two-thirds (2/3) of the credit applied to the second degree must represent new course work (that is, courses not already applied to the first degree).
3. All requirements for the second degree, including transfer courses, must be started and completed within a single continuous interval of no more than seven (7) years.
4. You cannot be admitted to a second master’s degree program until all requirements for the first master’s degree have been completed.

Accelerated Master’s Degree

An academic unit responsible for a specific existing undergraduate degree program and specific existing master’s degree program may develop a process that allows certain students in the undergraduate degree program to pursue the master’s degree on an accelerated schedule. If you qualify, you register for a limited number of graduate courses in the last two (2) semesters of your undergraduate program with the understanding that graduate credits earned in these courses can be used to satisfy both bachelor’s and master’s degree requirements. The remaining requirements for the master’s degree are satisfied in the semesters subsequent to the award of the bachelor’s degree. All requirements for both the bachelor’s degree and master’s degree must be met. In addition, the early start on the master’s degree requirements must not delay receipt of the bachelor’s degree beyond a nominal four-year schedule for that discipline. If you work toward an accelerated master’s degree, you are subject to all academic performance requirements of the Graduate College, including cumulative GPA, program GPA, and individual course grade requirements.

Because it is critically important to maintain the high intellectual quality of a graduate program, the program is required to carefully consider the overall readiness of an undergraduate student when recommending that you be allowed to pursue a master’s degree on an accelerated schedule. The process developed by the program for judging your overall readiness must require that you meet at least two GPA measures computed after you complete 75 undergraduate credits toward the bachelor’s degree:

1. An overall GPA of at least 3.00.
2. A GPA of at least 3.30 computed for undergraduate courses chosen by the graduate program because of their importance to the undergraduate and master’s degree programs.

To better judge your overall readiness of the student, a graduate program may require higher GPA measures than those indicated here, and may require that you meet additional stipulations for eligibility. Meeting these eligibility requirements does not guarantee that you will be permitted to pursue an accelerated master’s degree. As is the case with all graduate admission decisions, the Graduate Dean is responsible for making the final decision on whether or not an undergraduate student is permitted to work on a master’s degree on an accelerated schedule. Undergraduate students at other colleges and universities are not eligible to work on an accelerated master’s degree at Boise State.
Regulations for Education Specialist Programs

The Education Specialist (EdS), is an advanced degree specifically designed if you wish to develop advanced knowledge and theory beyond the master’s degree, but may not wish to pursue a doctoral degree. At Boise State University, admission requirements include a master’s degree from a regionally accredited U.S. institution of higher education or from a non-U.S. institution of higher education that is judged equivalent to a U.S. master’s degree by the International Admissions Office, along with other Graduate College and program-specific requirements.

Degree Requirements

The curriculum of an EdS program is a set of academic courses identified by the university as suitable for properly qualified students. The curriculum may include both specific courses and a selection of elective courses.

Culminating Activity

A culminating activity may not be required for an EdS program but is not precluded from being a requirement. If a culminating activity is required, it must be represented in the total credit requirements using an appropriate course.

Duration of Graduate Study

All requirements for an EdS (including transfer courses) must be started and completed within a single continuous interval of no more than seven (7) years, although a graduate program may require a shorter duration of graduate study.

This single continuous interval includes summers and any semesters in which you are not enrolled. In addition, it must encompass all courses applied to the degree, including transfer courses. Students in the Educational Technology, EdS program that wish to apply transfer credits must have completed those credits within five (5) calendar years of the time of admission to the program.

Regulations for Doctoral Programs

Boise State University offers Doctor of Philosophy (PhD) and Doctor of Education (EdD) degrees. Each requires demonstration of expertise in a major field of study, a working understanding of one or more related disciplines, independent research leading to a significant and original contribution to knowledge, and (in some cases) proficiency in one or more foreign languages.

Recipients of the PhD and EdD degree generally engage in careers of active scholarship in a wide variety of employment settings.

Boise State also offers a Doctor of Nursing Practice (DNP) degree. This is the highest degree for practice-focused nurses providing direct or indirect care to patients, families, organizations or populations; engaged as faculty in nursing programs; leading health related organizations; developing and implementing health policy; and translating research into evidence-based practice.

Information about the DNP degree can be found on the School of Nursing website at https://hs.boisestate.edu/dnp/.

This section describes policies that apply to PhD and EdD degree programs.

Degree Requirements

Supervisory Committee

If you are admitted to a PhD or EdD program, you must be under the guidance of a supervisory committee. (see the Supervisory Committee section in the Graduate Academic Regulations section of this catalog.)

Credit Requirements

The program of study leading to a PhD or EdD degree must include at least 66 total credits, at least half of which must be earned in courses exclusive of dissertation.

Residency

As a PhD or EdD student, you must spend at least one academic year in full-time, on-campus graduate study at Boise State. You must fulfill this residency requirement or fulfill a substitute requirement or plan that is developed by the program and approved by the Graduate College.

Comprehensive Examination

You must pass a comprehensive examination that assesses:

• depth and breadth of knowledge in the major field of study and in one or more related disciplines and
• readiness to undertake dissertation research.

Dissertation

You must prepare a dissertation written in clear and effective English that embodies the results of your original scholarly research (see Dissertation below).

Final Oral Examination

You must pass a final oral examination that rigorously and deeply probes your ability to describe and defend all aspects of the dissertation research in both a public setting and in a private conference the defense committee (see Final Oral Examination below).

Duration of Graduate Study

The minimum duration of study for the PhD and EdD degree is three (3) academic years beyond the baccalaureate degree. All requirements for a PhD or EdD degree (including transfer courses) must be started and completed within a single continuous interval of no more than ten (10) years. This single continuous interval includes summers and any semesters in which the student is not enrolled. In addition, it must encompass all courses applied to the degree, including transfer courses.

Previously Applied Courses

Students who have completed a master’s degree from a regionally accredited U.S. institution or non-U.S. institution, if approved by the graduate program coordinator, Graduate College, and the registrar, may be applied to meet the credit requirement of a PhD or EdD degree at Boise State University.

Students who have completed an EdS degree at Boise State and enroll in a related EdD degree may apply all of the credits previously applied to the EdS degree to the EdD degree. This is known as dual application and is subject to the following stipulations:

1. The dual application of credit must be consistent with those policies of the EdD program that may limit or preclude such dual application.
2. The dual application of credit must be approved by the graduate program coordinator and by the Graduate College.
3. All duration of graduate study constraints imposed by the Graduate College that govern the applicability of the credit must be met.

The Previously Applied Courses exceptions identified above are subject to the additional restrictions identified in the Graduate Academic Regulations Chapter of this catalog, as well as the One-Half Requirement.

Comprehensive Examination

Considerable autonomy is granted to the program in the design, administration, and evaluation of the comprehensive examination for a PhD or EdD student. However, you must be in regular status and registered for at least one credit of 691 Doctoral Comprehensive Examination during the semester or term of the first attempt at the comprehensive examination, and the examination must be administered in time to process and submit the grade when grade reports are due in the Office of the Registrar. If you pass the comprehensive examination, a grade of pass (P) is submitted for the 691 credit(s). If you fail the comprehensive examination, then the program follows the procedure described in Failure of the Comprehensive Examination (below).
Failure of the Comprehensive Examination

Failure of the comprehensive examination (any attempt by a PhD or EdD student) is documented by submission of a Report of Failure of a Comprehensive Examination form to the Graduate College and by submitting the appropriate grade for 691 Doctoral Comprehensive Examination. A comprehensive examination that is failed on the first attempt can be repeated once, but only if you request a second attempt and it is approved by the program. Your request for a second attempt must be in writing to the program coordinator or work represented by credit other than 689 Dissertation Proposal or 693 Dissertation (such as 596 Independent Study and 696 Directed Research) is not acceptable for the dissertation under any conditions.

Dissertation Proposal

A dissertation proposal must be approved in advance of the dissertation research by the supervisory committee. The dissertation proposal presents the background, objectives, scope, methods and time lines of the dissertation research. Substantive work done prior to the appointment of the supervisory committee or work represented by credit other than 689 Dissertation Proposal or 693 Dissertation (such as 596 Independent Study and 696 Directed Research) is not acceptable for the dissertation under any conditions.

Registration for Dissertation Credit

You must register for at least one (1) credit of 693 Dissertation in any semester or session in which you are engaged in dissertation activity, including the semester or session of the final oral examination, regardless of the number of 693 Dissertation credits you have already accumulated. You cannot undertake the final oral examination unless enough 693 Dissertation credit has been accumulated to meet the degree requirement for such credit. You are not required to register for 693 Dissertation credit in the semester or session subsequent to the semester or session in which the Graduate College receives the format review copy of the dissertation and the Final Reading Approval pages signed by each member of the supervisory committee and the Graduate College representative. You must submit the format review copy and the signed Final Reading Approval pages to the Graduate College no later than the last day of the final exam week of the semester or session. Failure to meet this deadline will require you to register for at least one credit of 693 Dissertation in the subsequent semester or session.

Dissertation Grading

All 693 Dissertation credits are graded in-progress (IP) until a final grade of either pass (P) or fail (F) is assigned by the academic unit responsible for the program. A grade of pass (P) is assigned to all 693 credits if the final oral examination is passed, and a grade of fail (F) is assigned to all 693 credits if the student fails the final oral examination.

Final Dissertation Approvals and Procedures

A grade of pass (P) in all 693 credits is not sufficient to satisfy the dissertation requirement for a PhD or EdD degree and does not clear you for graduation. A dissertation that has been successfully defended by the student at the final oral examination must also:

1. be granted final reading approval by the major advisor (chair of the supervisory committee);
2. include an Access Agreement for a Thesis or Dissertation form describing conditions for archiving and publishing the dissertation through ScholarWorks;
3. include a page that contains the research protocol number and a statement that the protocol has been approved by the appropriate Office of Research Compliance (ORC) committee – Institutional Review Board (IRB), Institutional Animal Care and Use Committee (IACUC), or Institutional Biosafety Committee (IBC);
4. pass the format review of the Graduate College; and
5. be approved by the Graduate Dean.

Final Oral Examination

The final oral examination for a PhD or EdD student (also called a defense) must consist of three sequential parts in which the student presents and defends the dissertation research:

- a public presentation,
- a public question and answer session, and
- a private question and answer session with the defense committee.

The final oral examination should occur no later than the date specified in the academic calendar. This date is set to allow time for final revision and processing of the dissertation so that if you pass the final oral examination, you have a reasonable chance for graduation in the same semester or session.

Announcement of the public presentation to the university community is required and should precede the presentation by at least two (2) weeks. The defense committee must include the entire supervisory committee plus a nonvoting Graduate Faculty Representative (GFR), nominated by the student and approved by the Graduate Dean (see below). At the request of the PhD or EdD program, the Graduate Dean may appoint an additional voting member to the defense committee known as the external examiner. The external examiner may be from the university or from outside the university but cannot be a member of the graduate program responsible for PhD or EdD degree. The result of a final oral examination can only be reported as pass or fail. The determination of pass or fail is by a vote of the voting members of the defense committee with a simple majority determining the outcome unless the graduate program requires a unanimous vote for pass. If a tie vote occurs, then you are considered to have failed the final oral examination. A result of pass is immediately documented by the signatures of the voting members of the defense committee on the Defense Committee Approval form that is to be bound with the paper copies of the thesis. A result of fail is immediately documented on a Report of Failure of a Final Oral Examination form that is submitted to the Graduate College by the GFR.

Graduate Faculty Representatives

PhD and EdD candidates, in consult with their Supervisory Committee Chair (Major Advisor) or Graduate Program Coordinator, are responsible for identifying a Graduate Faculty Representative (GFR) for their supervisory committee and are required to nominate the GFR on their Appointment of Supervisory Committee form. The GFR at Boise State University serves as a symbol of campus-wide fairness, upholds the rigor of the graduate process, and is an impartial representative of the Graduate College to the doctoral student and their supervisory committee.

The GFR, as a non-voting member of the supervisory committee, does not count towards any Graduate College supervisory committee composition polices. The GFR is not expected to participate in the doctoral candidate’s dissertation work or to meet with the full supervisory committee during the
candidacy period. During the final oral defense procedure the GFR conducts all three parts of the oral examination according to procedures established by the Graduate College.

The GFR must be a member of the graduate faculty, cannot be an affiliate, adjunct, or emeritus member of the graduate faculty, and cannot be a member of the graduate program (or affiliated programs in the case of interdisciplinary programs,) that is granting the doctoral degree. It is strongly encouraged that doctoral candidates invite GFRs from outside of their colleges. The Graduate College maintains a list of approved graduate faculty from which the doctoral candidate may identify potential GFRs to contact.

Due to the length of many candidacy periods, a doctoral candidate may need to identify a replacement GFR, should the GFR become unable to serve for any reason. This replacement will not impact the candidate’s progress, defense, or status at Boise State University – however, the candidate will be expected to identify a replacement GFR, following the same process identified above.

When a candidate is ready to defend their dissertation, the full supervisory committee, including the GFR, should be consulted in order to find a defense day, time, and location that is amenable to all members of the supervisory committee.

**Failure of the Final Oral Examination**

Failure of a final oral examination (any attempt by a PhD or EdD student) is documented by submission of a Report of Failure of a Final Oral Examination form to the Graduate College and by submitting the appropriate grade for 693 Dissertation. A final oral examination that is failed on the first attempt can be repeated once, but only if you request a second attempt and it is approved by the graduate program. The request for a second attempt must be in writing to the graduate program coordinator and must be made within five (5) working days after you are notified of your failure. If a second attempt is not requested, or if a request is made but not approved by the program, then a grade of F is assigned to all 693 credits and you are dismissed from the program and Boise State by the Graduate College. If your request is approved by the graduate program, then the second attempt must occur within twelve (12) months after the first attempt, and IP grades are maintained for all 693 credits until the result of the second attempt is known. If you do not make a second attempt within twelve (12) months after the first attempt, or if you fail the second attempt, then a grade of F is assigned to all 693 credits and you are dismissed from the program and Boise State by the Graduate College. Any extension of the twelve-month limit on the repeat attempt must be appealed using a Graduate Appeal Form, and must be approved by the graduate program coordinator, and by the Graduate Dean.

Questions About These Regulations?
Contact the Graduate College
Riverfront Hall, Room 307
(208) 426-3903
https://graduatecollege.boisestate.edu/
Email: gradcoll@boisestate.edu
## Summary of Programs and Courses

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University-Wide Course Numbers

A university-wide graduate course represents a certain type of graduate activity with the same course number and title across all academic units. University-wide graduate courses 591 Project, 592 Portfolio, 593 Thesis, 690 Master's Comprehensive Examination, 692 Capstone Course, and 693 Dissertation represent work done on graduate culminating activities and are therefore known as culminating activity courses; some graduate programs have culminating activity courses that are numbered differently than these university-wide courses.

553 PROFESSIONAL EDUCATION (Variable Credit). Available at special fee rate (approximately one-third of part-time fee rate). Credit is awarded for professional development only and cannot be applied to a graduate degree program by policy of the State Board of Education. Either graded or pass/fail.

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

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

Note: An undergraduate internship is an entry level employment experience related to the discipline. The graduate intern already has an undergraduate degree and is expected to perform with a higher level of responsibility, decision-making authority, and accomplishment.

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

592 PORTFOLIO (Variable Credit). A broad-based selection of significant student work that is used to appraise student performance and professional development. A portfolio reflects the depth and breadth of a student's educational growth since entering the graduate program. Portfolios may include, but are not limited to, classroom examinations, journals, writing samples, publishable scholarship, professional projects, annotated bibliographies, and artistic endeavors. Pass/fail only.

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

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

595 READING AND CONFERENCE (Variable Credit). The conduct of topical research, assigned readings or literature review. The faculty advisor and the student prepare and sign an agreement describing the amount and type of work to be accomplished. Either graded or pass/fail.

596 INDEPENDENT STUDY (Variable Credit). Advanced study of a specialized topic; design and completion of a project may be included in the study. The student works with a high degree of independence to meet well-defined goals under the supervision of a member of the graduate faculty. Requires submission of a completed Application for Graduate Independent Study prior to the deadline specified in the academic calendar. An independent study cannot be substituted for a course regularly offered at Boise State, nor can independent study credits be used to improve a grade in a course the student has already taken. Either graded or pass/fail.

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

598 SEMINAR (Variable Credit). Small group meetings for the exchange of ideas, debate of issues, or presentation of research. Format, conduct, and purpose of seminars vary widely among disciplines. Either graded or pass/fail.

686 MASTER'S PRELIMINARY EXAMINATION (Variable Credit). An early assessment of a student's potential to complete a master's program satisfactorily. Considerable autonomy is granted to the academic unit in the design, administration, and evaluation of the preliminary examination. Pass/fail only.

687 DOCTORAL PRELIMINARY EXAMINATION (Variable Credit). An early assessment of a student's potential to complete a doctoral program satisfactorily. Considerable autonomy is granted to the academic unit in the design, administration, and evaluation of the preliminary examination. Pass/fail only.

688 THESIS PROPOSAL (Variable Credit). Background, objectives, scope, methods, and timeline of the thesis research. Considerable autonomy is granted to the academic unit in the design, administration, evaluation, and approval of the thesis proposal. Pass/fail only.

689 DISSERTATION PROPOSAL (Variable Credit). Background, objectives, scope, methods, and timeline of the dissertation research. Considerable autonomy is granted to the academic unit in the design, administration, evaluation, and approval of the dissertation proposal. Pass/fail only.

690 MASTER'S COMPREHENSIVE EXAMINATION (Variable Credit). The culminating activity (or part of the culminating activity) for a non-thesis master's program. Considerable autonomy is granted to the academic unit in the design, administration, and evaluation of the comprehensive examination. May be attempted only after completion of all required core courses and admission to candidacy. Other conditions may be imposed by the academic unit responsible for the program. May not be used for a master's thesis defense. Pass/fail only.

691 DOCTORAL COMPREHENSIVE EXAMINATION (Variable Credit). Taken when the doctoral student is in Regular Status and has completed a significant number of course credits applicable to the degree requirements. Considerable autonomy is granted to the academic unit in the design, administration, and evaluation of the comprehensive examination. Pass/fail only.

692 CAPSTONE COURSE (Variable Credit). A final comprehensive assessment of the knowledge and skills of a master's student in the major field of study. A culminating activity taken in the last semester of a master's program. Either graded or pass/fail.

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

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

697 SPECIAL TOPICS [Required Modifier] (Variable Credit). Instruction on a topic that is not included in the catalog of regular graduate courses; the topic is indicated by the required modifier. Descriptions for these courses are given in the schedule of classes published each semester. Either graded or pass/fail.
Course Prefixes

Table 11.4 below, lists all the course prefixes used at Boise State. A course prefix is the two or more letter code preceding a course number; it indicates the subject area of the course.

Table 11.4 Course Prefixes

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How to Read a Course Description

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**BIOL 527 STREAM ECOLOGY (3-3-4)(F)(Odd years).** The biology and ecology of flowing waters is emphasized; their biota, management, and ecology at both the community and ecosystem level will be discussed. PREREQ: Graduate standing or PERM/INST.

**Course Description Key**

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

1) **Course prefix/subject** The prefix indicates the department or academic unit offering the course. See Table 9 for a complete list of course prefixes.

2) **Course numbering system** Each course offered is assigned a unique number, indicating what type of course it is and what sort of credits may be earned in the course. Courses are numbered as follows:

- 00–99 non-academic credit courses
- 100–199 lower-division undergraduate courses
- 200–299 lower-division undergraduate courses
- 300–499 upper-division undergraduate courses
- 500–699 graduate courses

3) **Course title** The official title of the course.

4) **Credits** According to Idaho State Board of Education policy, forty-five (45) clock-hours of student involvement are required for each semester credit, which includes a minimum of fifteen (15) student contact hours for each semester credit. The unique course number of each course is followed by a sequence of three numbers that indicate the number of lecture hours per week that the course meets, number of lab hours per week that the course meets, and the number of credits a student earns by completing the course. The following examples show typical uses of these additional numbers:

- (3-0-3) a 3-hour lecture class carrying 3 credits
- (3-4-5) a 3-hour lecture class with a corresponding 4-hour laboratory class, carrying 5 credits
- (0-4-0) a 4-hour laboratory class that carries no credit
- (0-2-1) a 2-hour studio art class or fitness activity class, carrying 1 credit

Note: A V is used to indicate variable credits or hours.

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

- F fall semester only
- S spring semester only
- SU summer session only
- F, S fall and spring semester
- F, SU fall semester and summer session only
- S, SU spring semester and summer session only
- F/S fall semester, spring semester, or both
- F/SU fall semester and summer session
- S/SU spring semester, summer session, or both
- F, S, SU fall semester, spring semester, and summer session
- F/S/SU fall semester, spring semester, or summer session

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

6) **Additional information** Associated with the scheduling of the course or showing the special status of a course, such as a notice of alternate year offering, may be given in parentheses after the semester code.

7) **Requisites** The list of requisites specifies any prerequisites and/or corequisites using the following abbreviations:

- **PREREQ:** prerequisite (condition to be met before enrollment)
- **COREQ:** co-requisite (condition met before or during enrollment)
- **PERM/INST:** permission of instructor required to enroll
- **PERM/CHAIR:** permission of department chair required to enroll
- **ADM/PROG:** admission to program required to enroll

The most common type of prerequisite is a specific course that must be successfully completed prior to enrollment. Typically, a co-requisite is a laboratory course that must be taken during the same semester or term as a related science course.

**Course Terminology**

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

**Cross-listed**

Graduate courses are said to be cross-listed if they are offered by multiple academic units and have identical titles, credit codes, and content descriptions in each unit (such as BIOL 511 and BMOL 511).

**Dual-listed**

Courses offered by an academic unit at both the 400-level and 500-level with identical titles, credit codes, and content descriptions (such as GEOPH 420 and GEOPH 575).

**G-course**

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

Department of Accountancy

College of Business and Economics

Chair: Troy Hyatt
Micron Business and Economics Building, Room 3130
(208) 426-3461 (phone)
acct@boisestate.edu (email)
https://cobe.boisestate.edu/msa/ (website)

Graduate Faculty: Bahnsen, Baxter, Cowan, Filzen, Gooden, Hyatt, Mosebach

Graduate Degrees Offered

• Master of Science in Accountancy
• Master of Science in Accountancy, Taxation

General Information

The Master of Science in Accountancy (MSA) and Master of Science in Accountancy, Taxation (MSAT) programs provide the opportunity to enhance your professional competence and acquire the skills necessary to offer value-added services to clients. Each program builds upon knowledge and skills previously acquired in undergraduate accounting courses.

These degree programs are appropriate for students with either or both of the following goals:

1. Accounting professionals who want to expand their knowledge and become familiar with recent developments in the accounting field.
2. Recent undergraduate accounting graduates who want to expand their understanding of accounting and earn enough college credits to meet the minimum required for the CPA Exam.

Due to our location in Boise, many local internship opportunities are available. MSA and MSAT students may apply up to 3 credit-hours from an internship toward their graduation requirements.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended
2. Graduate Management Admission Test (GMAT) score of 500 or better. We also accept Graduate Record Examinations (GRE) scores with minimum target scores of 152 in both the verbal and math categories. A higher GPA may offset a slightly lower GMAT or GRE score and vice versa.
3. Fast Track admission waives the GMAT or GRE test requirement and the essay requirement for applicants who meet at least one of the following criteria: 1) Completed at least 18 semester credits in upper-division (300, 400 or 500 level) accounting courses taken for undergraduate credit and have graduated from a regionally accredited institution and achieved a 3.0/4.00 or better GPA in all their upper-division accounting courses and a 3.0/4.00 or better cumulative GPA, 2) Current CPAs, Certified Management Accountants (CMA), or Certified Internal Auditors (CIA), Applicants should request a letter be sent directly to the Graduate College from the appropriate state board or national organization verifying their certification status, or 3) Earned an advanced degree (masters, doctorate, etc.) from a regionally accredited institution in any discipline.
4. English proficiency is required. International students must score at least 587/240/95 on the TOEFL exam or 6.5 on the IELTS exam.

5. A solid foundation in accounting is required to succeed in the MSA program. Successful completion of all undergraduate accounting courses and the business core required for Boise State University's BBA in Accountancy degree demonstrates that foundation. Equivalent courses from another accredited university can be considered to meet this requirement.
6. MSAT applicants should also bring a strong background in accounting, but the MSAT program specifically requires only ACCT 302 Survey of Federal Income Taxation (or its equivalent) prior to enrolling in MSAT courses. Applicants are evaluated on a case-by-case basis and individuals may be required to prepare for MSAT courses by completing specific undergraduate accounting courses.
7. In addition, applicants without a degree in accountancy seeking professional certification are advised to consult with the appropriate State Board of Accountancy regarding additional coursework required for certification.
8. Applicants to either program are evaluated based on motivation level, prior academic performance, GMAT or GRE scores, managerial potential, and essays. Details can be found on the COBE graduate programs website: https://cobe.boisestate.edu/graduate-programs-overview/.

Graduate Assistantships

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

MASTER OF SCIENCE IN ACCOUNTANCY

Graduate Studies Director: Zeynep Hansen
Program Administrator: Trisha Stevens Lamb
Micron Business and Economics Building, Room 4101
(208) 426-3116 (phone)
graduatebusiness@boisestate.edu (email)
https://cobe.boisestate.edu/graduate-programs-overview/ (website)

Degree Requirements

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<thead>
<tr>
<th>Course Number and Title</th>
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Non-Accountancy Electives must be approved by the student's graduate advisor.
MASTER OF SCIENCE IN ACCOUNTANCY (ONLINE PROGRAM)
Graduate Studies Director: Zeynep Hansen
Program Administrator: Trisha Stevens Lamb
Micron Business and Economics Building, Room 4101
(208) 426-3116 (phone)
graduatebusiness@boisestate.edu (email)
https://cobe.boisestate.edu/msa/ (website)

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MASTER OF SCIENCE IN ACCOUNTANCY, TAXATION CONCURRENT JURIS DOCTORATE PROGRAM
Graduate Studies Director: Zeynep Hansen
Program Administrator: Trisha Stevens Lamb
Micron Business and Economics Building, Room 4101
(208) 426-3116 (phone)
graduatebusiness@boisestate.edu (email)
https://cobe.boisestate.edu/msa/ (website)

General Information
Students may elect to enroll concurrently in our MSAT program and the University of Idaho’s juris doctorate (JD) program in order to earn two coveted degrees in a streamlined fashion.
A student who wishes to participate in this concurrent program must be separately admitted to the MSAT and JD programs under the normal admission process before being considered for admission to the concurrent program. If admitted to the concurrent program, the student must satisfy the requirements of each degree as well as the requirements of the concurrent program.

Up to 12 credits earned in the University of Idaho law courses (prefix LAW) can be applied to meet the requirements of the MSAT program, and up to 12 credits in the Boise State University accountancy courses (prefix ACCT) can be applied to meet the requirements of the JD program. This dual application of credit is governed by additional stipulations specially developed for the concurrent program and students must specifically apply to the concurrent program. Contact the program administrator for details.

Degree Requirements

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Non-Accountancy Electives must be approved by the student's graduate advisor. For students in the concurrent JD/MSAT program, the maximum transfer credits from the University of Idaho is 12 credits. For Taxation Courses, 3 to 12 credits can come from University of Idaho tax law courses. ACCT 525 Partnership Tax Law and ACCT 530 Corporate Tax Law will not count toward this requirement without the permission of the program advisor.
Course Offerings

See Course Numbering and Terminology for definitions.

ACCT—Accountancy

ACCT 505 ADVANCED AUDITING (3-0-3)(F/S/SU). In-depth study of auditing from an external auditor's perspective. Topics include substantive testing, evidence, planning, reporting, documentation, and case studies. The course includes a major project in external auditing. PREREQ: ADM/PROG.

ACCT 507 FORENSIC ACCOUNTING AND FRAUD EXAMINATION (3-0-3)(S). Introduction to forensic accounting, with an emphasis on fraud auditing. Examines professional standards, licensure requirements, engagement planning, evidence collection, as well as reporting and other professional requirements. Includes the unique role of the forensic accountant as a litigation support specialist and related legal and ethical considerations. PREREQ: ADM/PROG.

ACCT 510 ADVANCED FINANCIAL REPORTING (3-0-3)(F/S). Topics include financial reporting for segment and interim reporting, foreign currency transactions and translation, not-for-profit accounting, and other current topics. PREREQ: ADM/PROG.

ACCT 512 FINANCIAL REPORTING THEORY (3-0-3)(F). A critical analysis of the concepts and premises underlying financial reporting practices. Coverage includes the conceptual framework, current accounting standards and their origins, and other current topics in financial reporting. PREREQ: ADM/PROG.

ACCT 514 ADVANCED MANAGERIAL ACCOUNTING (3-0-3)(F/S). Advanced applications of managerial accounting information for strategic management decisions. Coverage includes specialized tools for planning, operating and control decisions such as strategic cost management, strategic performance measurement and incentive systems, and activity- and resource-based costing. Emphasis is placed on the understanding and use of state of the art managerial accounting techniques. PREREQ: ADM/PROG.

ACCT 516 FINANCIAL ANALYSIS AND VALUATION (3-0-3)(F). Study of the theory and practice of financial statement analysis and business valuation. Methods of fundamental analysis and business valuation are examined and applied in problems, cases and projects. PREREQ: ADM/PROG.

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

ACCT 520 TAX AND ACCOUNTING RESEARCH (3-0-3)(F). Instruction in all aspects of tax research including legislative, administrative and judicial sources; major tax services, and Internet-based tax research libraries. While the majority of the course focuses on tax research, the course also includes instruction in ethical issues in tax practice and instruction in financial accounting research resources, including the FASB Codification. PREREQ: ADM/PROG.

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

ACCT 530 CORPORATE TAX LAW (3-0-3)(S/SU). Tax considerations in corporate formations, operations, distributions, redemptions, reorganizations, and liquidations. Includes a study of S corporations and an overview of financial accounting for income taxes. PREREQ: ADM/PROG.

ACCT 535 ESTATE AND GIFT TAXATION (3-0-3)(F/S/SU). Federal estate and gift taxes, including estate planning. PREREQ: ADM/PROG.

ACCT 540 TAXATION OF NONPROFIT ORGANIZATIONS (3-0-3)(SU). Overview of tax issues affecting nonprofits. Topics include: qualifying for and maintaining federal tax-exempt status, the unrelated business income tax, private foundations, and charitable deductions. PREREQ: ADM/PROG.

ACCT 546 ACCOUNTING FOR INCOME TAXES (3-0-3)(F/S). Focuses on the financial reporting (U.S. GAAP) related to income tax provisions under FASB Accounting Standards Codification Topic 740 (ASC 740). Prepares students to calculate and report income tax amounts related to the income statement, balance sheet, cash flow statement, income tax footnote, and related disclosures. PREREQ: ADM/PROG.

ACCT 550 ADVANCED AIS AND IT AUDIT (3-0-3)(S). Advanced coverage of the intersection of accounting, information technology, and analytics. Course includes topics such as IT infrastructure from a controls and security perspective, IT audit principles, data analytic tools, and communication of complex information. Students will assume leadership roles with respect to group and team assignments. PREREQ: ADM/PROG.

ACCT 570 MULTI-STATE TAXATION (3-0-3)(F). State income tax issues and sales and use tax issues with a special focus on issues faced by multistate taxpayers. PREREQ: ADM/PROG.

ACCT 575 INTERNATIONAL TAXATION (3-0-3)(F/S/SU). Multinational tax law for domestic corporations with operations abroad and nonresident citizens. PREREQ: ADM/PROG.

ACCT 579 PERSONAL FINANCIAL PLANNING (3-0-3)(S). The course focuses on the tools to help individuals reach their personal financial goals. There will be five main areas of emphasis: investments, insurance coverage/asset protection, income tax planning, retirement planning and estate planning. The areas will be covered in the personal finance framework. PREREQ: ADM/PROG.

ACCT 580 SELECTED ACCOUNTING TOPICS (3-0-3)(S). Current accounting topics and issues are investigated in this class. Selected Accounting Topics May be taken once, as either ACCT 480 or ACCT 580. PREREQ: PERM/INST.

ACCT 585 VOLUNTEER INCOME TAX ASSISTANCE (VITA) PROGRAM (0-2-1)(S). Supervised participation in the Volunteer Income Tax Assistance (VITA) Program. VITA is an IRS initiative designed to promote and support free tax return preparation services for underserved low-to-moderate income individuals, persons with disabilities, the elderly, and those with limited English speaking ability. May be repeated once for a total of 2 credits. PREREQ: ACCT 302 and ADM/PROG.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Department of Anthropology

College of Arts and Sciences

Chair: John Ziker
Hemingway Center, Room 55
(208) 426-3023 (phone)
(208) 426-4329 (fax)
anthropology@boisestate.edu (email)
https://anthropology.boisestate.edu (website)

Graduate Faculty: Demps-Warden, Hill, Plew, Snopkowski, Yu, Ziker

Graduate Degrees Offered

• Master of Arts in Anthropology
• Master of Applied Anthropology

General Information

The Department of Anthropology offers two distinct graduate programs. The program leading to the Master of Arts in Anthropology degree emphasizes research and requires completion of a thesis. The program leading to the Master of Applied Anthropology (MAA) degree is a professional science program and requires completion of a project representing exemplary professional practice. Students in both programs complete a core of advanced courses providing thorough exposure to modern theory and methods in anthropology.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree in anthropology from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of intent (describing background, academic interests, and career goals).
3. Graduate Record Examinations (GRE) General Test scores.
4. An academic writing sample.
5. Two letters of recommendation from academic faculty.

MASTER OF ARTS IN ANTHROPOLOGY

Graduate Program Coordinator: Mark Plew
Hemingway Center, Room 55
(208) 426-3444 (phone)
(208) 426-4329 (fax)
mplew@boisestate.edu (email)
https://anthropology.boisestate.edu (website)

Degree Requirements

Students must complete at least 31 credits distributed as shown in the degree requirements table. All requirements for the degree must be completed within a period of seven years.

Master of Arts in Anthropology

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<td>ANTH 502 Human Evolutionary History and Development</td>
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MASTER OF APPLIED ANTHROPOLOGY

Graduate Program Coordinator: Mark Plew
Hemingway Center, Room 55
(208) 426-3444 (phone)
(208) 426-4329 (fax)
mplew@boisestate.edu (email)
https://anthropology.boisestate.edu (website)

Degree Requirements

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Master of Applied Anthropology

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<td>ANTH 524 Introduction to Cultural Resource Management</td>
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Course Offerings

ANTH—Anthropology

ANTH 501 ADAPTATION AND HUMAN BEHAVIOR (3-0-3)(F). Theories and methods used to address questions related to the proximate (structure of adaptations) and ultimate (adaptive significance) causes of human behavior. Processes occurring on generational and evolutionary time scales with emphasis on procurement, mating, parenting, social exchange and distribution, demographic transition, human universals, and cultural diversity.

ANTH 502 HUMAN EVOLUTIONARY HISTORY AND DEVELOPMENT (3-0-3)(F). Theories and methods used to address questions related to the ontogenetic (developmental) and phylogenetic (evolutionary) history of humans. Evolutionary time scales with an emphasis on variation within and between human populations and other primates over time, and the interaction of human populations to environmental stress.

ANTH 503 HISTORY AND THEORY IN ANTHROPOLOGY (3-0-3)(F). A reading-intensive survey of history and theory in anthropology from classical times through the 20th century. A review of history and philosophy of science with emphasis upon innovations in 19th and 20th century theory relevant to current issues and debates.

ANTH 504 STATISTICAL METHODS IN ANTHROPOLOGY (3-0-3)(S). Concepts, methods and models used in analysis of anthropological data. Measures of correlation and central tendency, of probability and analysis of variance. Analysis of anthropological, archaeological and biological data sets. PREREQ: PERM/INST.

ANTH 513 RESEARCH DESIGN IN ANTHROPOLOGY (3-0-3)(S). Design a research project, write a proposal, and initiate search for funding. Familiarization with topics useful for developing career in anthropology, such as approaching funding institutions, publishers and employers, and participating in professional organizations.

ANTH 520 ADVANCED GEOARCHAEOLOGY AND QUATERNARY ENVIRONMENTS (3-0-3)(F/S)(Alternate years). Global to site-specific scale review and evaluation of lithostratigraphic and biostratigraphic contexts focusing on the last three million years of human prehistory. Emphasis on integration of chronologic, biotic, geomorphic and isotopic evidence of environmental change on the human time-scale. PREREQ: PERM/INST.

ANTH 521 HUMAN PALEOECOLOGY OF NORTH AMERICA (3-0-3)(F/S)(Alternate years). Examines the application of physical and biotic evidence to evaluate changing environments and their relationship to prehistoric human populations. Focus is on past environmental change in western North America placed within continental-scale and global-scale contexts. PREREQ: PERM/INST.

ANTH 522 HUNTER-GATHERER ETHNOARCHAEOLOGY (3-0-3)(F/S) (Alternate years). Examination of variability in adaptations by modern hunter-gatherer populations emphasizing subsistence, mobility, and social organization. Focus is on examination of lithic technology, faunal analysis, and site structure as sources of archaeological interpretation.

ANTH 523 ADVANCED ARCHAEOLOGICAL FIELD METHODS (3-0-3)(SU). Emphasis upon developing research designs, decision-making, and in-field project management. Open to students with previous field experience and graduate work in archaeology. PREREQ: PERM/INST.

ANTH 524 INTRODUCTION TO CULTURAL RESOURCE MANAGEMENT (3-0-3)(S). Legal and regulatory functions of heritage management within federal and state agencies with a focus on public lands. Emphasizes resource and collections management, tribal consultation, public education, archaeological ethics, and the role of research in cultural resource management.

ANTH 530 ADVANCED TOPICS IN EVOLUTIONARY ANTHROPOLOGY (3-0-3)(F/S)(Alternate years). This course provides the theoretical foundation for testing evolutionary hypotheses about human cultural variation, human physiological adaptations and social behavior, and life-history evolution, marriage, reproduction, inheritance, and subsistence. The course provides a broad, empirical view of hominin-behavioral evolution and ecology. PREREQ: PERM/INST.

ANTH 531 ECONOMIC ANTHROPOLOGY (3-0-3)(F/S)(Alternate years). The comparative study of economic behavior in hunter-gatherer, tribal, and complex societies. The course examines subsistence strategies, craft production and specialization, and exchange, as well as theoretical debates surrounding the economic topic of transition.

ANTH 532 GAME THEORY AND HUMAN COOPERATION (3-0-3)(F/S) (Alternate years). Designed as an advanced introduction to the origins and development of human sociality from the perspective of game theory and evolutionary biology. This course will review and discuss classic and new papers from anthropology, biology, economics, political science, and psychology. Issues to be explored include widespread pro-social behavior among humans, living in small vs. large groups, rank and status, sexual division of labor, and obstacles to building cooperation and peace on a number of social scales.

ANTH 580 SELECTED TOPICS IN ANTHROPOLOGY (V-0-V)(F/S). Philosophical and theoretical issues in anthropology. Developments in methodology and technical advances in anthropological research. Seminar topics will vary.
ART, DESIGN, AND VISUAL STUDIES

Department of Art, Design, and Visual Studies
College of Arts and Sciences | School of the Arts
Interim Chair: Dan Scott
Liberal Arts Building, Room 252
(208) 426-1230 (phone)
(208) 426-1243 (fax)
artdept@boisestate.edu (email)
https://art.boisestate.edu (website)

Graduate Faculty: Bacon, Blakeslee, Budde, Dinkar, Earley, Elder, Erpelding, AnnieMargaret, Fox, Keys, Lee, Peariso, Sadler, Scott, Smulovitz, Turner, Walker, Wiley

Graduate Degree Offered
- Master of Fine Arts, Visual Arts

General Information
The Department of Art, Design, and Visual Studies offers a full time Master of Fine Arts (MFA) degree in Visual Arts. The program encourages innovative work in art metals, ceramics, drawing, installation, interdisciplinary studio, new genres, painting, photography, sculpture, social practice, video, etc. The degree requires 60 total credits distributed as follows: 6 credits in art history, 30 credits in studio, 6 credits in Graduate Concourse, 6 credits in Graduate Seminar, 6 credits in thesis and 6 credits in general electives.

Students admitted to the program are provided with private studio space. Graduate faculty hold regular studio visits and consultations.

The MFA degree program fosters students’ creative, intellectual, and professional development as artists who produce excellent work, are able to discuss and contextualize their work cogently, and who are prepared to enter various career paths available to artists. Course work emphasizes applied study, art history, theory and criticism.

A Visiting Artist program that brings a wide range of artists and scholars to campus on a regular basis enhances the MFA experience by providing lectures, workshops, and critiques. The program culminates in an exhibition of a body of work, a written analysis that supports the work, and an oral defense of both

MASTER OF FINE ARTS, VISUAL ARTS
Graduate Program Director: Chad Erpelding
Campus School, Room 110A
(208) 426-4081 (phone)
chaderpelding@boisestate.edu (email)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree or master's degree in art from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. Three letters of recommendation.
3. Applicants must also submit the following to the Department of Art, Design, and Visual Studies by February 1 (submission is via http://www.slideroom.com; see program website for instructions):
   - A portfolio of 20 digital images of a recent body of work.
   - An artist statement that directly addresses the portfolio submitted
   - A statement of purpose outlining your educational and professional background, the overall objectives in your studio work, why you want to pursue an MFA, and why you are interested in the program.
   - A résumé that includes educational background, exhibition record, awards, grants, reviews, and any other pertinent information.
   - Additional supporting statement if applying for a graduate assistantship.

Graduate Assistantships
Assistantships are available for full-time students and are awarded competitively. Assistantships include an out-of-state tuition waiver, in-state fee waiver, and a stipend. Assistants must enroll for a minimum of five credit hours each semester and must meet any other requirements as set forth by the Graduate College. Applications are available at the Graduate College website and must be submitted to the Department of Art, Design, and Visual Studies on or before February 1.

Degree Requirements

<table>
<thead>
<tr>
<th>Master of Fine Arts, Visual Arts</th>
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</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
</tr>
<tr>
<td>ART 575 Graduate Seminar</td>
</tr>
<tr>
<td>ART 576 Studio Practices (3-6 credits per semester)</td>
</tr>
<tr>
<td>ART 577 Graduate Concourse</td>
</tr>
<tr>
<td>ART 580 Selected Topics: Studio and/or ART 596 Independent Study</td>
</tr>
<tr>
<td>ART 589 Selected Topics Art History or other graduate level art history</td>
</tr>
<tr>
<td>ART 683 Master of Fine Arts Visual Arts Thesis and Exhibition</td>
</tr>
<tr>
<td>Electives at the graduate level</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>
Course Offerings

ART—Art

ART 501 CONTEMPORARY ISSUES AND RESEARCH IN ART EDUCATION (3-0-3)(S)(Alternate years). Exploration of frameworks for graduate level art education inquiry through use of research methods and/or creative activities. In-depth examination of current contemporary issues affecting both theory and practice in the national and international field of art and art education. PREREQ: Graduate status or PERM/INST.

ART 521 TEACHING THROUGH EXPERIMENTAL ART MEDIA (0-6-3)(SU). Varied and unique experimental art processes and media to be used in conjunction with creative teaching techniques that emphasize critical thinking skills and the development of new or enriched art(s) curricula for K-12. Students will solve procedural problems and adapt art media to teaching experiences. Outside reading and creative exploration will be expected, as well as a final presentation including a written paper. PREREQ: Graduate standing.

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

ART 560 ART AND DESIGN STUDY PROGRAM IN JAPAN (1-3 credits)(SU). A survey of various art and design disciplines of Japan that are an integral part of Japanese culture. Students explore Japanese art through the lens of contemporary visual culture. May be repeated for credit. PREREQ: Graduate standing and PERM/INST.

ART 575 GRADUATE SEMINAR (3-0-3)(F). Students investigate current theories of art and culture and articulate a critical understanding of researched ideas in relation to contemporary art practice. May be repeated for credit.

ART 576 STUDIO PRACTICES (0-V-V)(F/S). Through intensive group critiques, students develop a body of work. May be repeated for credit. PREREQ: Graduate standing and PERM/INST.

ART 577 GRADUATE CONCOURSE (3-0-3)(S). Through research, readings, and discussions, students develop their ability to situate their studio practice within the context of contemporary art and culture. May also involve at least one class trip to a destination relevant to the contemporary art world. May be repeated for credit. PREREQ: Graduate standing and PERM/INST.

ART 580 SELECTED TOPICS: STUDIO (0-V-V)(F/S). Work with practicing fine art professionals from a variety of art and design disciplines either in an emphasis area or in other related media. PREREQ: PERM/INST.

ART 588 SELECTED TOPICS: ART EDUCATION (V-0-V)(F/S). Research issues in art and art education through writing assignments, critical discussion, and other appropriate means in order to consider the various possible relations between art education, theory and practice. PREREQ: PERM/INST.

ART 589 SELECTED TOPICS: ART HISTORY (3-0-3)(S). Research issues in art, art history and visual culture through writing assignments and critical discussion in order to consider the various possible relations between history, theory and practice. May be repeated for credit. PREREQ: PERM/INST.

ART 683 MASTER OF FINE ARTS VISUAL ARTS THESIS EXHIBITION (Variable)(F/S). Independent creative activity resulting in a thesis exhibition, written analysis, and final oral defense. (Pass/Fail). PREREQ: Graduate standing and PERM/INST.
Department of Biological Sciences

College of Arts and Sciences

Chair: Kevin Feris
Science Building, Room 107
(208) 426-5498 (phone)
(208) 426-1040 (fax)
https://biology.boisestate.edu/ (website)

Graduate Faculty: Albig, Barber, Beard, Bechard, Belthoff, de Graaff, Feris, Forbey, Hampkian, Hayden, Heath, Jorcyk, Koetsier, Morrison, Munger, Novak, Oxford, Robertson, Rohn, Serpe, Smith, Tinker, White, Wingett

Graduate Degrees Offered

- Doctor of Philosophy in Ecology, Evolution, and Behavior
- Master of Arts in Biology
- Master of Science in Biology
- Master of Science in Raptor Biology

Interdisciplinary Programs

- Doctor of Philosophy in Biomolecular Sciences
- Doctor of Philosophy in Materials Science and Engineering
- Master of Science in Biomolecular Sciences
- Master of Science in Hydrologic Sciences

General Information

We offer a comprehensive graduate education that spans the breadth of the contemporary biological sciences and prepares students for real world careers. We have award winning professors who are passionate about mentoring students and conducting cutting edge research. The general requirements of the Boise State Graduate College govern the graduate programs in Biological Sciences.

DOCTOR OF PHILOSOPHY IN ECOLOGY, EVOLUTION, AND BEHAVIOR

Graduate Program Coordinator: James Smith
Program Manager: Brittany Archuleta
Science Building, Room 207
(208) 426-4621 (phone)
eebprogram@boisestate.edu (email)

Participating Departments

- Anthropology
- Biological Sciences
- Geosciences
- Human-Environment Systems

Application Deadline

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- January 15 (fall admission only)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A cover letter that describes the applicant’s overall academic interests and goals, specific scientific interests, summarizes previous research experience, and gives a situation where problem solving and creativity helped the applicant overcome a challenge.
3. Official Graduate Record Examinations (GRE) General Test scores (subject scores are not required).
4. A curriculum vitae.
5. Three letters of recommendation.
6. Provide 1 to 3 names of EEB advisors whom the applicant is interested in working with during their dissertation.
7. Competitive applicants should have 1) an undergraduate GPA of at least 3.00 on a 4-point system, 2) results that average in the 50th or higher percentile in the verbal, quantitative, and analytical writing portions of the GRE exam, and 3) an undergraduate degree in a closely related field. Provisional admission may be granted to those otherwise promising applicants who do not meet GPA or GRE requirements or who have course work deficiencies.

Student Support

Graduate assistantships that include a stipend, a tuition and fee waiver, and student health insurance may be available from the EEB program on a competitive basis. Alternatively, students may be supported via Research Assistantships from grants awarded to faculty members. Student support will be awarded on an annual basis with the opportunity to renew.

Other forms of financial aid, such as loans or the Federal Work-Study program, are available to graduate students. Prospective students should contact the Boise State Financial Aid Office.

The application file is reviewed by the EEB Graduate Studies Committee for an admission (either acceptance or denial) and financial support recommendation. Applicants are recommended for acceptance to the ecology, evolution and behavior doctoral program only if they appear qualified academically; a major advisor is identified and willing, and funding is available through a research award, fellowship, or graduate assistantship.

Degree Requirements

The Ecology, Evolution, and Behavior (EEB) program has two tracts. The Doctor of Philosophy in Ecology, Evolution, and Behavior offers maximum flexibility for student-specific course selection. The second tract, a Doctor of Philosophy in Ecology, Evolution, and Behavior with an Emphasis in Global Change Biology, will give students a strong background in contemporary challenges in Global Change Biology. The optional emphasis in Global Change Biology arises from the growing need to understand how natural and human systems interact in a time of global change. The emphasis is built upon strong core training in EEB with the addition of graduate coursework from the Geosciences, Anthropology, Economics, Public Policy, and other disciplines.
Doctor of Philosophy in Ecology, Evolution, and Behavior

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EEB 601 Principles &amp; Processes in Ecology, Evolution, &amp; Behavior</td>
<td>4</td>
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<tr>
<td>EEB 603 Science and Communication I</td>
<td>3</td>
</tr>
<tr>
<td>EEB 604 Science and Communication II</td>
<td>3</td>
</tr>
<tr>
<td>EEB 605 Current Research in EEB</td>
<td>4</td>
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<tr>
<td>Quantitative Requirement (choose at least 1 course from the following):</td>
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<tr>
<td>ANTH 504 Statistical Methods in Anthropology</td>
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<tr>
<td>BIOL 601 Biometry</td>
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<tr>
<td>BIOL 603 Advanced Biometry</td>
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<tr>
<td>EEB 607 Quantitative Methods for Population and Habitat Analysis</td>
<td></td>
</tr>
<tr>
<td>EEB 621 Advanced Ecological Data Analysis</td>
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<tr>
<td>GEOPH 522 Data Analysis and Geostatistics</td>
<td></td>
</tr>
<tr>
<td>GEOS 505 Introduction to Numerical Methods for the Geosciences</td>
<td></td>
</tr>
<tr>
<td>MATH 572 Computational Statistics</td>
<td></td>
</tr>
<tr>
<td>MATH 573 Time Series Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 574 Linear Models</td>
<td></td>
</tr>
<tr>
<td>Approved elective courses in ANTH, BIOL, BMOL, BOT, EEB, GEOS, HEB, ZOOL or related fields as approved by the supervisory committee and by the coordinator of the EEB doctoral program.</td>
<td>17-18</td>
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<tr>
<td>EEB 691 Doctoral Comprehensive Examination</td>
<td>1</td>
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<tr>
<td>EEB 693 Dissertation</td>
<td>30</td>
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<td>Total</td>
<td>66</td>
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</table>

Earth Sciences (choose 1-2 courses from the following): | 3-6 |
| BIOL 628 Geographic Information Systems in Biology | |
| GEOG 570 (GEOS 570) Earth System Science and Global Warming | |
| GEOS 511 Hydrology: Land-Atmosphere Interaction | |
| GEOS 580 Selected Topics in Watershed Hydrology | |
| GEOS 585 Selected Topics in Isotope Geoscience | |
| GEOS 605 Topics in Geomorphology | |
| GEOS 607 Paleoecology and Paleodecanography | |
| GEOS 620 Coupled Land-Atmosphere Modeling | |
| GEOS 621 Global Hydrologic Change | |
| GEOS 633 (CE 633) Contaminant Hydrogeology | |
| GEOS 636 Stable Isotope Geochemistry | |
| GEOS 638 Radiogenic Isotope Geochemistry and Geochronology | |

Approved elective courses in ANTH, BIOL, BMOL, BOT, EEB, GEOS, HEB, ZOOL or related fields as approved by the supervisory committee and by the coordinator of the EEB doctoral program. | 8-9 |

MASTER OF ARTS IN BIOLOGY

Graduate Program Coordinator: Marie-Anne de Graaff
Program Manager: Brittany Archuleta
Science Building, Room 107
(208) 426-4621 (phone)
dbsgraduate@boisestate.edu (email)

Application Deadlines

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- January 15 (fall)
- October 1 (spring)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Cover letter that discusses your professional goals, research interests, and reasons for wishing to study in this area at Boise State University. Please also note any communication you have had with faculty members regarding project interests, research opportunities, or areas of emphasis for course work.
3. Official Graduate Record Examinations (GRE) General Test scores (subject scores are not required)
4. Three letters of recommendation from academic or professional references.
5. Competitive applicants should have 1) an undergraduate GPA of at least 3.00 on a 4-point system, 2) results that average in the 50th or higher percentile in the verbal, quantitative, and analytical writing portions of the GRE exam, and 3) an undergraduate degree in a closely related field.

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

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Degree Requirements
The Master of Arts (MA), Project Option is an application-based degree and is considered to be a terminal degree (except for students intending to attend professional school); students wishing to later pursue a PhD should enroll in the MS program. In addition to completing substantial course work, the MA candidate will complete a project that may be an application or synthesis of original research carried out by others. Examples of such projects include development of biology-based curricula, compilation and analysis of studies on a range of species, review and the synthesis of a body of ideas or data, and development of a resource management plan based on relevant studies. Upon completion of the project the candidate will meet with the committee for an oral review and discussion about the project.

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

Completion of each degree program requires an average grade of B or better for all courses applied to the 30-33 credits required.

### Master of Arts in Biology, Examination Option

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 598 Graduate Seminar or BIOL 561-567 “Advanced Topics in” courses</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 579 Research in the Biological Sciences (for two semesters)</td>
<td>2</td>
</tr>
<tr>
<td>Electives to be chosen in consultation with advisor and committee: Electives for the MA may include up to a combined total of 6 credits of workshop credits, practicum/internship credits, directed research credits. A combined total of 9 credits may include approved courses taken outside the biological sciences, workshops, practicum/internship, and directed research. Workshop, directed research, and practicum/internship credits are limited to a maximum of 3 credits each.</td>
<td>28</td>
</tr>
<tr>
<td>BIOL 690 Master’s Comprehensive Examination</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
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</tbody>
</table>

### Master of Arts in Biology, Project Option

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<tbody>
<tr>
<td>BIOL 598 Graduate Seminar or BIOL 561-567 “Advanced Topics in” courses</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 579 Research in the Biological Sciences (for two semesters)</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 591 Project Students will be expected to develop a written project proposal and give an oral review and discussion of their project upon completion.</td>
<td>6</td>
</tr>
<tr>
<td>Electives to be chosen in consultation with advisor and committee: Electives for the MA may include up to a combined total of 6 credits of workshop credits, practicum/internship credits, directed research credits. A combined total of 9 credits may include approved courses taken outside the biological sciences, workshops, practicum/internship, and directed research. Workshop, directed research, and practicum/internship credits are limited to a maximum of 3 credits each.</td>
<td>23</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

### Master of Science in Biology

#### Admission Regulations
Admission to the program is based on:

1. **Official transcripts from all colleges attended.**
2. **Cover letter** that discusses your professional goals, research interests, and reasons for wishing to study in this area at Boise State University. Please also note any communication you have had with faculty members regarding project interests, research opportunities, or areas of emphasis for course work.
3. **Official Graduate Record Examinations (GRE) General Test scores** (subject scores are not required).
4. **Three letters of recommendation from academic or professional references.**
5. **Competitive applicants should have 1) an undergraduate GPA of at least 3.00 on a 4-point system, 2) results that average in the 50th percentile or higher percentile in the verbal, quantitative, and analytical writing portions of the GRE exam, and 3) an undergraduate degree in a closely related field.**

### Admissions Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. **Official transcripts from all colleges attended.**
2. **Cover letter** that discusses your professional goals, research interests, and reasons for wishing to study in this area at Boise State University. Please also note any communication you have had with faculty members regarding project interests, research opportunities, or areas of emphasis for course work.
3. **Official Graduate Record Examinations (GRE) General Test scores** (subject scores are not required).
4. **Three letters of recommendation from academic or professional references.**
5. **Competitive applicants should have 1) an undergraduate GPA of at least 3.00 on a 4-point system, 2) results that average in the 50th percentile or higher percentile in the verbal, quantitative, and analytical writing portions of the GRE exam, and 3) an undergraduate degree in a closely related field.**

### Student Support
Teaching Assistantships that include a stipend, a tuition and fee waiver, and student health insurance may be available to MS students on a competitive basis. Additional support for master’s research projects may be available from faculty members in the form of research assistantships. Other forms of financial aid, such as loans or the Federal Work-Study program, are available to graduate students. Prospective students should contact the Boise State Financial Aid Office.
Degree Requirements
The Master of Science (MS) is a research-based degree. The MS candidate will complete a thesis based on original research carried out by the student. Ideally, the thesis should make a significant contribution to the body of scientific knowledge and be of sufficient quality to warrant publication in a peer-reviewed journal.

MS students are expected to produce a written thesis proposal and give a presentation of that proposal during their first year at the proposal symposium and, following completion of the thesis, give an oral defense of the thesis, and an exit seminar to present the results to the public.

Completion of each degree program requires an average grade of B or better for all courses applied to the 30-33 credits required.

<table>
<thead>
<tr>
<th>Master of Science in Biology</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 601 Biometry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 598 Graduate Seminar or BIOL 561-567 “Advanced Topics in” courses</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Electives from course offerings that follow: Electives may include a maximum of six credits of Directed Research, must be approved by the student’s thesis committee, and may not include workshop, pass/fail or practicum/internship credits.</td>
<td>18</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

MASTER OF SCIENCE IN RAPTOR BIOLOGY
Graduate Program Coordinator: Marie-Anne de Graaff
Program Manager: Brittany Archuleta
Science Building, Room 107
(208) 426-4621 (phone)
dbsgraduate@boisestate.edu (email)

Application Deadlines
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- January 15 (fall)
- October 1 (spring)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. Cover letter that discusses your professional goals, research interests, and reasons for wishing to study in this area at Boise State University. Please also note any communication you have had with faculty members regarding project interests, research opportunities, or areas of emphasis for course work.
3. Official Graduate Record Examinations (GRE) General Test scores (subject scores are not required).
4. Three letters of recommendation from academic or professional references.
5. Competitive applicants should have 1) an undergraduate GPA of at least 3.00 on a 4-point system, 2) results that average in the 50th or higher percentile in the verbal, quantitative, and analytical writing portions of the GRE exam, and 3) an undergraduate degree in a closely related field.

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

Student Support
Teaching Assistantships that include a stipend, a tuition and fee waiver, and student health insurance may be available to MS students on a competitive basis. Additional support for master’s research projects may be available from faculty members in the form of research assistantships. Other forms of financial aid, such as loans or the Federal Work-Study program, are available to graduate students. Prospective students should contact the Boise State Financial Aid Office.

Degree Requirements
The Master of Science (MS) in Raptor Biology is a research-based degree. The MS candidate will complete a thesis based on original research carried out by the student. Ideally, the thesis should make a significant contribution to the body of scientific knowledge and be of sufficient quality to warrant publication in a peer-reviewed journal.

MS students are expected to produce a written thesis proposal and give a presentation of that proposal during their first year at the proposal symposium and, following completion of the thesis, give an oral defense of the thesis, and an exit seminar to present the results to the public.

Completion of each degree program requires an average grade of B or better for all courses applied to the 30-33 credits required.

<table>
<thead>
<tr>
<th>Master of Science in Raptor Biology</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 601 Biometry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 605 Applied Raptor Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 606 Raptor Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 598 Graduate Seminar or BIOL 561-567 “Advanced Topics in” courses</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Electives from course offerings that follow: Electives may include a maximum of six credits of Directed Research, must be approved by the student’s thesis committee, and may not include workshop, pass/fail, or practicum/internship credits.</td>
<td>13</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>
Course Offerings

BIOL—Biology

BIOL 344G MOLECULAR AND CELL BIOLOGY LABORATORY (0-8-3) (F). Modern molecular and cellular techniques including cloning, computer analysis of DNA sequences, karyotyping, DNA amplification, and use of Southern and Western blots for transgene detection and expression analysis. Some laboratory time will be arranged. PREREQ: BIOL 310 and PERM/INST.

BIOL 500 ORGANIC EVOLUTION (3-0-3) (S). Philosophical basis of evolutionary theory. Detailed examination of genetic variation, mechanisms of evolutionary change, adaptation, speciation, and phylogeny. Genetics recommended. PREREQ: Graduate standing or PERM/INST.

BIOL 504 PROTECTED AREAS (1-0-1) (F). Focuses on the role of protected areas in a changing world. Course emphasis is a multi-day field trip to the Frank Church River of No Return Wilderness, the largest wilderness in the lower 48 states. Discussion topics include the current extinction crisis, habitat loss and degradation, fragmentation, climate change, sensory pollution, and a critical analysis of the strategies and techniques to restore imperiled species and ecosystems.

BIOL 506 SCIENCE AND SOCIETY (3-0-3) (S). Showcases scientific advances made by local biologists from academia, government agencies, and private organizations who conduct research that intersects with societal issues and needs. Offers social opportunities to develop networks with these researchers and gain career advice in a variety of fields and institutions. Upon completing this course, students will understand how biological concepts, theory, and practice link to policy and how to communicate science to the public through outreach activities.

BIOL 509 MOLECULAR ECOLOGY (3-0-3) (F) (Odd years). Theory and methodologies. Use of molecular genetic markers to study ecological phenomena (e.g., mating systems, parentage and kinship, population structure, gene flow, dispersal, natural selection). Emphasis on an hypothesis-testing approach. Appropriateness of particular molecular techniques to specific research questions. PREREQ: Graduate standing or PERM/INST.

BIOL 510 PATHOGENIC BACTERIOLOGY (2-6-4) (S). Medically important bacteria, rickettsia, and chlamydia are surveyed with emphasis on their pathogenicity, host-parasite relationships, and the clinical and diagnostic aspects of the diseases they produce in humans and animals. PREREQ: BIOL 320 and BIOL 303.

BIOL 511 (BMOL 511) ADVANCED CELL BIOLOGY (3-0-3) (S). Contemporary and frontier topics in the biology of microbial, plant, and animal cells covering signal transduction, protein trafficking, membrane structure and transport, cell to cell communication, cellular compartmentalization, and cell biotechnology applications. May be taken for BIOL or BMOL credit, but not both. PREREQ: BIOL 320 or PERM/INST.

BIOL 512 GENERAL PARASITOLOGY (2-3-3) (intermittently). Study of animal parasites with emphasis on those of man and his domestic animals. Lectures cover general biology, life history, structure, function, distribution, and significance of parasites. Laboratory provides experience in identification and detection. PREREQ: BIOL 320 or PERM/INST.

BIOL 513 SYMBIOSIS (3-0-3) (Odd Years). Explores parasitic, commensalistic, and mutualistic relationships among different organisms. The diversity, evolution and ecology of symbioses will be analyzed through discussion of primary research articles. Students lead discussion sessions and prepare a mini-review essay. PREREQ: Graduate standing.

BIOL 514 (BMOL 514) FLOW CYTOMETRY RESEARCH TECHNIQUES (0-3-1) (F/S/SU). Provides a basic understanding of flow cytometry principles and applications in research and clinical setting. Students gain ‘hands-on’ experience including staining and separating blood cells, staining of DNA for cell cycle analysis, and purification of rare cell types using a cell sorter. Students apply flow cytometry to a specific research topic. May be taken for BIOL or BMOL credit, but not both. PREREQ: BIOL 320 or equivalent.

BIOL 515 APPLIED AND ENVIRONMENTAL MICROBIOLOGY (3-3-4) (S). Microbial populations and processes in soil and water. Water- and food-borne pathogens. Microbial and biochemical methods of environmental assessment. PREREQ: BIOL 303, and CHEM 301-302 or CHEM 307-308, or PERM/INST.

BIOL 516 MICROBIAL ECOLOGY (3-0-3) (Odd years). Focuses on the relationships among and biogeochemical role of microorganisms in natural communities. Course topics are structured to demonstrate the linkages between microbial ecology, diversity, and evolution; ecological interactions and ecosystem processes catalyzed by microorganisms; and understanding the role of microbial metabolism in controlling elemental cycling on local to global scales. PREREQ: Graduate standing or PERM/INST.

BIOL 520 IMMUNOLOGY (3-0-3) (S). Principles of immunology, host defense mechanisms, the immune response, immune disorders, serology, and related topics. PREREQ: BIOL 320.

BIOL 521 IMMUNOLOGY LABORATORY (0-6-2) (F/S). Modern immunological laboratory techniques including flow cytometry, immune system physiology, antibody-based assays including ELISA, vaccine design, and immuno-bioinformatics. COREQ: BIOL 520.

BIOL 522 CONSERVATION BIOLOGY (3-0-3) (Odd years). An introduction to the field of conservation biology, the applied science concerned with understanding the effects of human activities on natural biological systems and with developing practical approaches to prevent the loss of biodiversity. Topics covered will include conservation genetics, demographic analysis, habitat degradation, overexploitation, and restoration ecology. Discussion of the social, political, and economic aspects of conservation biology. PREREQ: Graduate standing or PERM/INST.

BIOL 524 SENSORY ECOLOGY (2-2-3) (F) (Odd years). Sensory ecology aims to understand how signals are produced, how they travel through the environment, how they are detected, how the receiver responds to them and ultimately how signals have evolved and shaped ecological processes such as trophic interactions and species’ distributions. Labs will focus on sensory techniques and experimental design. PREREQ: Graduate standing or PERM/INST.

BIOL 525 BASIC AND APPLIED DATA ANALYSIS IN BIOLOGY (2-0-2) (F/S). Univariate statistics using computer software (JMP, SAS Institute, Inc.) with applications to biology, natural resources, health care, education, industry, and other professional disciplines. PREREQ: Graduate standing or PERM/INST.

BIOL 526 INSECT ECOLOGY (3-0-3) (Odd years). An in-depth exploration of insect ecology, evolution, and behavior. Topics include life history evolution, insect-plant interactions, predation and parasitism, reproduction, insect societies, chemical ecology, biodiversity and pest management. PREREQ: Graduate standing or PERM/INST.

BIOL 527 STREAM ECOLOGY (3-3-4) (F) (Odd years). The biology and ecology of flowing waters is emphasized; their biota, management, and ecology at both the community and ecosystem level will be discussed. PREREQ: Graduate standing or PERM/INST.

BIOL 531 PHARMACOLOGY (3-0-3) (F). Basic pharmacological principles including mechanisms of drug action in relation to drug-receptor interactions and to the operation of physiological and biochemical systems. Pharmacokinetics, metabolism, receptor theory and an examination of major classes of therapeutic agents used in humans. PREREQ: BIOL 227-228 or BIOL 191-192, and BIOL 320.

BIOL 533 BEHAVIORAL ECOLOGY (3-0-3) (F) (Odd years). This course focuses on the evolutionary significance of animal behavior in relation to the ecology of the organisms. Using theoretical background and recent empirical evidence, mating systems, foraging, parental care, selfishness and altruism, competition, territoriality, and other behavioral patterns will be assessed in relation to the survival and reproduction of animals. PREREQ: Graduate standing or PERM/INST.
BIOL 534 PRINCIPLES OF FISHERIES AND WILDLIFE MANAGEMENT (3-0-3)(S). Integrative approach to managing game and non-game populations and habitat. Tools to determine population status, strategies to increase or decrease populations, and the implementing of monitoring programs. Current quantitative approaches within context of the ecosystem-based view of wildlife and habitat management. PREREQ: Graduate standing or PERM/INST.

BIOL 535 ECOSYSTEM ECOLOGY (3-0-3)(F)(Even years). Integrated study of biotic and abiotic components of ecosystems and their interactions. With emphasis on current topics such as global climate change, land-use change and species invasions. PREREQ: Graduate standing or PERM/INST.

BIOL 540 GENERAL AND MOLECULAR TOXICOLOGY (3-0-3)(F/S). General and molecular principles of mammalian toxicology including toxicant disposition, mechanisms of toxicity, target organ toxicity, and major classes of toxic agents. PREREQ: BIOL 320 or PERM/INST.

BIOL 541 MOLECULAR BIOLOGY OF CANCER (3-0-3)(S). A treatment of the basic biology of cancer and the process of tumor progression. Topics examined will include oncogenes, tumor suppressor genes, and the causes of cancer. PREREQ: BIOL 310, BIOL 320.

BIOL 542 MOLECULAR NEUROBIOLOGY (3-0-3)(F). Emphasis will be on the molecular aspects of neurobiology. Topics will include: cells of the nervous system, neurochemical transmission, nerve terminals, membrane structure and function, electrical signaling, neural development, process outgrowth and myelination and glia, and specific neural diseases including Alzheimer's disease, Parkinson's disease, and Lou Gehrig's disease. PREREQ: BIOL 320 and PHYS 112, or PERM/INST.

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

BIOL 544 VACCINOLOGY (3-0-3)(S). Discussion of the history, safety, epidemiology, molecular biology and immunology of vaccines. Development of the next generation of vaccines to combat infectious disease of global importance, such as HIV, malaria and tuberculosis, also will be discussed. PREREQ: BIOL 320 or PERM/INST.

BIOL 545 HUMAN GENETICS (3-0-3)(S)(Intermittently). Discussion of important aspects of human heredity. Topics include the reproductive system, single gene disorders, chromosome abnormalities, hemoglobinopathies, inborn errors of metabolism, somatic cell and molecular genetics, immunogenetics, gene screening, and human variation and evolution. PREREQ: BIOL 310 or PERM/INST.

BIOL 546 BIOINFORMATICS (2-3-3)(F). Practical training in bioinformatics methods: accessing sequence data bases, BLAST tools, analysis of nucleic acid and protein sequences, detection of motifs and domains of proteins, phylogenetic analysis, gene arrays, and gene mapping. PREREQ: BIOL 310 or PERM/INST.

BIOL 547 FORENSIC BIOLOGY (3-0-3)(F). Analysis and interpretation of biological evidence in forensic contexts. Topics include entomology, botany, fingerprints, toxicology, DNA, pathology, anthropology and odontology. PREREQ: BIOL 310.

BIOL 548 PERL FOR BIOINFORMATICS APPLICATIONS (3-0-3)(F/S). The PERL programming language is used to introduce skills and concepts to process and interpret data from high-throughput technologies in the biological sciences. Key bioinformatics concepts are reinforced through lectures, computer demonstrations, weekly readings, and programming exercises from biological sequence analysis and real-world problems in proteomics and genetics. PREREQ: BIOL 446 or PERM/INST.

BIOL 549 GENOMICS (3-0-3)(F/S). A fusion of biology, computer science, and mathematics to answer biological questions. Topics include analyzing eukaryotic, bacterial, and viral genes and genomes; locating genes in genomes and identifying their biological functions; predicting regulatory sites; assessing gene and genome evolution; and analyzing gene expression data. PREREQ: BIOL 310 and MATH 254, or PERM/INST.

BIOL 551 DEVELOPMENTAL BIOLOGY (2-6-4)(Odd years). Germ cell development, comparative patterns of cleavage and gastrulation, neurulation and induction, and development of human organ systems with emphasis on molecular and cellular mechanisms. Laboratory studies of sea urchin, frog, chick, and pig development. PREREQ: BIOL 191-192 or PERM/INST.

BIOL 561 ADVANCED TOPICS IN AQUATIC BIOLOGY (1-0-1)(F). An exploration of the current primary literature of aquatic biology. Topics vary, and may include community dynamics of algae, fish, zooplankton, and benthic invertebrates; toxic relationships; stream and reservoir management; primary and secondary production; organic matter and nutrient dynamics; and wetland ecology. May be repeated once for credit. PREREQ: Graduate standing or PERM/INST.

BIOL 562 ADVANCED TOPICS IN ANIMAL BEHAVIOR (1-0-1)(F/S). Exploration of current animal behavior and behavioral ecology literature through group discussion and presentations. May be repeated once for credit. PREREQ: BIOL 433 or 533 or ZOOL 434 or 534 and PERM/INST.

BIOL 563 ADVANCED TOPICS IN GENETIC ANALYSIS (1-0-1)(S). Presentation and discussion of topics such as human chromosome evolution, forensic DNA analysis, artificial evolution, mutation and disease, genetic patents, drug target development. May be repeated once for credit. PREREQ: BIOL 310 and PERM/INST.

BIOL 564 ADVANCED TOPICS IN MOLECULAR ECOLOGY, EVOLUTION, AND PHYLOGEOGRAPHY (1-0-1)(F/S). Presentations and group discussion of molecular aspects of ecology, evolution, and phylogeography. May be repeated once for credit. PREREQ: BIOL 401 or PERM/INST.

BIOL 565 ADVANCED TOPICS IN MOLECULAR BIOLOGY TECHNIQUES (1-0-1)(F). Discussion of scientific literature with emphasis on modern molecular biology techniques. Students lead discussions and present articles from relevant primary literature. May be repeated once for credit. PREREQ: BIOL 310 and PERM/INST.

BIOL 566 ADVANCED TOPICS IN MOLECULAR, CELLULAR, AND DEVELOPMENTAL BIOLOGY (1-0-1)(S). Discussion of current research. Students lead discussions and present articles, as well as monitor recent relevant primary literature. Previous enrollment in BIOL 465 or BIOL 565 recommended. May be repeated once for credit. PREREQ: BIOL 310 and PERM/INST.

BIOL 567 ADVANCED TOPICS IN EXTRACELLULAR MATRIX IN DEVELOPMENT AND DISEASE (1-0-1)(F/S). Review, presentation and discussion of current literature. Students present original research in context of current literature, including statement of hypothesis, review of literature, analysis and discussion of original data, in written and oral presentation format. May be repeated once for credit. PREREQ: PERM/INST.

BIOL 570 GENETIC ENGINEERING AND BIOTECHNOLOGY (3-0-3)(F/S). Applications of biotechnology, genetic engineering, and recombinant DNA technology in medical diagnosis and therapy, agriculture, microbial biology and environmental systems. The principles and application of recombinant DNA technology in industrial, agricultural, pharmaceutical, and biomedical fields are discussed. PREREQ: BIOL 310.

BIOL 577 (ME 577)(MSE 577) BIOMATERIALS (3-0-3)(F/S). Theory of biomaterials science. Medical and biological materials and their applications. Selection, properties, characterization, design and testing of materials used by or in living systems. PREREQ: CHEM 112 or MSE 245.

BIOL 579 RESEARCH IN BIOLOGICAL SCIENCES (1-0-1)(F/S). Seminars by biologists on a wide range of subjects. Students will attend
seminars, write summaries, and search for relevant literature. May be repeated once for credit. (Pass/Full.)

**BIOL 601 BIOMETRY (4-0-4)(F)**. An application of statistical methods to problems in the biological sciences. Basic concepts of hypothesis testing; estimation and confidence intervals; t-tests and chi-square tests. Linear and nonlinear regression theory and analysis of variance. Techniques in multivariate and nonparametric statistics.

**BIOL 602 POPULATION AND COMMUNITY ECOLOGY (3-0-3)(F)**. The structure of populations and communities. Competition, predation, life history strategies, demography, population regulation, and species diversity are examined from experimental and theoretical perspectives. PREREQ: Graduate standing or PERM/INST.

**BIOL 603 ADVANCED BIOMETRY (3-3-4)(S)(Even years)**. A survey of experimental design and selected multivariate techniques. The course is designed to assist students in selecting proper statistical techniques for gathering and analyzing biological data, and correctly interpreting the statistical analysis of their data. Prior experience with Statistical Analysis System (SAS) is helpful. PREREQ: BIOL 601 or PERM/INST.

**BIOL 604 INTRODUCTION TO COLLEGE BIOLOGY TEACHING (1-0-1)(F)**. An introduction to evidence-based instructional practices and how they can be applied in college biology courses. Discussion of unique challenges of being a graduate teaching assistant (TA), explore campus resources available to support TAs, and reflect on teaching practices. PREREQ: Graduate standing.

**BIOL 605 APPLIED RAPTOR BIOLOGY (3-0-3)(F)(Odd years)**. A study of the techniques appropriate to the study of the ecology, behavior, and physiology of raptors and other birds. Field trips will be taken in addition to regularly scheduled class. PREREQ: Graduate standing in Biology or Raptor Biology or PERM/INST.

**BIOL 606 RAPTOR ECOLOGY (3-0-3)(F)(Even years)**. Theoretical ecology as applied to birds of prey. Strategies of reproduction, habitat selection, foraging and spacing; theory of competition and predator-prey interactions; niche theory and community structure; raptor management. PREREQ: Graduate standing or PERM/INST.

**BIOL 613 (BMOL 613) MOLECULAR GENETICS (3-0-3)(F/S)**. An advanced study of genetics in microbial, animal and plant systems, focused on the biochemical and molecular aspects of genetic structure and function. Information obtained from recent genomic analysis and comparisons will be included as well as discussion of contemporary molecular biology techniques and applications and an introduction to genomics. May be taken for BMOL or BIOL credit, but not both. PREREQ: BIOL 316 or equivalent.

**BIOL 617 SPECIES AND SPECIATION (3-0-3)(F)(Odd years)**. Species definitions are fundamental for all investigations in the biological sciences. This course will investigate the numerous species concepts proposed over the last 100 years with an emphasis on primary literature. Concepts to be discussed will include biological, phylogenetic, genealogical, and evolutionary species concepts. The second part of the course will emphasize the processes involved in speciation, looking at both micro- and macroevolutionary events. PREREQ: BIOL 400 or BIOL 500 or PERM/INST.

**BIOL 629 MODERN METHODS IN ECOLOGY AND BEHAVIOR (2-3-3)(S)(Odd years)**. Instruction in the theory, practice, and analysis of modern methods used in ecological and evolutionary studies will be provided. Methods to be covered include: cytology, isozyme electrophoresis, DNA restriction site analysis, DNA sequencing, and RAPD analysis. PREREQ: PERM/INST.

**BIOL 650 WRITING FOR BIOMEDICAL SCIENCES (1-0-1)(F/S)**. This writing course is designed for graduate students in biomedical science disciplines who are ready to begin, or who are currently working on, a manuscript. Examination of principles and practice of writing research manuscripts, articles, abstracts, and oral presentations will be included. Detailed examination of scientific publication process includes issues of style, organization, and ethics. Students draft, critique, and revise their own manuscripts and learn to review the manuscripts of others. PREREQ: PERM/INST.

**BOT—Botany**

**BOT 302G PLANT ANATOMY AND MICROTECHNIQUE (3-3-4)(S)**. A study of the structure and development of vascular plant tissues, regions, and organs. Emphasis will be placed on the Angiosperms. Laboratory work includes preparation of hand and paraffin sections, staining, and observation of plant tissues using various types of light microscopy. PREREQ: BIOL 191-192.

**BOT 305G SYSTEMATIC BOTANY (2-6-4)(S)**. Fundamental problems of taxonomy. Discussion of historical development of classification systems and comparison of recent systems. Instruction on use of keys and manuals. PREREQ: BIOL 191-192 or PERM/INST.

**BOT 330G MYCOLOGY (3-3-4)(F)**. A study of the biology of fungi with emphasis on their classification, morphology and development, identification, ecology, and economic significance. Laboratory work will include projects and field trips. PREREQ: BIOL 191-192 or PERM/INST.

**BOT 501 PLANT PHYSIOLOGY (3-3-4)(F)(Odd years)**. A study of plant biophysical and biochemical processes. Includes coverage of cell, tissue, and organ function, photosynthesis, water relations, mineral nutrition, transport mechanisms, growth and development, secondary metabolites, and plant responses to the environment. PREREQ: BIOL 191-192 and BIOL 320.

**BOT 524 PLANT COMMUNITY ECOLOGY (3-3-4)(F)(Even years)**. Properties, structure, method of analysis, classification, and dynamic nature of plant communities. Strengths and weaknesses of various sampling techniques, role of disturbance events and succession on community structure, and role of biological interaction as factors influencing assembly of communities. Vegetation sampling methods and habitat type classification of local plant communities. Methods of analyzing and reporting data. BOT 305 highly recommended. PREREQ: Graduate standing or PERM/INST.

**BOT 530 MOLECULAR AND CELLULAR BIOLOGY OF PLANTS (3-0-3)(S)(Odd Years)**. Discussion of plant development, plant responses to abiotic factors, and interactions between plants and other organisms from a molecular and cellular perspective. Examination of molecular approaches used to improve plant traits that facilitate sustainable agriculture and remediation of environmental problems. Students conduct a long term experiment to gain experience in plant transformation. PREREQ: BIOL 320 or PERM/INST.

**BOT 541 PLANT DEVELOPMENTAL BIOLOGY (3-3-4)(S)(Even years)**. A description of plant development from a molecular and cellular perspective. Topics discussed include gene expression and cell signaling pathways, and their roles in the control of embryogenesis, plant growth, flowering, and fruit maturation. Examination of techniques and model systems used in the study of plant development. Each student will complete a project. PREREQ: BIOL 320.

**EEB—Ecology, Evolution, and Behavior**

**EEB 501 SENSORY ECOLOGY AND EVOLUTION (3-0-3)(F/S)**. Examination of how information transmission, via various sensory systems, mediates animal behavior and shapes biological processes, such as predator/prey
interactions and species' distributions. Discussion of the impacts of anthropogenic sensory pollution on ecological function.

EEB 601 PRINCIPLES AND PROCESSES IN ECOLOGY, EVOLUTION AND BEHAVIOR (3-3-4)(F). Discusses principal ecological processes and interactions, both biotic and abiotic, that organisms rely on and perform to acquire the necessary energy, water, carbon, and nutrients for growth, metabolism, and reproduction. Mechanisms driving evolutionary responses at the species and population levels are discussed in the context of how evolutionary processes influence ecosystem level responses to a variety of factors, including changing climate, anthropogenic use patterns, species invasions, and nutrient cycles.

EEB 603 SCIENCE AND COMMUNICATION I (3-0-3)(F). Focuses on philosophy and process of conducting science, concept development, and experimental design. Emphasizes practical skills in sampling schemes, data management, metadata, accessing publicly available data, and using research-related software. Development of written and oral skills through preparing proposals and papers and delivering presentations. Application of different strategies for communicating with other scientists, collaborators, decision-makers, media, and the public.

EEB 604 SCIENCE AND COMMUNICATION II (3-0-3)(S). Continues the focus, skills development and practice begun in EEB 603. PREREQ: EEB 603.

EEB 605 CURRENT RESEARCH IN EEB (2-0-2)(F/S). Invited and contributed presentations on current topics in ecology, evolution, and behavior. Examines presentation style and effective techniques. Examination of literature on current topics, contributing to speaker scheduling and hosting. May be repeated for credit.

EEB 606 SCIENCE AND SOCIETY IN THE GREAT BASIN (3-0-3)(F/S). Case studies by local biologists from academic, government agencies, and private organizations using science to solve ecological problems in the Great Basin. Examines how different stakeholders study, manage, and conserve the wildlife, plants, soils and climate that shape the Great Basin. Includes applied communication of science to the public through outreach that promotes management of healthy landscapes and wildlife in local ecosystems.

EEB 607 QUANTITATIVE METHODS FOR POPULATION AND HABITAT ANALYSIS (2-2-3)(F/S). Theory and methods of how to use empirical data to make valid inferences about populations and habitats. Uses software and literature applied to various types of analyses of population and habitat data and models, including traditional, Bayesian, and hierarchical models that explain survival, occupancy, and abundance. Focus on reliable estimation of population parameters, measures of precision for estimates, and use of covariates to explain population patterns.

EEB 608 SPATIAL ECOLOGY (3-0-3)(F/S). Focuses on both techniques (geospatial mapping and modeling) and problems (landscape connectivity, animal movement strategies associated with spatial ecology). Examination of mechanisms that can cause spatial pattern formation in species distributions and of metapopulation dynamics and dispersal strategies. Selection and use of appropriate software for spatial analyses. Includes both theoretical sessions and computer exercises.

EEB 609 ADVANCED COMMUNITY ECOLOGY (3-0-3)(F/S). Fundamentals of community ecology and current theories and quantitative tools for determining community assembly rules, describing diversity patterns, and linking community structure to community functions.

EEB 610 MICROBIAL ECOLOGY (3-0-3)(F/S). Focuses on the relationships among and biogeochemical role of microorganisms in natural communities. Topics structured to demonstrate the linkages between microbial ecology, diversity, and evolution. Strengths, limitations, and caveats of modern microbial methods for assessing ecological interactions. Role of microbial metabolism in controlling elemental cycling on local to global scales.

EEB 611 CHEMICAL ECOLOGY AND EVOLUTION (3-0-3)(F/S). Surveys topics related to the chemical ecology and co-evolutionary interactions between plant and herbivores. Material focuses on quantifying doses of chemical defenses in plants and responses of herbivores to those defenses from an evolutionary, physiological, pharmacological and ecological perspective. Design, conduct, analyze and present an experiment testing an hypothesis related to chemical ecology and evolution.

EEB 612 PLANT ECOPHYSIOLOGY (3-0-3)(F/S). Responses of plants in terrestrial ecosystems to, and interaction with, environmental conditions. Physiological responses of plants and their ecosystems to environmental factors and stressful conditions. Interaction of plants with environment to capture, use and cycle resources such as carbon, water and nutrients. Emphasis on plant responses and plant-soil-atmosphere interactions from a global environmental change perspective such as increased carbon dioxide concentration and temperature and altered precipitation patterns.

EEB 613 LANDSCAPE AND CONSERVATION GENOMICS (3-0-3)(F/S). Application of evolutionary analysis to real-world biological problems. Use of large data sets and diverse computational approaches in analyzing population structure, signatures of natural selection, and demographic and disease-related processes. Emphasizes human-driven global changes that accentuate or disrupt natural evolutionary processes and linkages at the individual, population, community, and species levels. Includes a focus on the consequences of landscape-level patterns to the spatial genetic structure of populations.

EEB 614 PHYLOGENETICS AND ADVANCED EVOLUTION (3-0-3)(F/S). Explores the basics of phylogenetics, applications, and current software used to generate histories of organisms. Interpretation of macro-evolutionary processes using phylogenetic history. Topics include multiple sequence alignment, genomic data analysis, generation of phylogenetic trees via parsimony, likelihood and Bayesian methods as well as networks. Examines phylogenetic trees for ancestral character state reconstruction, molecular dating, biogeography, climate shifts, and species trees.

EEB 615 BIODIVERSITY AND ECOSYSTEM FUNCTION (3-0-3)(F/S). Quantifies patterns of biodiversity and discusses the ecological implications of biodiversity loss at the level of the community, ecosystem and landscape. Community ecology focus on biotic interactions such as competition, trophic interactions, bottom-up and top-down control and stability of food webs. Biodiversity impacts on interactions between organisms and the abiotic environment. Landscape level focus on effects of changes in biodiversity on structure and dynamics of natural and cultural landscapes.

EEB 616 THE CARBON DILEMMA (3-0-3)(F/S). Explores tradeoffs between different ecosystem functions and services provided by carbon. Several (interlinked) scientific questions important for resolving or managing carbon are discussed and novel research questions are identified.

EEB 617 ECOSYSTEM ECOLOGY (3-0-3)(F/S). Influence of biological, ecological and physical processes on energy and elemental cycling (C, N, P). Consideration of roles of microorganisms, plants and animals and whole ecosystems. Factors regulating the ecosystem function, including soils, climate, disturbance, and human activities, are considered from the molecular to the global scale.

EEB 618 EARTH'S BIOGEOCHEMICAL CYCLES AND CLIMATE CHANGE (3-0-3)(F/S). Examines the underlying natural science of global change. Presents and evaluates major processes affecting C, N, and P cycles at ecosystem levels with biogeochemical ecosystem models. At the global scale level, the C, N, and P cycles are examined across the Earth's compartments. Emphasizes how these cycles are linked and how regulation among cycles takes place. Functioning of natural cycles and the anthropogenic effects on these cycles are assessed.

EEB 619 MODELING SOCIAL BEHAVIOR (3-0-3)(F/S). A survey of modeling approaches used to analyze social behavior from an evolutionary/ecological perspective. Focus on analytical, agent-based, and statistical modeling.

Theories of selection, neutrality, drift, recombination, mutation, and isolation and statistical tests and experimental methods for detecting these forces.

EEB 621 ADVANCED ECOLOGICAL DATA ANALYSIS (3-0-3)(F/S). Utilizes existing datasets. Provides ‘hands-on’ training in data analysis with goal of publishable article. Focuses on data issues, selection of appropriate models and problems of interpretation. Topics vary by participants, but may include mixed models, non-linear modeling, scripting, and manipulating data.

ZOO—Zoology

ZOO 301G COMPARATIVE VERTEBRATE ANATOMY (2-6-4)(F). The evolutionary development of vertebrate anatomy, fishes through mammals. Dissection of the shark, salamander, and cat plus demonstrations of other vertebrate types. PREREQ: BIOL 191-192 or PERM/INST.

ZOO 305G ENTOMOLOGY (3-3-4)(F). The general anatomy, physiology, and developmental biology of insects, and ecological and evolutionary relationships and interactions of insects with humans. Field trips to collect and identify local species. PREREQ: BIOL 191-192 or PERM/INST.

ZOO 341G ORNITHOLOGY (2-3-3)(Odd years). Birds as examples of biological principles: classification, identification, ecology, behavior, life histories, distribution, and adaptations of birds. Two weekend field trips. PREREQ: BIOL 191-192 and ZOOL 301.

ZOO 350 VERTEBRATE HISTOLOGY (2-6-4)(Odd years). Microscopic anatomy of cells, tissues, and organ systems of vertebrates. Major emphasis will be on mammalian systems. PREREQ: BIOL 320 or ZOOL 301.

ZOO 501 HUMAN PHYSIOLOGY (3-3-4)(S). Functional aspects of human tissues and organ systems with emphasis on regulatory and homeostatic mechanisms. PREREQ: BIOL 320 or PERM/INST.

ZOO 503 (KINES 503) HEAD AND NECK ANATOMY (2-2-3)(ES). Use of human cadavers to study prosections of head and neck with emphasis on clinical relevance. Integument, osteology, myology, circulatory systems, lymphatics, oral and dental tissues, neuroanatomy, cranial nerves, general innervation, and salivary glands. May be taken for KINES or ZOOL credit but not both. PREREQ: BIOL 191-192 or BIOL 227-228 or PERM/INST.

ZOO 509 GENERAL AND COMPARATIVE PHYSIOLOGY (3-3-4)(S). Physiological principles common to all forms of animal life are discussed. Physiological adaptations required to live in a variety of environments are presented. PREREQ: Graduate standing or PERM/INST.

ZOO 521 MAMMALOGY (2-3-3)(Even years). The biology of mammals: ecology, life histories, reproduction, classification, identification, distribution, and adaptations. One weekend field trip. PREREQ: Graduate standing or PERM/INST.

ZOO 525 AQUATIC ENTOMOLOGY (3-3-4)(Even years). The taxonomy and ecology of the insects most commonly encountered in freshwater environments. Emphasis on identification and biology of individual taxa, aquatic insect community ecology, environmental pollution assessment, and natural resource management. PREREQ: Graduate standing or PERM/INST.

ZOO 534 ANIMAL BEHAVIOR (3-3-4)(Even years). This course focuses on the concepts and processes of animal behavior, with particular emphasis on proximate perspectives. The history of the study of animal behavior, behavioral genetics, the nervous system and behavior, hormones and behavior, ontogeny of behavior, learning and motivation, and other aspects of behavior such as migration, orientation, and navigation will be presented. PREREQ: Graduate standing or PERM/INST.

ZOO 615 AVIAN PHYSIOLOGY (3-0-3)(Odd years). The physiology of flight, cardiovascular, pulmonary, digestive, water and electrolyte, egg, and reproductive physiology are covered. Correlations between unique aspects of avian structure and function are emphasized. PREREQ: Graduate standing or PERM/INST.

ZOO 635 BEHAVIORAL ENDOCRINOLOGY (3-0-3)(Even years). An examination of the endocrine system and the hormonal mechanisms associated with social behavior and aggression, reproductive and parental behavior, biological rhythms, etc. Each student is expected to investigate and lead a discussion on an assigned topic. PREREQ: Graduate Standing or PERM/INST.
Biomolecular Sciences Programs

College of Arts and Sciences

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biomolecularphd@boisestate.edu (email)

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- Master of Science in Biomolecular Sciences

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- Biological Sciences
- Chemistry and Biochemistry
- Physics

DOCTOR OF PHILOSOPHY IN BIOMOLECULAR SCIENCES

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(208) 426-2844 (phone)
(208) 392-1430 (fax)
biomolecularphd@boisestate.edu (email)

General Information
The interdisciplinary program leading to the degree of Doctor of Philosophy (PhD) in Biomolecular Sciences is delivered by faculty members drawn from the Departments of Biological Sciences, Chemistry and Biochemistry, and Physics. This degree requires completion of a prescribed course of study, satisfactory performance on preliminary and comprehensive examinations, and completion of a dissertation representing an original and significant research contribution in the biomolecular sciences. Each student works under the guidance of a supervisory committee chaired by the student’s major advisor.

Application Deadlines
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- January 10 (fall)
- September 15 (spring)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree or graduate degree in an appropriate scientific discipline from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. A brief personal statement (no more than 1750 words) describing the applicant’s academic and professional background, career goals, and faculty members that you are most interested in working with.
3. Official Graduate Record Examinations (GRE) General Test scores
4. A résumé listing educational training, awards, publications, poster presentations, grants, etc.
5. A scientific writing sample.
6. Three letters of recommendation from academic or professional references.
7. Competitive applicants should have undergraduate course work that includes cell biology, biochemistry, calculus, and general physics.

Degree Requirements

<table>
<thead>
<tr>
<th>Doctor of Philosophy in Biomolecular Sciences</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Sequence</strong></td>
<td></td>
</tr>
<tr>
<td>BMOL 601 Biomolecules I</td>
<td>4</td>
</tr>
<tr>
<td>BMOL 602 Biomolecules II</td>
<td>4</td>
</tr>
<tr>
<td>BMOL 603 Biophysical Instrumentation and Techniques</td>
<td>4</td>
</tr>
<tr>
<td><strong>Additional Required Courses</strong></td>
<td></td>
</tr>
<tr>
<td>BMOL 511 (BIOL 511) Advanced Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BMOL 516 Responsible Conduct in Research</td>
<td>1</td>
</tr>
<tr>
<td>BMOL 598* Graduate Seminar</td>
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</tr>
<tr>
<td>BMOL 605* Current Scientific Literature</td>
<td>2</td>
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<tr>
<td>BMOL 606 Proposal Writing</td>
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<tr>
<td>BMOL 607 Graduate Research Presentation</td>
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<tr>
<td>PHYS 504 Molecular and Cellular Biophysics</td>
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<td>Approved Electives</td>
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<td><strong>Examinations</strong></td>
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<tr>
<td>BMOL 687 Doctoral Preliminary Examination</td>
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<td>BMOL 691 Doctoral Comprehensive Examination</td>
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<td>Culminating Activity</td>
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<tr>
<td>BMOL 693 Dissertation</td>
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<tr>
<td>Total</td>
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</table>

*BMOL 598 and BMOL 605 are one-credit courses that can be applied to meet degree requirements. No more than two credits of BMOL 605 and four credits of BMOL 598 can be applied towards degree requirements.
MASTER OF SCIENCE IN BIOMOLECULAR SCIENCES

Program Director: Denise Wingett
Program Administrator: Beth Gee
Science Building, Room 105A
(208) 426-2844 (phone)
(208) 392-1430 (fax)
biomolecularphd@boisestate.edu (email)

General Information

The interdisciplinary program leading to the degree of Masters of Science (MS) in Biomolecular Sciences is delivered by faculty members drawn from the Departments of Biological Sciences, Chemistry and Biochemistry, and Physics. This degree requires completion of a prescribed course of study, and completion of an approved culminating activity in biomolecular sciences. Each student works under the guidance of a supervisory committee chaired by the student’s major advisor.

Application Deadlines

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- January 10 (fall)
- September 15 (spring)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree in an appropriate scientific discipline from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. A brief personal statement (no more than 1750 words) describing the applicant’s academic and professional background, career goals, and faculty members that you are most interested in working with.
3. Official Graduate Record Examinations (GRE) General Test scores.
4. A résumé listing educational training, awards, publications, poster presentations, grants, etc.
5. A scientific writing sample.
6. Three letters of recommendation from academic or professional references.
7. Competitive applicants should have undergraduate course work that includes cell biology, biochemistry, calculus, and general physics.

Degree Requirements

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</tr>
<tr>
<td><strong>Culminating Activity</strong></td>
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<td>Additional graduate courses and a culminating activity chosen from one of the following options:</td>
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<tr>
<td>Project</td>
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<tr>
<td>BMOL 591 Project (7 cr)</td>
<td></td>
</tr>
<tr>
<td>Thesis</td>
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<tr>
<td>BMOL 593 Thesis (7 cr)</td>
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<tr>
<td>Comprehensive Examination (PhD Track Only)</td>
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<tr>
<td>BMOL 606 Proposal Writing (2 cr)</td>
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<tr>
<td>BMOL 607 Graduate Research Presentation (1 cr)</td>
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<tr>
<td>BMOL 687 Doctoral Preliminary Examination (1 cr)</td>
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<td>BMOL 691 Doctoral Comprehensive Examination (1 cr)</td>
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<tr>
<td>Approved electives (2 cr)</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

Course Offerings

BMOL—Biomolecular Sciences

**BMOL 511 (BIOL 511) ADVANCED CELL BIOLOGY (3-0-3)(S).**
Contemporary and frontier topics in the biology of microbial, plant, and animal cells covering signal transduction, protein trafficking, membrane structure and transport, cell to cell communication, cellular compartmentalization, and cell biotechnology applications. May be taken for BIOL or BMOL credit, but not both. PREREQ: BIOL 320 or PERM/INST.

**BMOL 514 (BIOL 514) FLOW CYTOMETRY RESEARCH TECHNIQUES (0-3-1)(F/S/SU).** Provides a basic understanding of flow cytometry principles and applications in research and clinical setting. Students gain 'hands-on' experience including staining and separating blood cells, staining of DNA for cell cycle analysis, and purification of rare cell types using a cell sorter. Students apply flow cytometry to a specific research topic. May be taken for BIOL or BMOL credit, but not both. PREREQ: BIOL 320 or equivalent.

**BMOL 516 RESPONSIBLE CONDUCT IN RESEARCH (1-0-1)(F).** Basic concepts, principles and practices governing research compliance and Responsible Conduct for Research (RCR) in the biomolecular and biomedical areas. The course will utilize on-line Collaborative Institutional Training Initiative (CITI) training modules and group discussions of case studies or lectures presented by professionals in the field. PREREQ: Graduate standing,
BMOL 555 APPLIED CALCULUS FOR BIOMOLECULAR SCIENCES (1-0-1)(S). Review and practice of calculus methods and techniques relevant to qualitative and quantitative descriptions of complex phenomena in the biomolecular sciences. PREREQ: MATH 170; and PHYS 112 or PHYS 212.

BMOL 601 BIOMOLECULES I (4-0-4)(F). An in-depth study of the metabolism of both DNA and RNA at the molecular/mechanistic level. This course will cover the mechanisms of DNA replication, transcription, translation, transposition and repair, as well as those for RNA interference, catalysis, silencing and splicing. Molecular genetics and bioinformatics approaches for studying DNA/RNA and their interactions with proteins will be discussed. PREREQ: BIOL 320; CHEM 431 or CHEM 350 and PHYS 307; MATH 170, PHYS 112.

BMOL 602 BIOMOLECULES II (4-0-4)(S). An in-depth study of proteins focusing on amino acid chemistry, protein structure, protein folding, protein function, membrane biochemistry as well as small molecules, lipids and carbohydrates. This course will discuss modern methods of protein characterization and the use of bioinformatics in understanding the chemistry/function of proteins. Recent developments in proteomics and high-throughput approaches to identifying and assessing protein function will be presented. PREREQ: BIOL 320; CHEM 431 or CHEM 350 and PHYS 307; MATH 170, PHYS 112; or BMOL 601 or BMOL 603.

BMOL 603 BIOPHYSICAL INSTRUMENTATION AND TECHNIQUES (3-3-4)(F/S). Applications and principles of key physical methods and instruments used for the characterization of the structural, functional, and dynamical properties of biological molecules and their interactions. Methods include single-molecule detection and manipulation; mass spectroscopy; X-ray, electron, and neutron diffraction; spectroscopy (optical, IR, UV, Raman); magnetic resonance (NMR, EPR, MRI); plasmon resonance; birefringence; electrophoresis; and hydrodynamic techniques. PREREQ: BIOL 320; CHEM 431 or CHEM 350 and PHYS 307; MATH 170, PHYS 112; or BMOL 601 or BMOL 602.

BMOL 605 CURRENT SCIENTIFIC LITERATURE (1-0-1)(F). Written and oral presentation of current topics from the published literature in areas of biomolecular sciences aimed at integrating material from the various related disciplines. Course will be multidisciplinary involving in depth discussion and critical analysis of current literature by the students. PREREQ: Admitted to program.

BMOL 606 PROPOSAL WRITING (0-2-2)(F/S). Written and oral presentation of a research proposal in an area of biomolecular sciences related to the student’s proposed dissertation research project. PREREQ: Admitted to program and BMOL 601.


BMOL 613 (BIOL 613) MOLECULAR GENETICS (3-0-3)(F/S). An advanced study of genetics in microbial, animal and plant systems, focused on the biochemical and molecular aspects of genetic structure and function. Information obtained from recent genomic analysis and comparisons will be included as well as discussion of contemporary molecular biology techniques and applications and an introduction to genomics. May be taken for BIOL or BMOL credit, but not both. PREREQ: BIOL 310 or equivalent.

BMOL 615 RESEARCH IN THE BIOMOLECULAR SCIENCES (0-3-1)(F). Research conducted by graduate students under the supervision of faculty in Biomolecular Sciences. Students rotate through different research laboratories during the semester to learn new research techniques, review relevant scientific literature, experience different mentoring styles and laboratory environments, and contribute to a research team's generation of hypotheses and data interpretation. PREREQ: PERM/INST.
Master of Business Administration Programs

College of Business and Economics

Graduate Studies Director: Zeynep Hansen
Micron Business and Economics Building, Room 3136
(208) 426-3116 (phone)
graduatebusiness@boisestate.edu (email)
https://cobe.boisestate.edu/graduate-programs-overview/ (website)

General Information

The College of Business and Economics offers four separate routes to a Master of Business Administration (MBA) degree.

- The Career Track MBA is for individuals who have recently graduated with a non-business major who have little or no work experience.
- The Professional MBA is for individuals with at least two years of managerial work experience who wish to complete an MBA program at night while continuing to work full-time.
- The Online MBA is for early to mid-career individuals with at least two years of managerial work experience who wish to complete an MBA program completely online. Students may choose to take a full-time or part-time course load.
- The Executive MBA program is for mid-career individuals or entrepreneurs who wish to complete an MBA program with similarly-experienced individuals while continuing to work full-time.

MASTER OF BUSINESS ADMINISTRATION FULL TIME PROGRAM (CAREER TRACK)

Graduate Studies Director: Zeynep Hansen
Program Administrator: Trisha Stevens Lamb
Micron Business and Economics Building, Room 4104
(208) 426-1120 (phone)
graduatebusiness@boisestate.edu (email)
https://cobe.boisestate.edu/careerstartmba/ (website)

General Information

The Career Track MBA is a full-time, cohort-based program designed for high-potential individuals with limited work experience or career changers looking to go to school full-time. The unique design provides graduates with tools to get their career going and to move up more quickly in an organization.

First year courses provide a foundation in business as students learn about marketing, finance, accounting, operations, etc. Classroom material is reinforced through interactions and applications with operating businesses to prepare the student for a full-time summer internship. Students earn course credit and gain valuable work experience during their summer internship.

Second year courses emphasize a hands-on approach as students gain experience by developing new products for operating businesses or working on their own ideas. Individuals have the opportunity to learn the process of commercialization and to immerse in areas of particular interest, such as marketing, finance, operations, etc.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Personal essays.
3. Official Graduate Management Admission Test (GMAT) or Graduate Record Examinations (GRE) General Test scores
4. A current detailed résumé highlighting your professional work and/or volunteer experience.
5. Two letters of recommendation.
6. A personal interview.
7. Successful applicants to typically bring at least a 3.30/4.00 GPA on their last 30 college credits and a GMAT score of 550 or better. We also accept GRE scores with minimum target scores of 155 in both the verbal and math categories. A higher GPA can offset a lower test score and vice versa. Contact the program administrator for details.
8. English proficiency is required. International applicants must score 587/240/95 or better on the TOEFL exam or 6.5 on the IELTS exam.
9. No work experience is required for this program.

Degree Requirements

Career Track MBA students complete 51 semester credit-hours over two academic years. Courses are offered during the day. The program emphasizes teamwork, business skills, project management, and real world experience. Three-credit summer internships are required.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MBA 501 Accounting for Managers</td>
<td>3</td>
</tr>
<tr>
<td>MBA 502 Fundamentals of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MBA 503 Managing Successful Projects</td>
<td>3</td>
</tr>
<tr>
<td>MBA 507 Statistical Thinking and Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MBA 508 Corporate Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 509 Data Management and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MBA 510 Operations and Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 512 Management and Oral Communications</td>
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</tr>
<tr>
<td>MBA 590 Practicum/Internship</td>
<td>3</td>
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<tr>
<td>Year 2—Business Applications</td>
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<tr>
<td>MBA 505 Strategy for Competitive Advantage</td>
<td>3</td>
</tr>
<tr>
<td>MBA 506 Discipline Integration: Live Cases</td>
<td>3</td>
</tr>
<tr>
<td>MBA 511 Business Law and Social Responsibility</td>
<td>3</td>
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<tr>
<td>MBA 514 Innovation Driven Advantage</td>
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<tr>
<td>MBA 522 Managing Human Resources</td>
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<td>MBA 526 Business Economics</td>
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<td>MBA 527 Applied Capstone Start</td>
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<td>MBA 528 Applied Capstone Project</td>
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Students will need to meet with Program Coordinator to coordinate summer internship.
MAJOR OF BUSINESS ADMINISTRATION
PROFESSIONAL PROGRAM (WORKING PROFESSIONALS)

Graduate Studies Director: Zeynep Hansen
Program Administrator: Brian O’Morrow
Micron Business and Economics Building, Room 4105
(208) 426-3116 (phone)
graduatebusiness@boisestate.edu (email)
https://cobe.boisestate.edu/parttimemba/ (website)

General Information
The Professional MBA is a part-time, cohort-based program designed for high-potential individuals with at least two years of professional management experience. The program is designed for early to mid-career individuals who wish to create career options or move up more quickly in an organization while continuing to work full-time.

Students learn and experience the process organizations use to commercialize ideas. Courses are coordinated with the commercialization process throughout the three academic years. First-year student teams develop at least two potential business ideas to work on during their program of study. First-year coursework gives a foundation in methods to evaluate the commercial viability of that intellectual property. Second-year courses focus on feasibility and planning for the chosen opportunity and the final year provides the opportunity to integrate all aspects into a business plan and to seek startup funds. The pace is reasonable for those working full-time but aggressive enough to keep you busy. Summer breaks provide a chance to rejuvenate.

Courses are offered only at night. They provide a foundation in all aspects of business including marketing, finance, accounting, supply chain, operations, etc. Classroom material is reinforced through interactions and applications with operating businesses designed to prepare the student for a career in management.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all college credits.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. At least a 3.00 (based on a 4-point scale) GPA on their last 60 college credits.
3. Official Graduate Management Admission Test (GMAT) score of 500 or better. We also accept GRE scores with minimum target scores of 147 verbal and 148 quantitative. A higher GPA can offset a lower test score and vice versa. No GMAT/GRE required for application with 3 years professional work experience and a 3.00 in the last 60 credits. Contact the program administrator for details.

4. Personal essays.
5. A personal interview.
6. A current detailed résumé highlighting your professional work and/or volunteer experience.
7. Two letters of recommendation from references who have been your direct supervisor in a professional/volunteer setting or from your professor(s) in an academic setting.
8. Successful applicants have at least two years of significant work experience. Applicants are evaluated based on motivation level, prior academic performance, GMAT or GRE test scores, managerial potential, reference letters, essays, and a personal interview. Details can be found on the MBA for Professional MBA website.
9. English proficiency is required. International applicants must score 587/240/95 or better on the TOEFL exam or 6.5 on the IELTS exam.
10. Applicants admitted to the Professional MBA program are required to pass four Business Foundations Modules prior to beginning courses. These self-paced tutorials prepare graduate students with skills in Statistics, Excel, Accounting, and Economics.

Degree Requirements
Students enrolled in the Professional MBA program complete 48 semester credit-hours over three academic years (32-months). Courses are offered only at night and cohorts start each fall semester.

<table>
<thead>
<tr>
<th>Master of Business Administration Professional Program</th>
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<tbody>
<tr>
<td>Year 1—Opportunity Assessment</td>
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<tr>
<td>MBA 531 Strategic Perspectives</td>
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<tr>
<td>MBA 532 Organizational Issues and Leadership</td>
<td>3</td>
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<tr>
<td>MBA 533 Communication Skills for Managers</td>
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<td>MBA 541 Managerial Accounting</td>
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<tr>
<td>MBA 544 Global Economics: Policy and Trade</td>
<td>3</td>
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<td>MBA 548 Opportunity Assessment</td>
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<td>MBA 549 Successful Project Management</td>
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<td>Year 2—Feasibility and Planning</td>
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<td>MBA 540 Marketing Strategy</td>
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<td>MBA 543 Managing Corporate Finance</td>
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<td>MBA 556 Feasibility and Planning I</td>
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<tr>
<td>MBA 557 Managing Human Resources</td>
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<td>MBA 559 Issues in Supply Chain Management</td>
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<td>MBA 560 Feasibility and Planning II</td>
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<td>MBA 562 Business Modeling</td>
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<td>Year 3—Business Plan Development</td>
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<td>MBA 546 Strategic Management</td>
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<td>MBA 558 Managers &amp; the Legal Environment of Business</td>
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<td>MBA 567 Business Plan Development</td>
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<td>MBA 569 Information Technology and Process Management</td>
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<td>MBA 570 Business Plan Capstone</td>
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</tbody>
</table>
MASTER OF BUSINESS ADMINISTRATION PROFESSIONAL PROGRAM (WORKING PROFESSIONALS) CONCURRENT WITH UNIVERSITY OF IDAHO JURIS DOCTORATE

Graduate Studies Director: Zeynep Hansen
Program Administrator: Brian O’Morrow
Micron Business and Economics Building, Room 4105
(208) 426-3116 (phone)
graduatebusiness@boisestate.edu (email)
https://cobe.boisestate.edu/parttimemba/ (website)

General Information

Students may elect to concurrently pursue a Boise State MBA degree while also matriculating towards a Juris Doctorate degree from the University of Idaho’s School of Law. Admission to the concurrent program requires admission to each of the two individual programs under their respective criteria. Interested students are encouraged to contact our program administrator for details since careful planning is required if one is to earn both degrees in only four academic years.

Concurrent students become part of a cohort of students in our Professional MBA program, taking classes with others who are exclusively pursuing an MBA degree.

Students learn and experience the process organizations use to commercialize ideas. Courses are coordinated with the commercialization process throughout the program and provide a foundation in all aspects of business including marketing, finance, accounting, supply chain, operations, etc. Classroom material is reinforced through interactions and applications with operating businesses designed to prepare the student for a career in management.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. At least a 3.00 (based on a 4-point scale) GPA on their last 60 college credits.
3. Applicants must first be admitted to the University of Idaho College of Law based on separate admission criteria. No GMAT/GRE is required for JD/MBA applicants at Boise State.
4. Personal essays.
5. A personal interview.
6. A current detailed résumé highlighting your professional work and/or volunteer experience.
7. Two letters of recommendation from references who have been your direct supervisor in a professional/volunteer setting or from your professor(s) in an academic setting.
8. Applicants are evaluated based on motivation level, prior academic performance, managerial potential, reference letters, essays, and a personal interview. Details can be found on the MBA for Professional MBA website.
9. English proficiency is required. International applicants must score 587/240/95 or better on the TOEFL exam or 6.5 on the IELTS exam.
10. Applicants must demonstrate proficiency in math, Microsoft Excel, statistics, economics, and financial accounting prior to enrolling in courses.

Self-paced study materials and proficiency exams are available online.

Degree Requirements

Students enrolled in the JD/MBA Program complete 47 semester credit-hours over four academic years (44 months). Students complete law classes only during their first year and then begin the three year Professional MBA curriculum during the second year of law school. All MBA classes are at night, allowing time for law school.

<table>
<thead>
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<td>MBA 532 Organizational Issues and Leadership</td>
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<td>MBA 533 Communication Skills for Managers</td>
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<td>MBA 540 Marketing Strategy</td>
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<td>MBA 541 Managerial Accounting</td>
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<td>MBA 543 Managing Corporate Finance</td>
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<td>MBA 544 Global Economics: Policy and Trade</td>
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<td>MBA 546 Strategic Management</td>
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<td>MBA 557 Managing Human Resources</td>
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<td>MBA 567 Business Plan Development</td>
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<td>Approved Directed Electives from UI School of Law</td>
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<td>Approved MBA Electives</td>
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<tr>
<td>MBA 549 Successful Project Management</td>
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<td>MBA 559 Issues in Supply Chain Management</td>
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<td>MBA 562 Business Modeling</td>
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<tr>
<td>MBA 569 Information Technology &amp; Process Management</td>
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</tbody>
</table>

Total 47-53
MASTER OF BUSINESS ADMINISTRATION
ONLINE
Graduate Studies Director: Zeynep Hansen
Program Administrator: Brian O’Morrow
(855) 290-3840 (phone)
onlinemba@boisestate.edu (email)
https://cobe.boisestate.edu/onlinemba/ (website)

General Information
The Online MBA is designed for high-potential individuals who desire to complete their degree entirely online. The program is particularly well-suited for early to mid-career individuals who wish to create career options or move up more quickly in an organization while continuing to work full-time.

This program focuses on general management. Students gain a foundation in all aspects of business including marketing, finance, accounting, supply chain, operations, etc. Team projects in four of the twelve courses require students to work in a distributed work group—a common scenario today. Eight of the twelve courses require students to apply concepts to a current issue from their workplace.

Students have the flexibility to finish in as few as 12 months or to pace their progress as desired. The program supports six start dates in each calendar year so students can begin the program at any time. All students must enroll in BUSMBA 500 and BUSMBA 501 during their first semester and BUSMBA 555 during their last semester but can take any of the other ten courses in any order.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. At least a 3.00 (based on a 4-point scale) GPA on their last 60 college credits.
3. Official Graduate Management Admission Test (GMAT) score of 500 or better. We also accept GRE scores with minimum target scores of 145 in both the verbal and math categories. A higher GPA can offset a lower test score and vice versa. No GMAT/GRE required for application with 3 years professional work experience and a 3.00 in the last 60 credits.
4. Personal essays.
5. A current detailed résumé highlighting your professional work and/or volunteer experience.
6. English proficiency is required. International applicants must score 587/240/95 or better on the TOEFL exam or 6.5 on the IELTS exam.
7. Two letters of recommendation. One letter should be from a direct supervisor in a professional setting. For the second recommendation, you may select a different supervisor, a professional colleague, or a previous professor in an academic setting.
8. Successful applicants have at least two years of managerial work experience. Applicants are evaluated based on motivation level, prior academic performance, GMAT or GRE test scores, managerial potential, reference letters, and essays. Details can be found on the Online MBA website.

Degree Requirements
Students enrolled in the Online MBA program complete 49 semester credit-hours. Courses are offered in six, eight-week sessions during the calendar year. Students may start at any time during the year.

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Executive Master of Business Administration

Graduate Studies Director: Zeynep Hansen
Program Information: David Knipping
Micron Business and Economics Building, Room 4103
(208) 426-4034 (phone)
emba@boisestate.edu (email)
https://cobe.boisestate.edu/emba/ (website)

General Information

The Executive MBA program is designed for mid-career individuals aspiring to senior management positions who wish to complete an MBA degree while continuing to work full-time.

The curriculum helps prepare individuals for senior positions by providing a solid grounding in business processes, extensive work on interpersonal skills, and exposure to creative processes and innovative problem-solving methods. Individual coaches provide one-on-one development of leadership and communication skills. Courses are integrated to better reflect the interconnected world of business and were developed with the assistance of many local organizations.

The program lasts two academic years (21 months) including a summer break. Courses meet once per month, typically for three or four consecutive days. Two week-long residencies, one of which is international, are included. Classroom material is reinforced through interactions with many guest speakers and business leaders. The pace is reasonable for those working full time.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A current résumé (or description of management career as part of application form).
3. A letter of support from the applicant’s direct supervisor.
4. Three letters of recommendation. Recommenders must have worked with applicant within the past three years.
5. Successful applicants to the Executive MBA program have at least twelve years of professional work experience, six years of managerial work experience, and a work history of increasing responsibility.

Degree Requirements

Students enrolled in the Executive MBA program begin in the fall and complete 40 semester credit-hours over two academic years (21-months). The program is designed to help create flexible, innovative leaders.
Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree. A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A current detailed résumé highlighting professional work and/or volunteer experience.
3. A letter of sponsorship from the applicant’s current organization.
4. A personal interview.
5. Successful applicants to the EMBOE program typically bring at least five years of operations experience and a work history of increasing responsibility.

Degree Requirements

Students enrolled in the EMBOE program complete 30 semester credit-hours over a 12 month period.

<table>
<thead>
<tr>
<th>Executive Master of Business Operational Excellence</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MBOE 501 DNA of Excellence</td>
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<td>MBOE 502 Statistical Thinking</td>
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<td>MBOE 511 Financial Measurement</td>
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<td>MBOE 512 Design and Structure of Processes, Products, and Services</td>
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<td>MBOE 521 Improvement Tools and Skills</td>
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<tr>
<td>MBOE 522 Critical Components of Change Management</td>
<td>3</td>
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<tr>
<td>MBOE 531 Study Mission and Diagnostic Practice</td>
<td>6</td>
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<tr>
<td>MBOE 541 Understanding and Managing the Entire Value Stream</td>
<td>3</td>
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<tr>
<td>MBOE 692 Capstone: Change Management as a Strategic Initiative</td>
<td>3</td>
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<td>Total</td>
<td>30</td>
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</table>

Course Offerings

BUSCOM—Business Communication

BUSCOM 538 MANAGING TECHNICAL COMMUNICATION (3-0-3)(F/S). An advanced study of technical communication for managers and technical professionals who must originate, specify, and/or approve technical instructions, proposals, reports, and related documents. Students will acquire proficiency in writing and designing these documents by applying syntactic, semantic, and pragmatic theory and visual design principles to applied problems in document design, information access, and human information processing.

BUSMBA—Master of Business Administration Online

BUSMBA 500 INTRODUCTION AND BUSINESS FOUNDATIONS (0-0-1)(F/S/SU). Provides self-paced initial foundation or refresher in basic financial accounting, micro-economics, statistics, and spreadsheets. Also includes an introduction to the online learning environment, the learning management system used by the students, and Boise State University academic policies and resources. (Pass/Full) PREREQ: ADM/PROG. COREQ: BUSMBA 501.

BUSMBA 501 DESIGN THINKING AND STRATEGIC MANAGEMENT (4-0-4)(F/S/SU). Examines collaborative innovation processes that are transforming business and driving industry life cycles. Includes a first exposure to the creation of functional, business-level, and corporate-level strategies. Special consideration of organizational design, diversification, mergers and acquisitions, and measures of strategic performance including use of Balanced Scorecards. Interpersonal skills enhanced via online collaboration with classmates. PREREQ: ADM/PROG. COREQ: BUSMBA 501.

BUSMBA 505 MARKETING STRATEGY (4-0-4)(F/S/SU). Focuses on revenue-generating opportunities with special emphasis on evaluating opportunities for new products or services. Includes segment analysis, customer choice behavior, branding, marketing tactics, personal selling, and the evaluation of market opportunities. Includes opportunity assessment project in industry sector of student’s choosing. PRE/Coreq: BUSMBA 501.

BUSMBA 510 PEOPLE AND ORGANIZATIONS (4-0-4)(F/S/SU). Emphasizes integrated manager-employee relations in an organization. Includes HR planning, employee recruitment, selection, performance appraisal, discipline, coaching, compensation, and termination issues. Also focuses on collaboration, group dynamics, motivation, leadership, problem-solving, negotiation, and self-management. Interpersonal skills enhanced via online collaboration with classmates. PRE/Coreq: BUSMBA 501.

BUSMBA 515 CORPORATE FINANCE (4-0-4)(F/S/SU). Examines the three major decisions in corporate finance affecting value of the firm: investment, financing and cash distribution. Includes the methods used to measure corporate value and evaluate financial performance. Issues in each of the three decision areas are examined within the context of their impact on the valuation model and financial performance metrics. Includes financial modeling project in industry sector of student’s choosing. PRE/Coreq: BUSMBA 501.

BUSMBA 520 GLOBAL ECONOMICS: POLICY AND TRADE (4-0-4)(F/S/SU). Reviews how economies work, the differences between economic systems, factors that influence international trade, exchange rates, labor economics, and government policies related to trade. Includes a survey on the economies of the world, current topics in global economics, data sources for international economic trends, and an introduction to major international trade agencies/associations. Includes application project in industry sector of student’s choosing. PRE/Coreq: BUSMBA 501.

BUSMBA 525 MANAGERIAL ACCOUNTING (4-0-4)(F/S/SU). Examines various cost-based accounting concepts and practices. Particular emphasis on the challenges involved in using them to evaluate past performance and plan future deployment of firm resources. Interpersonal skills enhanced via online collaboration with classmates to solve managerial accounting problems. PRE/Coreq: BUSMBA 501.

BUSMBA 530 MANAGERIAL COMMUNICATION (4-0-4)(F/S/SU). A hands-on introduction to written and oral managerial communication including informal exchanges, elevator pitches, meetings, and persuasive formal presentations. Emphasis placed on team-oriented and supervisory communication tactics. Interpersonal skills enhanced via online collaboration with classmates. PRE/Coreq: BUSMBA 501.


BUSMBA 540 MANAGING SUCCESSFUL PROJECTS (4-0-4)(F/S/SU). Introduces and provides experience in the front-end issues of project management such as team formation, communication strategies, conflict management, project constraints, and risk analysis. Includes use of the project management tools: PERT/Critical Path, resource utilization, project monitoring and tracking, and critical chain analysis. Includes application project in industry sector of student’s choosing. PRE/Coreq: BUSMBA 501.

BUSMBA 545 LEGAL ISSUES IN BUSINESS (4-0-4)(F/S/SU). Introduces future managers to the major legal issues involved in the business environment. Covers legal reasoning and the legal system, agency and business associations, torts, contracts, intellectual property, employment law, sales, and product...
BUSMBA 555 BUSINESS PLAN DEVELOPMENT (4-0-4)(F/S/SU).
Integrates previous coursework via development of a business plan in industry sector of the student's choosing. PRE/Coreq: BUSMBA 501, BUSMBA 505, BUSMBA 510, BUSMBA 515, BUSMBA 520, BUSMBA 525, BUSMBA 530, BUSMBA 535, BUSMBA 540, BUSMBA 545, and BUSMBA 550.

EMBA—Executive Master of Business Administration
Courses with the EMBA prefix are available only to students enrolled in the EMBA program, and are offered according to a schedule determined by the start semester of each cohort.

EMBA 511 BUSINESS PERSPECTIVES (V-V-2)(F).
Provides an introduction to how managers can assess business opportunities, create competitive advantage, and foster innovation throughout the life cycle of products and organizations. PREREQ: EMBA Program Admission.

EMBA 512 ASSESSING BUSINESS OPPORTUNITIES (V-V-5)(F).
Provides an integrated foundation in accounting, economics, operations management, marketing, and strategic planning in the context of assessing business opportunities while operating in a global environment. PREREQ: EMBA 511.

EMBA 513 CREATING COMPETITIVE ADVANTAGE I (V-V-3)(S).
Provides an initial integrated foundation in finance, human resource management, marketing, operations management, and strategic planning in the context of creating competitive advantage while operating in a global environment. PREREQ: EMBA 512.

EMBA 514 CREATING COMPETITIVE ADVANTAGE II (V-V-3)(S).
Continues the integrated foundation in finance, human resource management, marketing, operations management, and strategic planning in the context of creating competitive advantage while operating in a global environment. PREREQ: EMBA 513.

EMBA 515 FOSTERING INNOVATION (V-V-4)(S).
Provides a foundation in methods managers can use to foster innovation within organizations. Emphasis is on the early stages of innovation including brainstorming, idea generation, and rough estimations of viability. PREREQ: EMBA 514.

EMBA 516 LEADERSHIP AND TEAMWORK SKILLS (V-V-2)(F).
Examines personal styles in the workplace with emphasis on group dynamics. Also includes a personalized assessment of each participant's leadership strengths and weaknesses followed by the creation of a customized development plan. (Pass/Fail.) PREREQ: EMBA Program Admission.

EMBA 517 ISSUES IN LEADERSHIP I (V-V-1)(S).
Continues execution of the leadership development goals identified in EMBA 516. (Pass/Fail.) PREREQ: EMBA 516.

EMBA 521 BUSINESS IN A GLOBAL ENVIRONMENT (V-V-5)(F).
Builds a foundation in U.S. business law, ethics, corporate governance, and critical thinking. Includes the opportunity to solve business problems with executives from other cultures and learn about their legal and ethical issues. Requires a passport and travel out of the United States for one week. PREREQ: EMBA 515 and EMBA 517.

EMBA 522 RESCUING DISTRESSED BUSINESS UNITS (V-V-2)(F).
Builds skill in creating strategies to return distressed business units to effectiveness. Project based with particular emphasis on finance and bankruptcy law. PREREQ: EMBA 521

EMBA 523 MANAGEMENT OF PRODUCTS AND SERVICES (V-V-2)(F).
Builds broad skill in product management, new product development, branding, qualitative marketing research, pricing, and portfolio analysis. Case-based with particular emphasis on business strategy and marketing issues. PREREQ: EMBA 521.

EMBA 524 PARTNERSHIPS, ACQUISITIONS, AND DIVESTITURES (V-V-2)(S).
Builds skill in examining growth strategies founded upon business partnerships, acquisitions, and divestitures. Project based with particular emphasis on financial considerations, legal aspects, and issues surrounding the blending of company cultures. PREREQ: EMBA 521.

EMBA 525 ISSUES IN LEADERSHIP II (V-V-1)(S).
Continues execution of the leadership development goals identified in EMBA 516. (Pass/Fail.) PREREQ: EMBA 517.

MBA—Master of Business Administration

MBA 501 ACCOUNTING FOR MANAGERS (3-0-3)(F).
An in-depth examination of financial statement use in business decision-making. A user's perspective focuses study on interpreting the output of the accounting system rather than on details of statement preparation. Examines various cost-based accounting concepts and practices. Particular emphasis is directed to the challenges involved in using cost data to evaluate past performance and plan future deployment of firm resources. PREREQ: ADM/PROG.

MBA 502 FUNDAMENTALS OF MARKETING (3-0-3)(S).
Focuses on strategies to generate revenue for the firm. Includes segment analysis, customer choice behavior, branding, marketing tactics, personal selling, and the development of marketing plans. PREREQ: ADM/PROG.

MBA 503 MANAGING SUCCESSFUL PROJECTS (3-0-3)(S).
Introduces the front-end issues of project management including team formation, communication strategies, conflict management, project constraints, risk analysis, and tools for project planning. Hands-on experience with the tools of project management including PERL/Critical Path, resource utilization, project monitoring and tracking, and critical chain analysis. PREREQ: ADM/PROG.

MBA 504 STRATEGY FOR COMPETITIVE ADVANTAGE (3-0-3)(F).
A first exposure to the analyses and processes used to create functional, business-level, and corporate-level strategies. Special consideration of organizational design, diversification, mergers and acquisitions, and measures of strategic performance including use of Balanced Scorecards. PREREQ: ADM/PROG.

MBA 506 DISCIPLINE INTEGRATION: LIVE CASES (3-0-3)(F).
Integrates current course topics via application to operating businesses. PREREQ: ADM/PROG.

MBA 507 STATISTICAL THINKING AND BUSINESS ANALYTICS (3-0-3)(F).
Introduces descriptive business analytics techniques for transforming data into information decision-makers can use including visual techniques and numerical measures tools for presenting statistical data, using probability to measure uncertainty, sampling techniques, statistical inference, and predictive business analytics tools. PREREQ: ADM/PROG.

MBA 508 CORPORATE FINANCIAL MANAGEMENT (3-0-3)(F).
A framework to analyze investment opportunities and identify appropriate financing strategies. Emphasizes the key techniques of corporate financial decision-making, including risk and return, capital budgeting, discounted cash flow valuation, capital structure, and payout policy PREREQ: ADM/PROG.

MBA 509 DATA MANAGEMENT AND ANALYTICS (3-0-3)(S).
Explores the development, use and management of databases in an organization. Provides an overview of the analytics process from business and data understanding through modeling and evaluation. Introduces fundamental data and text modeling techniques that can be incorporated into the analytics process. PREREQ: ADM/PROG.

MBA 510 OPERATIONS AND SUPPLY CHAIN MANAGEMENT (3-0-3)(S).
Explores the flow of products and services from suppliers, within the firm, and to customers. Topics include forming strategic supplier and customer relationships, developing operations excellence through continuous
improvement, lean methodologies, and logistics management. PREREQ: ADM/PROG.

MBA 511 BUSINESS LAW AND SOCIAL RESPONSIBILITY (3-0-3)(S). Introduces legal concepts that are important for business decision-making, including agency and business associations, torts, contracts and sales, product liability, and employment law. Addresses current trends in corporate social responsibility and the triple bottom line of social, environmental, and economic responsibility. PREREQ: ADM/PROG.

MBA 512 MANAGEMENT AND ORAL COMMUNICATION (3-0-3)(F). A hands-on introduction to managerial oral communication including informal exchanges, elevator pitches, meetings, and persuasive formal presentations. Addresses OB concepts such as negotiation, leadership, and team dynamics. PREREQ: ADM/PROG.

MBA 514 INNOVATION DRIVEN ADVANTAGE (3-0-3)(F). Introduces Design Thinking, a hands-on, technique-based training in the process of creating new, market-viable products and services. Special focus on disruptive technologies, reconstructing market boundaries, ethnographic research, and needs-based product positioning strategies. Examines the start-up phase of business, whether an entirely new entity or within an existing organization. Emphasis on opportunity recognition, commercialization, and business plan development. PREREQ: ADM/PROG.

MBA 522 MANAGING HUMAN RESOURCES (3-0-3)(F). Examines best practices for managing the employee life-cycle into, through, and out of organizations from a strategic perspective. Includes employee recruitment, selection, performance appraisal, discipline, coaching, compensation, and termination issues. Addresses OB issues of motivation, diversity, and conflict resolution. PREREQ: ADM/PROG.

MBA 526 BUSINESS ECONOMICS (3-0-3)(S). A structured approach to thinking through trends, cycles, and fluctuations in market prices and quantities, as well as the economic conduct of consumers, suppliers, producers and competitors. Includes consideration of the classical perfectly competitive market and the implications of restricted competition, imperfect information, and externalities on the practical application to production and marketing decisions. Relates government economic and international trade policies to aggregate economic activity such as inflation, unemployment, GDP, exchange rates, and trade balances. Draws managerial implications for demand forecasting, anticipating interest rates, and understanding costs. PREREQ: ADM/PROG.

MBA 527 APPLIED CAPSTONE PROJECT START (3-0-3)(S). Initiates team capstone project for a client organization. Provides hands-on experience in project planning and design PREREQ: ADM/PROG.


MBA 531 STRATEGIC PERSPECTIVES (3-0-3)(F). Examines the major forces transforming business that enable creativity and innovation, and that drive industry life cycle and evaluation. A novel business plan is developed. PREREQ: ADM/PROG or PERM/INST. 

MBA 532 ORGANIZATIONAL ISSUES AND LEADERSHIP (3-0-3)(F). Geared toward managers and the application of concepts to practical experience. Introduces team formation and group dynamics issues and strategies. Includes leadership, understanding people, ethical decision making and reasoning, negotiation and conflict, and change management. PREREQ: ADM/PROG or PERM/INST.

MBA 533 COMMUNICATION SKILLS FOR MANAGERS (1-0-1)(F). A hands-on introduction to managerial communication including persuasive formal presentations, informal exchanges, elevator pitches, and meetings. Emphasis placed on team-oriented communication tactics. PREREQ: ADM/PROG or PERM/INST.

MBA 540 MARKETING STRATEGY (3-0-3)(F). Focuses on revenue-generating opportunities with special emphasis on evaluating opportunities for new products or services. Includes segment analysis, customer choice behavior, branding, marketing tactics, personal selling, and the development of marketing plans. PREREQ: ADM/PROG or PERM/INST.

MBA 541 MANAGERIAL ACCOUNTING (3-0-3)(S). Analyzes the nature of costs and how costs can be used to manage and control the activities of firms. Particular emphasis is placed on the uses of accounting numbers to motivate employees and managers. PREREQ: ADM/PROG or PERM/INST.

MBA 543 MANAGING CORPORATE FINANCE (3-0-3)(S). Examines the three major decisions in Corporate Finance affecting value of the firm: Investment, Financing and Cash Distribution. Includes the methods used to measure corporate value and evaluate financial performance. Issues in each of the three decision areas are examined within the context of their impact on the valuation model and financial performance metrics. PREREQ: ADM/PROG.

MBA 544 GLOBAL ECONOMICS: POLICY AND TRADE (3-0-3)(S). Reviews how economies work, the differences between economic systems, factors that influence international trade, exchange rates, and government policies related to trade. Includes a survey on the economies of the world, current topics in global economics, data sources for international economic trends, and an introduction to major international trade agencies/associations. PREREQ: ADM/PROG or PERM/INST.


MBA 548 OPPORTUNITY ASSESSMENT (1-0-1)(S). Small groups develop a problem statement, value proposition, and initial pre-market estimate of revenue potential for a new commercialization opportunity. PREREQ: ADM/PROG, MBA 532.

MBA 549 SUCCESSFUL PROJECT MANAGEMENT (3-0-3)(SU). Introduces and provides experience in the front-end issues of project management such as team formation, communication strategies, conflict management, project constraints, risk analysis, or tools for project planning. Also explores use of the tools of project management including PERT/Critical Path, resource utilization, project monitoring and tracking, and critical chain analysis. PREREQ: ADM/PROG or PERM/INST.

MBA 556 FEASIBILITY AND PLANNING I (1-0-1)(F). Teams develop a revenue stream plan for their chosen commercialization opportunity. Includes customer segmentation, pricing, and channel issues. PREREQ: ADM/PROG, MBA 548.

MBA 557 MANAGING HUMAN RESOURCES (3-0-3)(S). An applied approach to managing people in organizations. Includes legal constraints, strategic HR planning, recruiting and selecting talent, managing employee performance and rewards, and discipline and organizational exit. PREREQ: ADM/PROG or PERM/INST.

MBA 558 MANAGERS AND THE LEGAL ENVIRONMENT OF BUSINESS (3-0-3)(F). Introduces future managers to the major legal issues involved in the business environment. Covers legal reasoning and the legal system, agency and business associations, torts, contracts, intellectual property, employment law, sales, and product liability. PREREQ: ADM/PROG.

MBA 559 ISSUES IN SUPPLY CHAIN MANAGEMENT (3-0-3)(S). Introduces product and service movement within the firm and between the firm and its partners up and down the supply chain. Focus on logistics management, supplier relationships, and creating operational excellence within the firm. PREREQ: ADM/PROG or PERM/INST.

MBA 560 FEASIBILITY AND PLANNING II (1-0-1)(S). Teams develop a cost structure plan for their chosen commercialization opportunity. Includes staffing, production planning, and supply chain issues. PREREQ: ADM/PROG, MBA 556.

MBA 562 BUSINESS MODELING (3-0-3)(SU). Advanced development and interpretation of optimization models using spreadsheets and computer
simulation tools. Applications integrate finance, operations, and supply chain issues. PREREQ: ADM/PROG, MBA 543, MBA 559 or PERM/INST.

MBA 567 BUSINESS PLAN DEVELOPMENT (4-0-4)(F). Teams develop full business plans for their chosen IP commercialization project. PREREQ: ADM/PROG.

MBA 569 INFORMATION TECHNOLOGY AND PROCESS MANAGEMENT (3-0-3)(S). Examines the need to aligning philosophies and the flow of information and materials needed to meet or exceed customer expectations. Students apply concepts to work projects. PREREQ: ADM/PROG.

MBA 570 BUSINESS PLAN CAPSTONE (1-0-1)(S). Teams present their IP commercialization projects to gain seed funding. PREREQ: ADM/PROG, MBA 567.

MBOE—Master of Business Operational Excellence

Courses with the MBOE prefix are available only to students enrolled in the MBOE program, and are offered according to a schedule determined by the start semester of each cohort.

MBOE 501 DNA OF EXCELLENCE (3-0-3)(S). Examines the need to continuously challenge existing processes and drive them to higher levels of performance. Introduces fundamental tools used for project selection including Hoshin planning, the voice of the customer, and value stream mapping. Includes an introduction to the Toyota Production System (TPS). PREREQ: ADM/PROG.

MBOE 502 STATISTICAL THINKING (3-0-3)(S). Overview of statistics and probability, including quantitative analysis and data collection, with a special emphasis on understanding and eliminating variation. Introduces Six Sigma philosophy and tools. Students apply concepts to work projects. PREREQ: ADM/PROG.

MBOE 511 FINANCIAL MEASUREMENT (3-0-3)(S). Examines the selection and measurement of financial outcomes for lean organizations. A user's perspective emphasizes organizational management and control via financial measurement choices made. Students apply concepts to work projects. PREREQ: ADM/PROG.

MBOE 512 DESIGN AND STRUCTURE OF PROCESSES, PRODUCTS, AND SERVICES (3-0-3)(S). Emphasizes that all work is a process and that flexibility and creativity are critical to achieving optimal work flow within an organization. Introduces various tools to help align process components into a lean organization. Students apply concepts to work projects. PREREQ: ADM/PROG.

MBOE 521 IMPROVEMENT TOOLS AND SKILLS (3-0-3)(SU). Provides the knowledge and diagnostic tools required to identify and understand cause-effect relationships. Lean, Six Sigma, and related concepts are introduced and reinforced with value stream simulations. Connects these concepts with the successful deployment of the Plan-Do-Check-Act cycle. Students apply concepts to work projects. PREREQ: ADM/PROG.

MBOE 522 CRITICAL COMPONENTS OF CHANGE MANAGEMENT (3-0-3)(SU). Explores leadership styles, including the leader's role of change agent, with emphasis on training, coaching, team building and empowerment. Focuses on gaining commitment to change while overcoming complacency and resistance. Covers the successful deployment of standard work, project management, communication, knowledge management, and planning. Students apply concepts to work projects. PREREQ: ADM/PROG.

MBOE 531 STUDY MISSION AND DIAGNOSTIC PRACTICE (6-0-6)(F). Provides on-site opportunity to benchmark world-class organizations. Observation of operational excellence concepts in the field including the role leaders play and the interaction of all stakeholders: customers, suppliers, employees, and owners. Emphasizes the deployment of diagnostic tools in these organizations. Opportunities provided to practice these tools in real-life simulations. Requires a passport and travel outside of the United States. PREREQ: ADM/PROG.

MBOE 541 UNDERSTANDING AND MANAGING THE ENTIRE VALUE STREAM (3-0-3)(S). Reviews efforts to lead internal operational excellence efforts and then expands those concepts to include interactions with external organizations, with special emphasis on suppliers. Emphasis on aligning philosophies and the flow of information and materials needed to meet or exceed customer expectations. Students apply concepts to work projects. PREREQ: ADM/PROG.

MBOE 692 CAPSTONE: CHANGE MANAGEMENT AS A STRATEGIC INITIATIVE (3-0-3)(S). Final integration of the program concepts via completion of a capstone project that aligns an organization's mission, vision, values, policies, processes, procedures and behaviors into a strategic initiative of operational excellence. Focuses on understanding the voice of the customer and the role of all stakeholders in developing a culture of excellence. Includes leveraging creativity, flexibility, and innovation to nurture the growth of people, products, and processes in an environmentally responsible way. PREREQ: ADM/PROG.
Department of Chemistry and Biochemistry

College of Arts and Sciences

Chair: Owen McDougal
Science Building, Room 153-154
(208) 426-3030 (phone)
(208) 426-3027 (fax)
chemistry@boisestate.edu (email)
https://chemistry.boisestate.edu (website)


Graduate Degrees Offered

- Master of Science in Chemistry

Interdisciplinary Participation

- Doctor of Philosophy in Biomolecular Sciences
- Master of Science in Biomolecular Sciences
- Master of Science in Hydrologic Sciences

MASTER OF SCIENCE IN CHEMISTRY

Program Coordinator: Michael Callahan
Science Building, Room 312
(208) 426-1031 (phone)
chemgrad@boisestate.edu (email)

General Information

The Master of Science in Chemistry program provides students with advanced training in modern chemical research methods. The intended audience is students needing further education and research experience prior to seeking a PhD in Chemistry (or another physical science) or for advancement in their current career.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of application describing your background, academic interests, career goals, and how the program will help you to achieve these goals. Include the names of the Boise State faculty members you are most interested in conducting research with.
3. A current résumé or curriculum vitae listing educational training, GPA, awards, research experience, publications, poster presentations, grants, etc.
4. Official Graduate Record Examinations (GRE) General Test scores.
5. TOEFL scores, for a prospective student whose native language is not English. These individuals may be interviewed if applying for a graduate teaching assistantship.
6. Two letters of recommendation from academic faculty or recent employers.

Degree Requirements

The Master of Science in Chemistry degree requires completion of a minimum of 30 credits, including five lecture courses from at least three of the five chemical subdisciplines (analytical, biochemistry, inorganic, organic and physical) as well as 9 credits of thesis work. All courses must be approved for application to the degree requirements by the supervisory committee working within constraints developed by the Chemistry Graduate Committee. When a student has completed 9 credits of course work and one semester of thesis work (typically at the end of their first year), he/she will meet with their supervisory committee for a thesis proposal examination to assess the student’s progress to date and discuss the student’s planned thesis work. At the end of the thesis work, the student will write a thesis based on his/her research and orally defend it to their supervisory committee.

<table>
<thead>
<tr>
<th>Master of Science in Chemistry</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 500 Research Methods in Chemistry &amp; Biochemistry</td>
<td>1</td>
</tr>
<tr>
<td>One course each from three different subdisciplines of Chemistry (CHEM 580-589, CHEM 597 or any dual-listed course cannot be used for the above requirement.)</td>
<td>9</td>
</tr>
<tr>
<td>CHEM 598 Seminar</td>
<td>4</td>
</tr>
<tr>
<td>Electives Course</td>
<td></td>
</tr>
<tr>
<td>Any 500 or 600 level Chemistry or Biochemistry course</td>
<td>3</td>
</tr>
<tr>
<td>Any 500 or 600 level Science, Math or Engineering electives approved by the supervisory committee</td>
<td>3</td>
</tr>
<tr>
<td>Thesis Proposal</td>
<td></td>
</tr>
<tr>
<td>CHEM 688 Thesis Proposal</td>
<td>1</td>
</tr>
<tr>
<td>Culminating Activity</td>
<td></td>
</tr>
<tr>
<td>CHEM 593 Thesis</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>
Course Offerings

BIOCHEM—Biochemistry

BIOCHEM 510 ADVANCED PROTEIN CHEMISTRY (3-0-3)(S) (Alternate years). An in-depth study of proteins that focuses on amino acid chemistry, protein structure, protein folding, and protein function. This course will discuss modern methods of protein characterization and the use of bioinformatics in understanding the chemistry/function of proteins. Given the recent developments in the proteomics, several of the high-throughput approaches to identifying proteins assessing function will also be investigated. Students will make extensive use of primary literature. PREREQ: CHEM 322 and CHEM 432 or PERM/INST.

BIOCHEM 511 NUCLEIC ACID METABOLISM (3-0-3)(S)(Alternate years). An in-depth study of the metabolism of both DNA and RNA at the molecular/mechanistic level. This course will cover the mechanisms DNA replication, transcription, translation, transposition and repair, as well as those for RNA splicing, catalysis, silencing and interference RNA. Bioinformatics approaches and modern techniques for studying DNA/RNA and their interactions with proteins will be discussed. Students will make extensive use of primary literature. PREREQ: CHEM 432 or PERM/INST.

BIOCHEM 512 INTERMEDIARY METABOLISM (3-0-3)(S)(Alternate years). An investigation into several anabolic, catabolic, and signaling processes in the cell. Special attention will be given to molecular mechanisms and regulation. Students will make extensive use of primary literature. PREREQ: CHEM 432 or PERM/INST.

BIOCHEM 513 ADVANCED ENZYMEOLOGY (3-0-3)(S)(Alternate years). A deeper look into the catalytic and kinetic mechanisms of enzymes. Modern methods for studying enzymes will be included as well as learning strategies for studying steady state and transient enzyme kinetics. Students will make extensive use of primary literature. PREREQ: CHEM 322 and CHEM 433 or PERM/INST.

CHEM—Chemistry

CHEM 500 RESEARCH METHODS IN CHEMISTRY AND BIOCHEMISTRY (1-0-1)(F). An introduction to project planning, literature assessment, report writing, and data management. PREREQ: Admission to chemistry graduate program.

CHEM 501 ADVANCED INORGANIC CHEMISTRY (3-0-3)(F). Atomic structure, molecular structure using valence bond and molecular orbital theories, elementary group theory, transition metal coordination chemistry, acids and bases, descriptive transition and nontransition metal chemistry. PREREQ: CHEM 322 or PERM/INST.

CHEM 507 PHYSICAL ORGANIC CHEMISTRY (3-0-3)(S)(Alternate years). Mechanisms of organic chemical reactions, stereochemistry, and conformational analysis. The important types of organic reactions are discussed. Basic principles are emphasized; relatively little attention is paid to the scope and synthetic applications of the reactions. PREREQ: CHEM 309 and CHEM 322 or PERM/INST.

CHEM 508 SYNTHETIC ORGANIC CHEMISTRY (3-0-3)(F)(Alternate years). The scope and limitations of the more important synthetic reactions are discussed within the framework of multistep organic synthesis. PREREQ: CHEM 309 or PERM/INST.

CHEM 509 INTRODUCTION TO POLYMER CHEMISTRY (3-0-3)(F) (Alternate years). An introduction to the concepts of polymer synthesis, characterization, structure, properties, and basic fabrication processes. Emphasis is on practical polymer preparation, on the fundamental kinetics and mechanisms of polymerization, and on structure-property relationship. PREREQ: CHEM 309 or PERM/INST.

CHEM 510 ORGANIC POLYMER SYNTHESIS (3-0-3)(S)(Alternate years). A study of the synthesis and reactions of polymers. Emphasis is on practical polymer preparation and on the fundamental kinetics and mechanisms of polymerization reactions. Topics include relationship of synthesis and structure, characterization of polymer structure, step-growth polymerization, chain-growth polymerization via radical, ionic and coordination intermediates, copolymerization. PREREQ: CHEM 309 or PERM/INST.

CHEM 511 ADVANCED ANALYTICAL CHEMISTRY (3-0-3)(F). Stoichiometry involved in separations and instrumental methods of analysis. The course will be flexible in nature to adapt to the varied background of the students. PREREQ: CHEM 322 or PERM/INST.

CHEM 521 QUANTUM CHEMISTRY (3-0-3)(F)(Alternate years). Formal introduction to quantum mechanics. Dirac notation, angular momentum and operator algebra. Emphasis will be placed on electronic structure theory, reaction mechanisms and the use of modern quantum chemistry theoretical packages. PREREQ: CHEM 322, or PHYS 309 and PHYS 432, or PERM/INST.

CHEM 522 SPECTROSCOPY (3-0-3)(F)(Alternate years). Concepts and practical usage of modern chemical spectroscopic techniques, including electronic absorption, infrared/Raman, X-Ray/EXAFS, magnetic resonance and magnetic circular dichroism. Emphasis will be placed on the application of these techniques to the structure/function characterization of chemical and biochemical systems. PREREQ: CHEM 521 or PERM/INST.

CHEM 523 CHEMICAL KINETICS (3-0-3)(F)(Alternate years). A comprehensive study of the role of quantum chemistry and thermodynamics in chemical reactions. Emphasis will be placed on determining reaction coordinates and transition states. Extensive use will be made of modern computational chemical computer programs for calculating potential energy surfaces and transition states. PREREQ: CHEM 322, or PHYS 309 and PHYS 432, or PERM/INST.


CHEM 551 BIOINORGANIC CHEMISTRY (3-0-3)(S)(Alternate years). Exploration of the vital roles that metals play in biochemical systems. Emphasis is on transition metals in biology. Course will focus on structural, regulatory, catalytic, transport and redox functions of bioinorganic systems. PREREQ: CHEM 322 or PERM/INST.

CHEM 552 ORGANOMETALLIC CHEMISTRY (3-0-3)(S)(Alternate years). An examination of the organometallic chemistry of the main group and transition elements. Topics to include structure and bonding of complexes having pi ligands; transition metal mediated organic synthesis; homogeneous catalysis. PREREQ: CHEM 401 or 501 or PERM/INST.

CHEM 560 INTRODUCTION TO NMR SPECTROSCOPY (1-3-2)(On demand). This course will instruct students on the theory and practice of one- and two-dimensional NMR spectroscopy. Emphasis will be placed on using the NMR spectrometer to solve a variety of chemical and biological problems. PREREQ: CHEM 322, or PHYS 309 and PHYS 432, or PERM/INST.

CHEM 561 INTRODUCTION TO MOLECULAR MODELING AND COMPUTATIONAL CHEMISTRY (1-3-2)(On demand). Overview of modern computational chemistry. Use of computational chemistry tools and their application to problems of chemical and biological interest. PREREQ: CHEM 322, or PHYS 309 and PHYS 432, or PERM/INST.
Department of Civil Engineering

College of Engineering

Interim Chair: Nancy Glen
Environmental Research Building, Room 4153
(208) 426-2933 (phone)
https://coen.boisestate.edu/ce (website)

Graduate Faculty: Chittoori, Farid, Hamilton, Khanal, Lu, Miller, Mishra, Sadegh

Graduate Degrees Offered

• Master of Engineering in Civil Engineering
• Master of Science in Civil Engineering

Interdisciplinary Participation

• Master of Science in Hydrologic Sciences

General Information

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

Admission Requirements

Applicants are required to have earned at least a bachelor of science degree in civil engineering from an ABET accredited program or a baccalaureate degree in a closely related field from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A cover letter and a résumé.
3. A statement of purpose that describes the applicant’s educational and professional background, career goals, the area of specialization, and degree program to be sought, as well as their motivation for graduate study.
4. Official Graduate Record Examinations (GRE) General Test scores. GRE scores are not required for applicants with an overall undergraduate GPA above 3.5 holding a BS degree in Civil Engineering at Boise State University.
5. Three letters of recommendation from professionally related references (at least two from academic sources). Recommendation letters should address the applicant’s qualification and suitability for graduate study. Letters of recommendation are not required of graduates from the Civil Engineering program at Boise State University.

Graduate Teaching and Research Fellowships

A prospective student who is seeking a graduate assistantship must apply by February 1 for fall and summer admission and by July 1 for spring admission. Graduate assistantships within the department are highly competitive and may consist of a stipend and a tuition and fee waiver. Typical assignments include research assistantships, teaching assistantships, or assignments related to specific areas. Graduate assistantships are awarded for one year and may be renewed for an additional year upon availability of funds, satisfactory performance, and a GPA over 3.00. Prospective students are encouraged to contact individual faculty members for further information about research projects and research assistantships.

MASTER OF ENGINEERING IN CIVIL ENGINEERING

Graduate Program Coordinator: Bhaskar Chittoori
Environmental Research Building, Room 4139
(208) 426-3794 (phone)
bhaskarchittoori@boisestate.edu (email)

Degree Requirements

Students must complete at least 31 graduate credits as shown in the degree requirements table. A maximum of 3 credits of CE 696 Directed Research may be applied to meet the degree requirements.

The comprehensive examination cannot be attempted prior to the last semester of the program. If the comprehensive examination is failed on the first attempt, a Report of Failure of a Comprehensive Examination form along with the appropriate grade for CE 696 Master’s Comprehensive Examination (see Failure of a Comprehensive Examination in the Master’s Program Regulations section) will be submitted to the Graduate College. A comprehensive exam failed on the first attempt can be repeated once, but only if a second attempt is requested by the student within five working days, and approved by the CE department and the graduate program coordinator.

<table>
<thead>
<tr>
<th>Master of Engineering in Civil Engineering</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Graduate Courses</strong></td>
<td></td>
</tr>
<tr>
<td>Core courses vary by focus area*; all courses to be selected and approved by the advisor or supervisory committee.</td>
<td>12</td>
</tr>
<tr>
<td><strong>Elective Civil Engineering Courses</strong></td>
<td></td>
</tr>
<tr>
<td>Elective civil engineering courses vary by focus area*; all courses to be selected with student input and approved by the advisor or supervisory committee.</td>
<td>6-18</td>
</tr>
<tr>
<td><strong>Other Elective Courses</strong></td>
<td></td>
</tr>
<tr>
<td>Other elective courses in civil engineering or related fields; vary by focus area*; all courses to be selected with student input and approved by the advisor or supervisory committee.</td>
<td>0-12</td>
</tr>
<tr>
<td><strong>Culminating Activity CE 690 Master’s Comprehensive Examination</strong></td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>31</td>
</tr>
</tbody>
</table>

*Focus Areas: Environmental Engineering, Geotechnical/Geoenvironmental Engineering, Sustainable Infrastructure Materials, Transportation Geotechnics, Transportation Systems, or Water Resource Engineering
CIVIL ENGINEERING

MASTER OF SCIENCE IN CIVIL ENGINEERING

Graduate Program Coordinator: Bhaskar Chittoori
Environmental Research Building, Room 4139
(208) 426-3794 (phone)
bhaskarchittoori@boisestate.edu (email)

Degree Requirements

Students must complete at least 30 graduate credits as shown in the degree requirements table. A written thesis proposal with oral presentation to the supervisory committee is required prior to the completion of 15 credits applicable to the degree requirements. Work on the thesis can only be undertaken after approval of the thesis proposal by the supervisory committee.

The thesis must constitute an original contribution to the body of knowledge in civil engineering and be successfully defended at a final oral examination along with the submission of a thesis to be approved by the graduate committee. All work directly related to the thesis must be represented by at least 6 credits of CE 593 Thesis.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Graduate Courses</td>
<td></td>
</tr>
<tr>
<td>Graduate courses in civil engineering; all courses to be selected with student input and approved by the supervisory committee.</td>
<td>12</td>
</tr>
<tr>
<td>Elective Civil Engineering Courses</td>
<td>3-12</td>
</tr>
<tr>
<td>Elective civil engineering courses vary by focus area*; all courses to be selected with student input and approved by the advisor or supervisory committee.</td>
<td></td>
</tr>
<tr>
<td>Other Elective Courses</td>
<td>0-9</td>
</tr>
<tr>
<td>Other elective courses in civil engineering or related fields; vary by focus area*; all courses to be selected with student input and approved by the advisor or supervisory committee.</td>
<td></td>
</tr>
<tr>
<td>Cullminating Activity CE 593 Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Total 30

Special Rule on Transfer Credit

The normal transfer credit policies of the Graduate College hold except that up to 15 transfer credits earned in combination at the University of Idaho and Idaho State University may be applied to either degree program (MS or MEng) with the approval of the supervisory committee.

Course Offerings

CE—Civil Engineering

CE 502 COMPUTATIONAL TECHNIQUES (3-0-3)(F/S). Introduction of numerical methods to solve Civil Engineering problems with emphasis on Geotechnical Engineering problems. In-depth treatment of finite difference and integrated finite difference. Brief introduction to finite element methods and programming using MATLAB. PREREQ: CE 360, MATH 333, or PERM/INST.

CE 510 ENGINEERING HYDROLOGY (3-0-3)(F). Integrated approach to hydrology, using the hydrologic/system or control volume as a mechanism for analyzing hydrologic problems and hydrologic processes - water cycle, atmospheric water, surface and subsurface water, hydrologic analysis and design, design storms and peak flow and design flow estimation; hydrologic design methods; snowmelt runoff and evapotranspiration. PREREQ: CE 330, MATH 275 or PERM/INST.

CE 512 (GEOS 512) HYDROGEOLOGY (3-0-3)(S). Introduction to the hydrologic cycle focusing on subsurface water and its relationship to surface water. Physics of flow through porous media, physical properties of aquifer systems, methods to determine aquifer characteristics, groundwater modeling and relationships between groundwater and streamflow. May be taken for CE or GEOS credit, but not both. PREREQ: CE 330 or ME 330 or MATH 175.

CE 520 ENVIRONMENTAL PROCESS CHEMISTRY (3-0-3)(S)(Even years). Chemical principles of water and wastewater treatment processes and reactions in receiving waters. Topics include chemical thermodynamics, reaction kinetics, acid-base equilibria, mineral precipitation/dissolution, and electrochemistry. PREREQ: CE 520 or PERM/INST.


CE 523 AIR POLLUTION CONTROL ENGINEERING (3-0-3)(F/S). Surveys the sources, fates, effects and control of air pollutants. Covers industrial, agricultural, and municipal contributions to acid rain, smog, and toxic air pollutants in fish and humans. Students demonstrate skill in the use of mathematical and computer predictions for the fate of air pollutants in the design of air pollution control systems and communicate engineering concepts in oral presentations and in writing. PREREQ: CE 320 or PERM/INST.

CE 524 WATER TREATMENT PLANT SYSTEMS AND DESIGN (3-0-3)(S)(Odd years). Theoretical and practical engineering aspects of advanced chemical and physical phenomena and processes applicable to the design for removal of impurities from ground and surface water sources, including experimental problem analysis, conveyance systems and optimal treatment solution reporting. PREREQ: CE 320, and CE 330 or ME 330 or PERM/INST.

CE 525 WASTEWATER TREATMENT PLANT SYSTEMS AND DESIGN (3-0-3)(F)(Odd years). Theoretical and practical engineering aspects of advanced chemical, physical and biological phenomena and processes applicable to the design for removal of impurities from wastewater and industrial wastes and to their transformation in receiving waters, including experimental problem analysis, collection system conveyance and optimal treatment solution reporting. PREREQ: CE 320, and CE 330 or ME 330 or PERM/INST.

CE 526 (GEOS 526) AQUEOUS GEOCHEMISTRY (3-0-3)(F/S). Basic tools and topics of aqueous geochemistry with an emphasis on low temperature processes in natural waters. Essentials of thermodynamics, kinetics, aqueous speciation, mineral-water interaction, and elemental cycling in the context of surficial earth processes and environmental challenges. May be taken for CE or GEOS credit, but not both. PREREQ: PERM/INST.


CE 537 GIS IN WATER RESOURCES (3-0-3)(F/S)(Odd years). Applications of Geographic Information Systems (GIS) in pre- and post-processing of model inputs and outputs, digital elevation models, flow direction and flow accumulation, spatial analysis and interpretation, Model Builder, data model, tools, functionality and examples of real-world water and natural resource problems and integration of external models (e.g., SWAT). PREREQ: CE 416, GEOG 360, or PERM/INST.

CE 538 WATER RESOURCES ENGINEERING (2-3-3)(F/S). Flood frequency analysis, reservoir characteristics and design, open channel flow applications, water project design, model studies, pump and turbine hydraulics and other water resources engineering topics. PREREQ: CE 330 or ME 330.

CE 540 PAVEMENT DESIGN AND EVALUATION (3-0-3)(F/S). Pavement design processes, materials selection and characterization methods, design of flexible pavements, design of rigid concrete pavements, condition survey and ratings, distress evaluation, and maintenance and rehabilitation techniques. PREREQ: CE 340 and CE 370.

CE 552 STRUCTURAL STEEL DESIGN (2-3-3)(F/S). Design of steel structures, such as beams and columns, in accordance with latest AISC Manual of Steel Construction, LRFD edition. PREREQ: CE 352.

CE 554 TIMBER DESIGN (3-0-3)(F/S). Design of wood, and wood composite, structures and systems based on mechanical and structural characteristics and specifications. PREREQ: CE 352.


CE 556 MASONRY DESIGN (3-0-3)(F/S). Design of masonry structures and systems based on mechanical and structural characteristics and specifications. PREREQ: CE 352.

CE 560 GEOTECHNICAL ENGINEERING DESIGN I (3-0-3)(F/S). Subsoil exploration and site investigation methodologies. Soil mechanics in design of earth retaining structures, shallow and deep foundations. PREREQ: CE 360 and CE 361.


CE 564 SEEPAGE, DRAINAGE, FLOW NETS AND EMBANKMENTS (3-0-3)(F/S). Emphasis on the applied aspects of groundwater flow and seepage through porous media from a theoretical point of view; examination and development of governing field equations; flow net construction, modeling techniques, filter design, construction dewatering; simplified design of small earthfill dams and slope stability of embankments. PREREQ: CE 360, CE 361.

CE 570 HIGHWAY SYSTEMS DESIGN (3-0-3)(F/S). Design of urban and rural highway systems. Use of computer-aided-design software is required. PREREQ: CE 360, CE 370, or PERM/INST.

CE 572 TRANSPORTATION PLANNING (3-0-3)(F/S). Theory and practice of transportation planning at the metropolitan as well as regional levels. Use of software and completion of a project is required. Recent advances in transportation planning will be introduced. PREREQ: CE 370 or PERM/INST.

CE 575 TRAFFIC SYSTEMS DESIGN (3-0-3)(F/S). Design of operations, control, and management of traffic systems. Use of software and completion of a project is required. PREREQ: CE 370 or PERM/INST.

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

CE 624 (GEOPH 624)(GEOS 624) APPLIED HYDROGEOLOGY (3-0-3)(S). Quantitative determination of hydrologic parameter values and groundwater flow conditions. Conceptual models and geologic context, boundary condition, analytical and numerical solution techniques, measurement methods, applications to engineering and environmental problems. May be taken for credit in CE, GEOPH, or GEOS, but not for more than one department. PREREQ: CE 623 or GEOPH 623 or GEOS 623 or PERM/INST.

CE 630 (GEOS 630) VADOSE ZONE HYDROLOGY (3-0-3)(F)(Even years). Laboratory and field methods for characterizing physical and hydraulic properties of soils, solution of variably saturated flow problems using analytical and numerical techniques. Computer simulations of flow and transport in variably saturated soils. May be taken for CE or GEOS credit, but not for both. PREREQ: CE 412, GEOS 412, CE 512, or GEOS 512 or PERM/INST.

CE 633 (GEOS 633) CONTAMINANT HYDROGEOLOGY (3-0-3)(F)(Odd years). The fate and transport of dissolved solutes and non-aqueous phase liquids in groundwater systems. Students will analyze field data and develop conceptual models for contaminated sites. The role of engineers and hydrologists in environmental litigation will be addressed through case studies. May be taken for CE or GEOS credit, but not for both. PREREQ: CE 412 or CE 512 or GEOS 412 or GEOS 512, or PERM/INST.
College Teaching Certificate

Graduate College

GRADUATE CERTIFICATE IN COLLEGE TEACHING

Graduate Program Coordinator: Megan Frary
Micron Engineering Center Room 403G
(208) 426-1061 (phone)
meganfrary@boisestate.edu (email)

Graduate Program Coordinator: Tasha Souza
Interactive Learning Center, Room 315
(208) 426-3704 (phone)
tashasouza@boisestate.edu (email)

General Information
The Graduate Certificate in College Teaching is designed to enhance teaching effectiveness of graduate teaching assistants and provide marketable skills for graduate students wishing to seek employment in higher education as instructors. The Graduate Certificate in College Teaching is open to all current graduate students who are considering employment in higher education, as well as others who have previously earned a master's or doctoral degree.

Application Deadline
• October 1 (fall admission only)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a nationally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A personal statement describing the applicant's interest in the program, any previous teaching experiences, and professional goals. Include in the statement how the program would benefit the applicant's future teaching. The personal statement should also specify which track the applicant would like to pursue (i.e., the teaching track or the pedagogy track).
3. A proposal regarding the possible course(s) the applicant would like to teach as part of GCOLL 514 (teaching two weeks), GCOLL 512 (co-teaching a course), or GCOLL 513 (full course responsibility). The course taught as part of GCOLL 512 or GCOLL 513 should be a minimum of 3 credits; ideally the course is a non-laboratory course, but some lab courses may be suitable for one of the two tracks with prior approval. Also include names of any mentors who might serve as the mentor teacher for this course.
4. If applying for the teaching track, a letter from the department chair saying that they will support the applicant's teaching in the department. For students applying for the teaching track, successful completion of GCOLL 511 and support from GCOLL 511 instructor(s) is needed to continue in the teaching track. Where those conditions do not apply, or if the student cannot secure a suitable teaching assignment, students may switch to the pedagogy track.
5. A minimum of two letters of recommendation from individuals who can speak the applicant's potential as a college teacher.

Certificate Requirements
All participants in the Graduate Certificate in College Teaching must complete GCOLL 511 (Teaching in Higher Education) and GCOLL 517 (College Teaching Portfolio). The capstone course (GCOLL 517) for the certificate requires that students have previously attended the graduate student Teaching Assistant Orientation, offered each fall by the Center for Teaching and Learning (CTL), and have participated in at least three (3) professional development workshops offered through the CTL (or the equivalent elsewhere, e.g., disciplinary conferences with sessions on pedagogy in the discipline, etc.). The remaining 3-4 credits can be earned in one of two tracks:

Pedagogical Development Track. The pedagogical track includes a small teaching component (through GCOLL 514) where the student will have the experience of planning and facilitating lessons and assessments. This track includes more time spent on exploring pedagogical strategies and their potential use and through GCOLL 516.

Teaching Track. The teaching track includes the mentored teaching or co-teaching of a 3-credit course (minimum) in the student's home department or a closely related discipline. In order to be accepted for this track, the student must have identified a course to be taught prior to admission and have the support of the department chair in the department offering the course. In the semester before the student will enroll in GCOLL 512 or GCOLL 513, final approval of the course to be taught must be granted by the certificate program coordinator and the department chair of the department offering the course. It is expected that the teaching experience gained through GCOLL 513 will be compensated appropriately (e.g., that the student will be hired as a teaching assistant or adjunct).

<table>
<thead>
<tr>
<th>Graduate Certificate in College Teaching</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number and Title</td>
</tr>
<tr>
<td>GCOLL 511 Teaching in Higher Education</td>
</tr>
<tr>
<td>GCOLL 517 College Teaching Portfolio</td>
</tr>
<tr>
<td>Select one of the following Tracks:</td>
</tr>
<tr>
<td>Pedagogical Development Track</td>
</tr>
<tr>
<td>GCOLL 514 Field Experience in College Teaching</td>
</tr>
<tr>
<td>GCOLL 516 Exploration of Pedagogy</td>
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<tr>
<td>Teaching Track</td>
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<tr>
<td>GCOLL 512 Internship in College Teaching</td>
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<tr>
<td>GCOLL 513 Practicum in College Teaching</td>
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<tr>
<td>Total</td>
</tr>
</tbody>
</table>
Course Offerings

See Course Numbering and Terminology for definitions.

GCOLL—Graduate College

GCOLL 505 RESPONSIBLE CONDUCT OF RESEARCH (1-0-1)(F,S). Basic concepts, principles and practices governing research compliance and Responsible Conduct of Research (RCR) in each of four disciplinary areas (one area chosen by each student): biomedical sciences, social and behavioral sciences, physical sciences and engineering, humanities. Each area includes an overview of research conduct and misconduct, data acquisition and management, responsible authorship, peer review, mentoring, conflicts of interest, collaborative research, human subjects, and animal research. Online materials produced by the Collaborative Institutional Training Initiative (CITI). Lectures will cover the online materials and related case studies, and other areas of research compliance including patents, intellectual properties, non-disclosure agreements, and sponsored projects. (Pass/Fail.) PREREQ: Graduate standing.

GCOLL 511 TEACHING IN HIGHER EDUCATION (3-0-3)(S). A study of the nature of learning. Students explore all aspects of course design, including structuring and facilitation of classroom learning, assessment methods, how to increase student engagement, and the use of technology in enhancing learning. Overview of academic careers. PREREQ: Admission to GC in College Teaching or PERM/INST.

GCOLL 512 INTERNSHIP IN COLLEGE TEACHING (1-2-3)(F/S/SU). Provides qualified graduate students with an opportunity to develop as university teachers by co-teaching a college course. Includes planning lessons/lectures and assessment of student learning during the co-teaching experience. Workload must be in accordance with university guidelines for internships. In the semester when students enroll, students are required to have a teaching assignment which has been approved by the program coordinator, instructor of record for the course, and the chair of the department offering the course. PREREQ: GCOLL 511 and PERM/INST.

GCOLL 513 PRACTICUM IN COLLEGE TEACHING (1-3-4)(F/S/SU). Provides qualified graduate students with an opportunity to develop as university teachers. Includes planning the lessons/lectures and assessment of student learning during the mentored teaching experience; students enrolled in the practicum have full responsibility for a course. In the semester when students enroll, they are required to have a teaching assignment which has been approved by the program coordinator and chair of the department offering the course. Offered through collaboration between Boise State University and collaborating institutions. Open to all qualified graduate students, but primarily intended for doctoral students. PREREQ: GCOLL 511 and PERM/INST.

GCOLL 514 FIELD EXPERIENCE IN COLLEGE TEACHING (1-1-1)(F/S/SU). Provides qualified graduate students with an opportunity to develop as university teachers by teaching in a college course. Includes planning and facilitating classroom sessions, as well as assessment of student learning during those class periods. In the semester when students enroll, students are required to have arranged with an instructor who is willing to let them plan and facilitate two weeks of instruction; the arrangement must be approved by the program coordinator. PREREQ: GCOLL 511 and PERM/INST.

GCOLL 516 EXPLORATION OF PEDAGOGY (1-1-1)(F,S). Provides graduate students an opportunity to learn more about pedagogy, best teaching practices, how technology is incorporated in the classroom, and other strategies for engaging and working with students with diverse backgrounds through workshops and other programs offered by the Center for Teaching and Learning. With instructor’s approval, students may pursue other pedagogical areas of interest. May be repeated for credit.

GCOLL 517 COLLEGE TEACHING PORTFOLIO (1-2-2)(F/S). Development of a professional teaching portfolio and teaching philosophy statement. Reflection on teaching experiences and professional development experiences. Exploration of careers in higher education. Prior to enrollment, students must have completed the Graduate TA Orientation. PREREQ: GCOLL 512 or GCOLL 513 or GCOLL 514, and PERM/INST.
Department of Communication

College of Arts and Sciences

Department Head: Todd Norton
Communication Building, Room 100
(208) 426-3320 (phone)
https://communication.boisestate.edu (website)

Graduate Faculty: Ashley, Casper, Cho, Hicks, Isbell, King, Lane, e. mcclellan, J. McClellan, Moore, Most, Norton, Reeder, Rossetto, Souza, Traynowicz

MASTER OF ARTS IN COMMUNICATION

Graduate Program Coordinator: John G. McClellan
Communication Building, Room 103
(208) 426-2450 (phone)
johnmcclelan@boisestate.edu (email)

General Information

The MA in Communication provides opportunities for students to pursue advanced study of human communication to understand, critique, and actively engage contemporary interpersonal, organizational, cultural, social, and media-related issues. With a focus on both the theory and practice of communication, the program seeks to develop engaged scholars, critical thinkers, and leaders capable of practicing communicative perspectives in a variety of contexts. Supported by graduate faculty advisors and committees, graduate students develop their scholarship and independent research and writing abilities while learning to critically examine the complexities of communication, social interaction, and media. The program encourages students to connect their study of communication with their professional interests, civic engagements, or life aspirations.

The program offers a vibrant intellectual community and supportive graduate culture. While earning a Master's degree in Communication, students choose courses across three interrelated and mutually-supportive areas of study: 1) Relational and Organizational Studies—exploring communication among individuals, groups, and organizations to enhance personal relationships and improve the ways we live and work well with others; 2) Critical/Cultural Studies—critiquing social, political, and cultural practices to examine issues of power, difference, and rhetoric in everyday life; and 3) Media Studies—examining the cultural and political influences of media to better engage in the production and consumption of news, information, and entertainment in a democratic society. While some gravitate toward a particular area of interest, graduate students take course across all areas of study to gain a broad-based mastery of the field of communication and promote a collaborative and inclusive graduate community.

Application Deadline

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- January 15 (fall admission only)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A statement of purpose describing background, academic interests, academic or professional goals, how the program can help the applicant achieve them, and possible areas of interest.
3. A current résumé or curriculum vitae.
4. Official Graduate Record Examinations (GRE) General Test scores (not required for undergraduate communication majors with a GPA of 3.30 or above).
5. A writing sample that includes an analytical thesis argument and employs evidence (theoretical or empirical) to support the argument (minimum of 8 pages).
6. List of completed undergraduate communication theory courses and social science research methods courses.
7. Three letters of recommendation (preferably two from academic references).

Graduate Assistantships

A limited number of graduate assistantships that include a stipend, tuition and fee waiver, and student health insurance may be available to MA students on a competitive basis. Graduate assistants typically serve as graduate teaching assistants with faculty or teach stand-alone communication courses. Occasionally graduate research assistantships are available for students to support faculty research or creative projects. Graduate assistants must enroll in a minimum of nine credit hours each semester and must meet other requirements as set by the Graduate College. Applicants interested in this opportunity must apply for a graduate assistantship.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Core Sequence</strong></td>
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</tr>
<tr>
<td>COMM 501 Research Methods</td>
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</tr>
<tr>
<td>COMM 505 Theory and Philosophy of Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMM 598 Seminar</td>
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<tr>
<td><strong>Elective Courses</strong></td>
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</tr>
<tr>
<td>COMM 506 Interpersonal Communication</td>
<td></td>
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<tr>
<td>COMM 507 Organizational Communication</td>
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<tr>
<td>COMM 508 Media Theory and Criticism</td>
<td></td>
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<tr>
<td>COMM 509 Media Law and Ethics</td>
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<td>COMM 510 Communication, Community and Politics</td>
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<td>COMM 511 Critical Theories</td>
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<td>COMM 512 Culture and Communication</td>
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<td>COMM 520 Collaboration and Conflict</td>
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<td>COMM 521 Discourse and Identity</td>
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<td>COMM 522 Communication Pedagogy and Training</td>
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<td>COMM 530 Media, Politics, and Power</td>
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<td>COMM 531 Media and Institutions</td>
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<td>COMM 532 Media Aesthetics and Culture</td>
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<td>COMM 540 Communication, Gender, and Difference</td>
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<td>COMM 541 Rhetoric and Civic Life</td>
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<tr>
<td>COMM 590 Practicum/Internship</td>
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<td>COMM 595 Reading and Conference</td>
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<td>COMM 596 Independent Study</td>
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<td>COMM 597 Special Topics in Communication</td>
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<td><strong>Culminating Activity</strong></td>
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<tr>
<td>COMM 591 Project (6 cr)</td>
<td>3-6</td>
</tr>
<tr>
<td>COMM 593 Thesis (6 cr)</td>
<td></td>
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<tr>
<td>COMM 690 Master’s Comprehensive Examination (3 cr)</td>
<td></td>
</tr>
</tbody>
</table>

Total                                                31
Course Offerings

COMM—Communication

COMM 501 RESEARCH METHODS (3-0-3)(F). Provides an overview of foundational methodological approaches to research in the field of communication and media studies. Introduces students to issues of epistemology, scholarly inquiry, and criticism as aligned with common approaches to the study of communication.

COMM 505 THEORY AND PHILOSOPHY OF COMMUNICATION (3-0-3)(S). Provides an overview of leading theoretical traditions in communication studies and the philosophy of communication. Emphasizes meta-theoretical issues and understanding communication theory and theorizing as a lens for understanding everyday communication practices.

COMM 506 INTERPERSONAL COMMUNICATION (3-0-3)(F/S). Explores contemporary theory and research related to the practice of interpersonal communication. Addresses contemporary issues with relational development, maintenance, and decline as well as varied types of relationships and relational contexts.

COMM 507 ORGANIZATIONAL COMMUNICATION (3-0-3)(F/S). Explores contemporary theory and research associated with the practice of organizational communication. Emphasizes communication as constitutive of organization and communication as essential in creating, maintaining, and changing organizational structures, cultures, identities, and power relations.

COMM 508 MEDIA THEORY AND CRITICISM (3-0-3)(F/S). Examines a broad range of theoretical perspectives on media institutions, practices, and effects. Emphasis is given to the implications of media theory and research for citizens, members of civic or professional organizations who work with media, as well as media practitioners.

COMM 509 MEDIA LAW AND ETHICS (3-0-3)(F/S). Examines varied legal and ethical issues facing media practitioners and the public as consumers of media. Topics include First and Fourth Amendment, the right to privacy, censorship, libel and slander, copyright, and media and national security considerations.

COMM 510 COMMUNICATION, COMMUNITY, AND POLITICS (3-0-3)(F/S). Explores the connections between theory and practice in communication studies, community organizing, and politics. Examines the exercise of power, conflicts between autonomy and control, and intersections between political and social life.

COMM 511 CRITICAL THEORIES (3-0-3)(F/S). Provides an overview of critical perspectives of media, society, and organizations by exploring the work of the Frankfurt School, postmodern perspectives, as well as feminist and other critical theories in the field of communication.

COMM 512 CULTURE AND COMMUNICATION (3-0-3)(F/S). Examines current issues and theoretical perspectives in the study of communication within particular cultural contexts. Topics include the history of the terms “culture” and “communication,” and the evolution of theoretical perspectives on both terms.

COMM 520 COLLABORATION AND CONFLICT (3-0-3)(F/S). Explores contemporary communication theory and research on collaboration and conflict. Attends to issues of conflict, conflict suppression, decision making, participatory practices, and workplace democracy.

COMM 521 DISCOURSE AND IDENTITY (3-0-3)(F/S). Examines discourse as a way to explore the intersections of communication and identity. Addresses the ways communicative practices create knowledge of the self with attention to issues of gender, race, ethnicity, disciplinary power, bio-politics, consent, and control.

COMM 522 COMMUNICATION PEDAGOGY AND TRAINING (3-0-3)(F/S). Explores teaching and learning scholarship focusing on communication pedagogy and the practice of teaching communication. Helps prepare students to teach in academic and other organizational settings.

COMM 530 MEDIA, POLITICS, AND POWER (3-0-3)(F/S). Explores the role of media in politics, governance and citizenship, with emphasis on the American media system. Focuses on the institutional relationships that control and influence media coverage of politics, campaigns, elections and policymaking, and examines the impact of digital technology and the Internet on participatory democracy.

COMM 531 MEDIA AND INSTITUTIONS (3-0-3)(F/S). Examines the influences of social forces and institutions on media organizations. Topics include the ways advertising, public relations, social media, and legal, regulatory, and political systems influence media economics, content, and competition.

COMM 532 MEDIA AESTHETICS AND CULTURE (3-0-3)(F/S). Explores the philosophical and cultural implications of media theory through the lens of aesthetics. With attention to the historical progression of theory addressing the moving image, this course focuses on the mutually dependent relationship between form and content in understanding, analyzing, and interpreting visual media texts.

COMM 540 COMMUNICATION, GENDER, AND DIFFERENCE (3-0-3)(F/S). Explores the intersections of communication and gender. Attends to difference and diversity as communicative accomplishments and examines issues of identity, language, power, and hegemony.

Department of Community and Environmental Health

College of Health Sciences | School of Allied Health Sciences

Chair: Lillian Smith
Health Science Riverside, Room 106
(208) 426-3929 (phone)
https://hs.boisestate.edu/mhs (website)

Graduate Faculty: Baker, Curl, Reischl, Schafer, Smith, Spear, Toevs

Graduate Degrees Offered
- Master of Health Science, Health Policy
- Master of Health Science, Health Promotion
- Master of Health Science, Health Services Leadership
- Graduate Certificate in Health Services Leadership

General Information
Housed in the School of Allied Health Sciences the Department of Community and Environmental Health partners with the Departments of Kinesiology and Public Policy and Administration to provide comprehensive graduate degree programs that utilize the public health, social, and behavioral sciences to support students as they develop and apply critical thinking, problem-solving, and leadership skills.

MASTER OF HEALTH SCIENCE

Graduate Program Director: Mike Mann
Health Sciences Riverside Building, Room 112
(208) 426-3334 (phone)
mhsinfo@boisestate.edu (email)
https://hs.boisestate.edu/mhs (website)

General Information
The mission of the Master of Health Science (MHS) program is to prepare recent undergraduate students and established professionals for leadership positions in public health, public and private health agencies, and health care institutions. The MHS degree provides the foundational knowledge and practical dimensions necessary for students to be effective advocates, strategists, and administrators in a variety of public health and health care settings. Students in the MHS program can study in one of three important emphasis areas: health policy, health promotion and health services leadership. Students can also pursue a Graduate Certificate in Health Services Leadership.

The curriculum is designed to serve the working professional without interrupting their employment, yet meet the rigorous standards of graduate level work. Although the MHS program is administered by the College of Health Sciences, graduate faculty are drawn from several programs across campus, including Public Policy and Administration, Economics, Kinesiology, and Nursing. The Master of Public Administration (MPA) program, with lead responsibility in the area of public policy, is a key partner in the health policy area of concentration.

Application Deadlines
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- March 1 (summer/fall)
- October 1 (spring)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A 250 word statement explaining educational and career background and future objectives.
3. A current résumé or curriculum vitae.
4. Completion of a proctored writing examination.
5. Completion of an undergraduate statistics course and an undergraduate epidemiology course.
6. An interview with the Director of the MHS program.
7. A TOEFL score of at least 80 Internet-based (550 paper-based) or IELTS score of at least 6.0 for international applicants.
8. Three letters of recommendation.

Graduate Assistantships
Graduate assistantships covering tuition and fee waivers may be available through research grants and contracts. Contact the MHS director for information on assistantships.
Degree Requirements
A minimum of 36 credits is required for graduation. The MHS student who attends full time will normally be enrolled for a two-year sequence including summers. Typically, however, students maintain employment positions and attend the program part-time, thereby extending the length of time required to obtain the degree.

The curriculum (36-39 credits) is comprised of required core courses of 18 credits with an additional 18-21 credits of required area of concentration courses, and a thesis, project, or elective courses. The expectation of the program is that students earn grades of B or better in their coursework. A student is allowed to receive a grade that is less than B (B- or C) in a single course, however; at the time they will be placed on academic probation. A grade of less than B in a second course will result in that student being dismissed from the program. Retaking a class in which a student earned a grade of less than B may not remove a student from academic probation (see Academic Performance, Cumulative GPA Requirement section) or lead to reinstatement in the program. All courses must be approved for application to the degree requirements by the supervisory committee and/or the program director in consultation with the major advisor. Elective courses may be chosen from any approved graduate courses at Boise State University and selected courses from Idaho State University’s Master of Public Health program. An individual program may include no more than 18 credits representing dual-listed courses and G-courses or 3 credits of internship.

<table>
<thead>
<tr>
<th>Master of Health Science, Graduate Core</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHLTHSCI 505 Health Science Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>MHLTHSCI 520 Population Health and Delivery Systems</td>
<td>3</td>
</tr>
<tr>
<td>MHLTHSCI 535 Ethics and Health Policy</td>
<td>2</td>
</tr>
<tr>
<td>MHLTHSCI 552 (KINES 552) Applied Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>*MHLTHSCI 555 Program Evaluation in the Health Settings</td>
<td>3</td>
</tr>
<tr>
<td>**MHLTHSCI 579 Managerial Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>MHLTHSCI 692 Capstone Course</td>
<td>1</td>
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<td>18</td>
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</tbody>
</table>

*Prerequisites include MHLTHSCI 505
**Prerequisites include introductory course in epidemiology and MHLTHSCI 552 or equivalent.

<table>
<thead>
<tr>
<th>Master of Health Science, Health Policy</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MHS Graduate Core</td>
<td>18</td>
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<tr>
<td>ECON 540 Health Economics or MHLTHSCI 504 Health Care Economics, Financing &amp; Delivery</td>
<td>3</td>
</tr>
<tr>
<td>MHLTHSCI 550 Current Issues in Health Policy</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 500 Administration in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 501 Public Policy Process</td>
<td>3</td>
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<td>Culminating Activity</td>
<td>6-9</td>
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<tr>
<td>Project MHLTHSCI 591 Project (6 cr)</td>
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<tr>
<td>Thesis MHLTHSCI 593 (5 cr)</td>
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<tr>
<td>MHLTHSCI 688 Thesis Proposal (1 cr)</td>
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<tr>
<td>Course Work</td>
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<td>9 credits of elective course work</td>
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<tr>
<td>Total</td>
<td>36-39</td>
</tr>
</tbody>
</table>
Course Offerings

**HLTHST—Health Science**

**HLTHST 480G EPIDEMIOLOGY (2-3-3)(F/S)**. Study of the distribution and determinants of disease within human populations. PREREQ: Upper-division standing and KINES 301 or MATH 254 or PSYC 295 or SOC 310.

**MHLTSCI—Master of Health Science**

**MHLTSCI 504 (NURS 504) HEALTH CARE ECONOMICS, FINANCING AND DELIVERY (3-0-3)(F/S/SU)**. Differentiates health care economics, financing and payment systems as context for fiscal management and budgeting; examines health care delivery from organizational and operational perspectives, all of which are applied in writing proposals. May be taken for MHLTSCI or NURS credit, but not both. PREREQ: Admission to Graduate Program in Master of Health Science or Nursing.

**MHLTSCI 505 HEALTH SCIENCE RESEARCH METHODS (3-0-3)(F)**. Inquiries into the history of health science research and the scientific method. Research strategies and methodologies will be discussed. Students will each develop a prospectus of study. The course is to be completed before a project or thesis is undertaken. PREREQ: Completion of an undergraduate statistics course and admission to MHS program or PERM/INST.

**MHLTSCI 520 POPULATION HEALTH AND DELIVERY SYSTEMS (3-0-3)(F)**. Explores the social determinants of health and the question of why the richest and most powerful country in world history is not the healthiest. Examines the history, organization, and comparative effectiveness of United States health care and public health systems. PREREQ: Admission to MHS program or PERM/PROG DIR.

**MHLTSCI 522 MANAGEMENT FOR HEALTH PROFESSIONALS (3-0-3)(F/S)**. In-depth discussion of management strategies as they apply to healthcare, with emphasis on communication, program planning, organization, staff development, program coordination, and evaluation of results.

**MHLTSCI 525 LEADERSHIP FOR HEALTH PROFESSIONALS (3-0-3)(S/SU)**. An overview of various approaches to leadership, authority, motivation, adaptation, and organizational conflict as they relate to the health care supervisor's role in accomplishing organizational goals and objectives.

**MHLTSCI 529 MARKETING FOR HEALTH PROFESSIONALS (3-0-3)(F)**. Examination of marketing models used in health and health care including identification of consumer needs, market segmentation, and designing a balanced marketing program. PREREQ: Admission to MHS program or HSL Graduate Certificate program or PERM/INST.

**MHLTSCI 535 ETHICS AND HEALTH POLICY (2-0-2)(S)**. Systematic examination of ethics as it relates to decision making in health policy. Discussion includes the moral issues of health care quality, right to life and right to death. PREREQ: Admission to MHS program or PERM/INST.

**MHLTSCI 550 CURRENT ISSUES IN HEALTH POLICY (3-0-3)(F)**. Examines current issues in health care policy in the United States health care system. The structure, administration and financing of the health care system are reviewed and recent changes and their effects on cost, quality, and access to health care are discussed. Some attention is given to health policy issues in other countries as they influence and impact policy in the United States. PREREQ: Admission to MHS program or PERM/INST.

**MHLTSCI 552 (KINES 552) APPLIED STATISTICAL METHODS (3-0-3)(F/S)**. An introduction to statistical techniques utilized in the treatment of data. The techniques to be covered include measures of central tendency and variability, correlation measures, probability, analysis of variance, and regression analysis. May be taken for KINES or MHLTSCI credit, but not both. PREREQ: Completion of an undergraduate statistics course and graduate standing in MHS or Kinesiology, or PERM/INST.

**MHLTSCI 525 LEADERSHIP FOR HEALTH PROFESSIONALS**

**MHLTSCI 529 MARKETING FOR HEALTH PROFESSIONALS**

**MHLTSCI 535 ETHICS AND HEALTH POLICY**

**MHLTSCI 550 CURRENT ISSUES IN HEALTH POLICY**

**MHLTSCI 552 (KINES 552) APPLIED STATISTICAL METHODS**

**Certificate Requirements**

<table>
<thead>
<tr>
<th>Graduate Certificate in Health Service Leadership</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
<td><strong>Credits</strong></td>
</tr>
<tr>
<td>DISPUT S01 Human Factors in Conflict Management</td>
<td>1</td>
</tr>
<tr>
<td>DISPUT S02 Negotiation Theory and Practice</td>
<td>1</td>
</tr>
<tr>
<td>DISPUT S05 Culture and Conflict</td>
<td>1</td>
</tr>
<tr>
<td>MHLTSCI 522 Management for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>MHLTSCI 525 Leadership for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>Select 6 credits from the following:</td>
<td>6</td>
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<tr>
<td>ECON S40 Health Economics</td>
<td></td>
</tr>
<tr>
<td>MHLTSCI 504 Health Care Econ, Financing &amp; Delivery</td>
<td></td>
</tr>
<tr>
<td>MHLTSCI 520 Population Health and Delivery Systems</td>
<td></td>
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<tr>
<td>MHLTSCI 529 Marketing for Health Professionals</td>
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</tr>
<tr>
<td>MHLTSCI 550 Current Issues in Health Policy</td>
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<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Gainful Employment Disclosure**

The Graduate Certificate in Health Services Leadership program is subject to gainful employment disclosures as prescribed by federal regulation 34 CFR 668.6(b) (2) (iv). The required disclosure is given at the following website: https://graduatecollege.boisestate.edu/programs2018/Gedt-Health%20Services%20Leadership%202018/51.2299-Gedt.html.
COMMUNITY AND ENVIRONMENTAL HEALTH

MHLTHSCI 555 PROGRAM EVALUATION IN HEALTH DELIVERY SETTINGS (3-0-3)(S). Topics include evaluation overview, models, and evaluative study objectives, methodological design, interpretation of data, and final report preparation. The course includes a thorough review of statistics and sampling as they apply to program evaluation methodologies. PREREQ: Undergraduate statistics, MHLTHSCI 505 and admission to MHS program, or PERM/INST.

MHLTHSCI 560 PUBLIC HEALTH DISASTER PREPAREDNESS PLANNING – RISK MANAGEMENT (3-0-3)(F)(Even years). Risk assessment or risk management methods in public health disaster preparedness planning will be presented in context of natural and human-caused disasters. The environmental, economic, and social consequences for communities will be studied. PREREQ: Graduate standing or PERM/INST.

MHLTHSCI 566 COMPLEMENTARY AND ALTERNATIVE THERAPIES (2-0-2)(F/S). An exploration of the ethical, legal and policy issues surrounding non-conventional medical practices. Discussion on current research of efficacy and consumer acceptance will accompany clinical demonstrations of selected modalities, such as acupuncture and massage therapy.

MHLTHSCI 570 (KINES 570) HEALTH PROMOTION (3-0-3)(F/S). Coverage of individual, interpersonal, and group/community theories of health behavior change, with emphasis on designing, implementing, and evaluating theory-based interventions. Other topics include studying the impact of diversity and social and economic factors on health, and improving the effectiveness of health behavior change programs for underserved groups. May be taken for KINES or MHLTHSCI credit, but not both.

MHLTHSCI 571 (COUN 571)(SOCWRK 571) FUNDAMENTALS OF HEALTH AGING (3-0-3)(F,S,SU). Overview of gerontology presented by examining major issues related to aging. Content includes theories of aging; the impact of an aging population; and future implications at local, national, and international levels. May be taken for MHLTHSCI, COUN, or SOCWRK credit, but only from one department.

MHLTHSCI 572 (KINES 572) GRANT WRITING (3-0-3)(SU). Examination of the process of securing resources from external entities. Students will learn and apply a variety of techniques employed in proposal development and grant authorship. May be taken for KINES or MHLTHSCI credit, but not both.

MHLTHSCI 574 (KINES 574) HEALTH PROMOTION AND OPTIMAL AGING (3-0-3)(F)(Even years). Focus on promoting healthful behavior and quality of life among older adults. Application of theory, research, and practice to gerontological health promotion and wellness. May be taken for KINES or MHLTHSCI credit, but not both.

MHLTHSCI 579 MANAGERIAL EPIDEMIOLOGY (3-0-3)(F/S). Use of epidemiologic research to manage and enhance the delivery of health services and manage health care organizations. Practical applications of epidemiology to health services management including identification of different sources of epidemiologic data, management of population health, financial implications of poor health, health services planning, quality monitoring, policy development and clinical practice improvement. PREREQ: HLTHST 480-480G and MHLTHSCI 552, or PERM/INST.

MHLTHSCI 580 SELECTED TOPICS IN RESEARCH (3-0-3)(F/S/SU). Exploration of research in topical areas of the health sciences and related disciplines.
Department of Computer Science

College of Engineering

Chair: Amit Jain
City Center Plaza Suite 364
(208) 426-5766 (phone)
computerscience@boisestate.edu (email)
https://coen.boisestate.edu/cs/ (website)

Graduate Faculty: Andersen, Buffenbarger, Cutchin, Dagher, Ekstrand, Fails, Hou, Jain, Kennington, Long, Mehrpouyan, Olschanowsky, Pera, Serra, Sherman, Spezzano, Xiao, Xu, Yeh

Graduate Degrees Offered

• Master of Science in Computer Science
• Graduate Certificate in Computer Science Teacher Endorsement

Interdisciplinary Participation

• Doctor of Philosophy in Computing

MASTER OF SCIENCE IN COMPUTER SCIENCE

Graduate Program Coordinator: Jerry Fails
City Center Plaza, Room 257
(208) 426-5783 (phone)
jerryfails@boisestate.edu (email)

General Information

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

• a baccalaureate degree in computer science, or
• a degree in a related field with significant course work in computer science.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree in computer science or related field (plus substantial coursework and/or professional experience in computer science) from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A statement of purpose including educational and professional background, motivation for graduate study, career goals, and areas of interest.
3. A current résumé or curriculum vitae.
4. Official Graduate Record Examinations (GRE) General Test scores.
   Applicants holding a baccalaureate degree from Boise State University are not required to submit GRE scores.
5. Two letters of recommendation.

Degree Requirements

The degree requirements described below allow the student a fair amount of flexibility in designing a program to fit their needs. The course work is to be chosen by the student, in consultation with their advisor and the Computer Science Graduate Committee. The Master of Science in Computer Science requires a minimum of 30 credit hours, as specified in the table below. The student can take up to three credits of independent study. The student can also take up to three credits of Practicum (industrial internship). In addition, the student’s advisor and the Computer Science Graduate Coordinator must approve the student’s proposed degree plan to ensure that it meets these criteria and forms a coherent program of study. All requirements for the degree must be completed within five years of initial enrollment in the program, unless the Computer Science Graduate Committee grants an explicit extension of time. In no event will more than seven years be allowed for completion of the degree.

<table>
<thead>
<tr>
<th>Master of Science in Computer Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number and Title</td>
</tr>
<tr>
<td>Graduate Courses related to Computer Science</td>
</tr>
<tr>
<td>Graduate courses in computer science or a related field; all courses to be selected with student input and approved by the supervisory committee.</td>
</tr>
<tr>
<td>Culminating Activity</td>
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<tr>
<td>CS 591 Project (3-6 cr) or</td>
</tr>
<tr>
<td>CS 593 Thesis (6-9 cr)</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>

GRADUATE CERTIFICATE IN COMPUTER SCIENCE TEACHER ENDORSEMENT

Graduate Program Coordinator: Amit Jain
City Center Plaza, Room 364
(208) 426-5766 (phone)
ajain@boisestate.edu (email)

General Information

Students who complete this program and who hold an Idaho State Teaching Certificate will be eligible to apply for the Idaho State Computer Science Teacher Endorsement. This graduate certificate is intended for students who want to develop professional skills and knowledge to successfully teach computer science in high school. The program will enable students to develop expertise to teach computer science courses in high school, including "Exploring Computer Science" and "AP Computer Science Principles."

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A brief letter of intent regarding interest in pursuing the Computer Science Teacher Endorsement.
3. A current résumé detailing work and educational background.
4. One letter of recommendation from a principal or school administrator.
Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CS 501 Computer Science Principles</td>
<td>3</td>
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<tr>
<td>CS 503 Teaching and Learning Computer Science I</td>
<td>5</td>
</tr>
<tr>
<td>CS 505 Teaching and Learning Computer Science II</td>
<td>4</td>
</tr>
<tr>
<td>CS 518 Inclusive Strategies for Teaching Computer Science to Women and Minorities</td>
<td>2</td>
</tr>
<tr>
<td>CS 321 Data Structures</td>
<td>6</td>
</tr>
<tr>
<td>CS 316 Introduction to Web Development</td>
<td>4</td>
</tr>
<tr>
<td>CS 517 Mobile Application Development</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

Course Offerings

CS—Computer Science

CS 501 COMPUTER SCIENCE PRINCIPLES (3-0-3)(SU). Introduction to the central ideas, practices and impact of computer science and computational thinking. Covers the big ideas in computer science: creativity, abstraction, data and information, algorithms, programming, the Internet, and global impact. Computational thinking practices: connecting computing, creating computational artifacts, abstracting, analyzing problems and artifacts, communicating, and collaborating. In-depth projects using at least one visual and one text-based programming language. Adapting content to high school courses. PREREQ: Admission to Master of Science in STEM Education or Graduate Certificate in Computer Science Teacher Endorsement.

CS 503 TEACHING AND LEARNING COMPUTER SCIENCE I (4-3-5) (F). Problem solving and object-oriented programming. Software development process. Data and expressions, conditionals and loops, arrays and lists, and classes and interfaces. Introduction to graphical user interfaces and UML diagrams. Approaches and techniques to teach CS I material in grades 6-12. PREREQ: Admission to Master of Science in STEM Education or Graduate Certificate in Computer Science Teacher Endorsement.

CS 505 TEACHING AND LEARNING COMPUTER SCIENCE II (4-0-4) (S). Program correctness, testing and analysis of time and space complexity. Graphical user interfaces. Object-oriented programming and design, including hierarchy and inheritance. Basic data structures: lists, collections, stacks and queues. Basic searching and sorting. Approaches and techniques to teach CS II material in grades 6-12. PREREQ: Admission to Master of Science in STEM Education or Graduate Certificate in Computer Science Teacher Endorsement.

CS 507 COMPUTER FOUNDATIONS FOR COMPUTATIONAL SCIENCE (3-0-3)(F/S). Introduction to the basic techniques, tools and principles of writing high-quality code. In scientific computing, Topics include: overview of relevant compiled and interpreted languages, data structures, algorithms, complexity of algorithms, sorting and searching, writing, testing, and debugging scientific code, profiling and improving performance, portability and scalability. PREREQ: Regular admission to the Computational Science and Engineering emphasis of the Doctor of Philosophy in Computing program or PERM/INST.

CS 510 DATABASES (3-0-3)(S). Foundations of database management systems. Database models: relational, object and other models. Database design: entity relationship modeling, logical relational schema design, physical design, functional dependencies and normalization, and database tuning. Database application development using database interfaces embedded in host languages. PREREQ: CS 321 or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 512 ADVANCED TOPICS IN DATABASES (3-0-3)(F/S). Parallel and distributed database system architectures, distributed database design, client/server database systems. Selected topics from new developments in: extended relational databases, multimedia databases, information retrieval systems, object-oriented databases, temporal databases. PREREQ: CS 410 or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 516 INTRODUCTION TO WEB DEVELOPMENT (3-0-3)(F/S). An introduction to the technologies used for client-side and server-side web development. Learn fundamentals behind competing web technologies, best practices for design and usability, and build rich, dynamic, n-tier secure web applications. Tools used are mainly open source such as PHP, Javascript, XML, HTML, CSS, MySQL, and the Apache web server. PREREQ: Admission to the MS in STEM Education or GC in Computer Science Teacher Endorsement program, and CS 505.

CS 517 MOBILE APPLICATION DEVELOPMENT (3-0-3)(F/S). A project-intensive course on mobile development using either iOS or Android as a platform. Overview of mobile platforms and their characteristics, mobile interface design and best practices using such technologies as GPS, camera, persistence, notifications and others. Platform will be announced before the beginning of each semester. PREREQ: Admission to the MS in STEM Education or GC in Computer Science Teacher Endorsement program, and CS 505.

CS 518 INCLUSIVE STRATEGIES FOR TEACHING COMPUTER SCIENCE TO WOMEN AND MINORITIES (2-0-2)(SU). Readings and discussions of methodologies and teaching CS to women and minorities in group settings. (Pass/Fail.) PREREQ: Admission to Master of Science in STEM Education or Graduate Certificate in Computer Science Teacher Endorsement.


CS 531 ADVANCED PROGRAMMING LANGUAGES (3-0-3)(F/S). Advanced topics in programming-language theory, design, and implementation. Topics include: data types; binding, scope, and extent; abstraction, extensibility, and control mechanisms; formal semantics and program verification. Emphasis on alternative programming-language paradigms. PREREQ: CS 354 or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 533 INTRODUCTION TO DATA SCIENCE (3-0-3)(F). Foundational paradigms, techniques, and tools for data science. Formulating tractable research questions, identifying relevant data, designing and carrying out analyses, and presenting results. Best practices for storing and managing data, source code, analysis scripts, and results in data science workflows. Efficient management of and computation over medium-sized data sets. Projects and methods drawn from a variety of applications. PREREQ: CS 321 and MATH
CS 534 MACHINE LEARNING (3-0-3)(S). Foundation of machine learning through real data applications. Topics include: supervised techniques such as logistic regression, support vector machine (with kernels), classification tree; unsupervised learning techniques such as clustering algorithms, association rule mining algorithms and outlier detection techniques; advanced machine learning techniques such as boosting algorithms, graphical models and dimensionality reduction methods. Equal emphasis will be given to theory and applications. PREREQ: CS 533.

CS 535 LARGE-SCALE DATA ANALYSIS (3-0-3)(F)(Odd Years). Covers algorithms and infrastructures for managing large-scale data, applying efficient algorithms based on MapReduce and other paradigms using current software packages for distributed data analysis. Storage of large-scale data using distributed file systems and distributed databases. Identifying and handling common pitfalls in large-scale data analysis. COREQ: CS 533.

CS 536 NATURAL LANGUAGE PROCESSING (3-0-3)(Odd Years). Introduces probability theory, information theory, and linguistics and goes into depth on machine learning techniques and tasks applied to language data. Generative and discriminative classification and their application to language modeling, syntactic parsing, sequence tagging, and lexical semantics. PREREQ: Regular admission into Master of Science in Computer Science or regular admission into Doctor of Philosophy in Computing.

CS 537 INTRODUCTION TO INFORMATION RETRIEVAL (3-0-3)(F) (Odd Years). Introduction to fundamental concepts and terminology related to Information Retrieval (IR) and design methodologies and issues of IR applications. Covers central IR topics including text processing, search, ranking, indexing, classification/clustering, fundamental IR models (e.g., Boolean, Vector Space, and Probabilistic models), and evaluation strategies. PREREQ: Regular admission into Master of Science in Computer Science or regular admission into Doctor of Philosophy in Computing.

CS 538 RECOMMENDER SYSTEMS AND ONLINE PERSONALIZATION (3-0-3)(S)(Odd Years). Introduces foundational principles and current research in recommendation and personalization: User modeling, content-based and collaborative filtering techniques for item recommendation, offline and online evaluation, human factors, and ethical issues in recommendation and personalized computing. PREREQ: CS 321 or regular admission into Master of Science in Computer Science or regular admission into Doctor of Philosophy in Computing.

CS 539 SOCIAL MEDIA MINING (3-0-3)(F)(Even Years). An introduction to fundamentals of social networks and social media analysis and mining. Topics include graph essentials and graph mining, properties of real-world networks, social network generative models, information diffusion, link prediction, community mining, and user behavior analytics. PREREQ: CS 321 or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 541 (ECE 532) COMPUTER ARCHITECTURE (3-0-3)(S). Structure of computer systems using processors, memories, input/output (I/O) devices as building blocks. Computer system instruction set design and implementation, including memory hierarchies, microprogramming, pipelining and multiprocessors. Issues and tradeoffs involved in the design of computer system architectures with respect to the design of instruction sets. Applications of hardware description languages (HDL) in the design of computer systems. May be taken for CS or ECE credit, but not both. PREREQ for CS 541: regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 542 QUANTITATIVE COMPUTER ARCHITECTURE (3-0-3)(S). Quantitative analysis on computer architectures and software optimizations with static and dynamic simulation techniques. Design implications of memory latency and bandwidth limitations. Performance enhancement via within-processor and between-processor parallelism. In particular, the study of pipelining, instruction-level parallelism, memory hierarchy design, storage systems, and multiprocessors are emphasized. PREREQ: CS 441 or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 546 COMPUTER SECURITY (3-0-3)(S). Computer and network security. Public-key and private-key cryptography, authentication, digital signatures, key exchange, key management, certification authorities, and distributed trust models. File system security, Mail system security, and Web security. Intruders, Trojan Horses, and viruses. Covert channels. Projects will involve using currently available security tools. PREREQ: CS 453 or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 550 PROGRAMMING LANGUAGE TRANSLATION (3-0-3)(S)(Odd Years). Theory and practice of formal language translation, experience with compiler construction tools under UNIX. Students work on significant projects. PREREQ: CS 253 and CS 321 and CS 354, or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 551 ADVANCED TOPICS IN COMPILATION (3-0-3)(F)(S). Code generation, analysis, and optimization. Projects will use a simple framework for performing analysis and optimizations at the assembly level. PREREQ: CS 450 or CS 550 or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 554 ADVANCED OPERATING SYSTEMS (3-0-3)(S). Operating system kernels: process management, memory management, file systems, security and protection. Advanced concurrent programming techniques. Operating system design and construction techniques. Modifying operating system code to observe behavior, add new functionality and run experiments. Support for soft and hard real-time systems, big data, cybersecurity, virtual machines and other domains. PREREQ: CS 453, or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 555 DISTRIBUTED SYSTEMS (3-0-3)(S)(Even Years). Principles and paradigms of distributed systems. Communication, processes, naming, synchronization, consistency and replication, fault tolerance and security. In-depth coverage of Remote Procedure Call (RPC), Remote Method Invocation (RMI) and socket programming. Survey of major distributed systems. Several software projects. PREREQ: CS 253 and CS 321 or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 557 ARTIFICIAL INTELLIGENCE (3-0-3)(F)(Even Years). Course will include a survey of some of the following topics, plus a project: Principles of knowledge-based search techniques; automatic deduction; knowledge representation using predicate logic, semantic networks, connectionist networks, frames, rules; applications in problem solving, expert systems, game playing, vision, natural language understanding, learning, robotics; LISP programming. PREREQ: CS 321 and CS 354, or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.


CS 564 VISUALIZATION TECHNIQUES (3-0-3)(F)(Even years). Fundamentals of visualization including data sources, representations, and graphical integrity. Visualization of scalars, vectors, tensors, flows and high-dimensional data. Visual perception and color theory. Applications from medical imaging, social media, sports, and seismology domains. CS 464 or MATH 275 or MATH 301 recommended. PREREQ: CS 321 or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.
CS 565 (MATH 565) NUMERICAL METHODS I (3-0-3)(F).
Approximation of functions, solutions of equations in one variable and of linear systems. Polynomial, cubic spline, and trigonometric interpolation. Optimization. Programming assignments. May be taken for CS or MATH credit, but not both. PREREQ: MATH 365 or PERM/INST.

CS 566 (MATH 566) NUMERICAL METHODS II (3-0-3)(S).
Matrix theory and computations including eigenvalue problems, least squares, QR, SVD, and iterative methods. The discrete Fourier transform and nonlinear systems of equations. Programming assignments. May be taken for CS or MATH credit, but not both. PREREQ: CS 565 or MATH 465 or MATH 565 or PERM/INST.

CS 567 APPLIED CRYPTOGRAPHY (3-0-3)(F).
A study of how modern cryptographic protocols and schemes work, and how they are used in real-world applications. Topics include stream ciphers, block ciphers, public-key cryptography, RSA cryptosystem, public-key cryptosystems based on the discrete logarithm problem, digital signatures, and hash functions. PREREQ: Regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 569 HUMAN COMPUTER INTERACTION (3-0-3)(S)(Odd Years).
Science-based theories and models of user interface design and use. Graphical user interfaces for desktop, web, and mobile devices. Usability assessment by quantitative and qualitative methods. Task analysis, usability tests, expert reviews, and continuing assessments of working products by interviews, surveys, and logging. Building of low-fidelity paper mockups, and a high-fidelity prototype using contemporary tools and programming environments. PREREQ: Regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 572 OBJECT-ORIENTED DESIGN PATTERNS (3-0-3)(F)(Even Years).
Reviews object-oriented design principles, explains the goals and form of design patterns, and examines several well-known patterns. PREREQ: CS 321 or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 573 ADVANCED SOFTWARE ENGINEERING (3-0-3)(F).
A study of software development processes and methodologies. Topics include: software process models, requirements analysis, design principles, formal specification, validation and verification techniques, and software metrics. PREREQ: CS 471 or regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 574 ADVANCED SOFTWARE QUALITY (3-0-3)(F).
Study of verification techniques beyond testing and static analysis, including model checking and symbolic execution. Integrates formal specification of program requirements. Illustrates application of verification techniques to concurrent programs. Software-quality literature review and exploration of advanced software quality topics. PREREQ: Regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 575 SOFTWARE SECURITY (3-0-3)(S)(Even Years).
Principles, techniques, and best practices for developing secure software. Emphasizes the security ramifications for different activities of software development processes. Topics include security policies, security requirements analysis, threat modeling, secure design, secure programming, and security testing and verification. PREREQ: Regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

CS 577 SOFTWARE MAINTENANCE AND EVOLUTION (3-0-3)(S)(Odd Years).
Exploration of leading research in software maintenance and evolution. Topics include concept location, impact analysis, traceability link recovery, bug triaging, developer recommendations, program comprehension, application of information retrieval in software maintenance, application of data mining and machine learning in software engineering, software repositories mining, reproducibility of experiments, and user studies. PREREQ: Regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.
Computing Doctorate

College of Arts and Sciences | College of Engineering

DOCTOR OF PHILOSOPHY IN COMPUTING

Graduate Program Co-Director: Tim Andersen
Graduate Program Co-Director: Jodi Mead
Program Administrator: Keela Cooper
City Center Plaza, Room 364
(208) 426-5767 (phone)
computingphd@boisestate.edu (email)
https://computing.boisestate.edu/ (website)

Participating Departments

• Biological Sciences
• Chemistry and Biochemistry
• Civil Engineering
• Computer Science
• Electrical and Computer Engineering
• Geosciences
• Materials Science and Engineering
• Mathematics
• Mechanical and Biomedical Engineering
• Physics

General Information

The computing program is designed to provide students, through scholarship and research, the computational knowledge and skills to address significant technical challenges in one of the following three emphasis areas:

• Computational Science and Engineering: Focus on construction of mathematical models and quantitative analysis techniques and use of computers to analyze and solve scientific and engineering problems.
• Computer Science: Focus on theory, design, development, and application of computer and software systems, and the development of algorithms for data search, manipulation, and analysis.
• Cyber Security: Focus on protection of computers, networks, programs, industrial control systems, and data from unintended or unauthorized access, change, or destruction.

Application Deadlines

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

• January 15 (fall priority and funding consideration)
• April 15 (fall)
• November 1 (spring)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Successful completion of coursework in computer programming or other documented experience in programming.
3. A statement of purpose detailing research experience, interests, goals, one area of emphasis and one to three PhD faculty members in the emphasis area as prospective major advisors.
4. A curriculum vitae.
5. Official Graduate Record Examinations (GRE) General Test scores. Applicants holding a Master’s degree from an accredited U.S. university may request to waive the GRE requirement.
6. Three letters of recommendation from academic or professional references. These letters should address your preparation for graduate study.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track courses approved by the supervisory committee and the program coordinator. Select one from the following three tracks: Computational Science and Engineering Computer Science Cyber Security</td>
<td>18</td>
</tr>
<tr>
<td>Additional track courses and/or elective courses approved by the supervisory committee and the program coordinator.</td>
<td>18-24</td>
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<tr>
<td>CS 691 Doctoral Comprehensive Examination</td>
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<td>CS 693 Dissertation</td>
<td>24-30</td>
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<tr>
<td>Total</td>
<td>67</td>
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</tbody>
</table>
Department of Counselor Education
College of Education

Chair: Aida Midgett
Education Building, Room 421
(208) 426-1219 (phone)
counseloreducation@boisestate.edu (email)

Graduate Faculty: Doumas, Gallo, Midgett, Miller, Moro

Graduate Degrees Offered
- Master of Arts in Counseling, Addiction Counseling Cognate
- Master of Arts in Counseling, School Counseling Cognate

General Information
The Master of Arts in Counseling prepares individuals in counseling related careers. The program is accredited by the National Council for the Accreditation of Teacher Education (NCATE) and the Northwest Commission of Colleges and Universities (NWCCU). The program meets the State Board of Occupational Licensure’s criteria for licensure as a professional counselor. The school and addiction cognates are both accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP).

Course work is offered in sequence, primarily during evenings and weekends of fall and spring semesters, with students enrolling in six to eleven credits each semester and enrolling in six to seven credits offered in the daytime and evening during the summer sessions.

Students are required to complete an Adjudication Form upon admission and yearly while enrolled. Students are required to disclose criminal background and professional licensure and/or certification standing.

Information disclosed or otherwise obtained can determine faculty decisions regarding continuation in the program, endorsement by program faculty for students to enroll in practicum and/or internship, endorsement for any field-based placement, and disclosure by program faculty to potential internship and/or other field-based site or individual supervisors.

Application Deadline
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- February 1 (Fall admission only)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admissions Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. Letter of application describing your professional experiences as they support your desire to be a counselor in a school or addiction setting, specific career goals, and reasons for your interest in this program.
Include in the letter your vision about the role of a counselor in a school or addiction setting.
3. A current résumé or curriculum vitae.
4. A writing sample is required of all applicants.
5. An on-campus pre-admission interview is required of all applicants. When attendance is an extreme hardship for the applicant, special arrangements may be made (such as a conference telephone interview or alternate site interview).
6. Three letters of recommendation supporting the applicants qualifications for a counseling program and for graduate work.
7. A criminal background check prior to placement in a school setting is required of all students, and may be required prior to placement in an addiction setting.
8. An Adjudication statement is required of each student upon acceptance and at several check points in the program.

MASTER OF ARTS IN COUNSELING
Graduate Program Coordinator Addiction Counseling:
Raissa Miller and Regina Moro
Education Building, Room 643
(208) 426-1219 (phone)
counseloreducation@boisestate.edu (email)
Graduate Program Coordinator School Counseling: Laura Gallo
Education Building, Room 643
(208) 426-1219 (phone)
counseloreducation@boisestate.edu (email)

General Information
The Master of Arts in Counseling degree consists of a minimum of sixty (60) semester hours of course work designed to prepare professionals to counsel in a variety of settings. Cognate areas include school counseling and addiction counseling. Courses promote the acquisition of the knowledge and skill development in the eight core areas listed in CACREP Standards: Professional Identity, Social and Cultural Diversity, Human Growth and Development, Career Development, Helping Relationships, Group Work, Assessment, and Research and Program Evaluation. Specific course work in each of the eight components is listed below. Students are also required to take specialty coursework in either the school counseling cognate or addiction counseling cognate. Electives offered ad hoc or in rotation are designed to maximize flexibility while reflecting current trends in counseling. The student’s culminating activity includes a written comprehensive exam and recorded evidence of skill and theory integration supported by a comprehensive portfolio demonstrating professional growth and counseling knowledge with culturally appropriate awareness. Each student works closely with a Program Advisor in preparing the portfolio.

During the semester of the Program, each student counselor is expected to participate in a group counseling experience in which students participate as group members in a small group activity, approved by the program, for a minimum of 10 clock hours over the course of one academic term.

Students have latitude in selecting internship sites to maximize their experience in line with specific career goals with at least 700 hours of internship experience in the selected cognate. Students incorporate counseling theory and knowledge into an increasingly advanced application of skills throughout the program, fine tuning an individualized counseling approach through counseling practica using digital recording, and supervised experience in the community, school, and student outreach sites.

The 60-credit Master of Arts in Counseling with cognate areas in school counseling and addiction counseling offers the core of counseling knowledge and skills that prepares graduates to become licensed professional counselors with a specialty in either school counseling or addiction counseling.
Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 501 Foundations and Ethics in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 502 Counseling Theories</td>
<td>3</td>
</tr>
<tr>
<td>COUN 504 Assessment and Testing in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 505 Counseling Skills</td>
<td>3</td>
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<tr>
<td>COUN 506 Lifespan Development</td>
<td>3</td>
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<tr>
<td>COUN 507 Career Development &amp; Vocational Counseling</td>
<td>3</td>
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<tr>
<td>COUN 509 Culturally Aware Counseling</td>
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<tr>
<td>COUN 512 Research and Program Evaluation</td>
<td>3</td>
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<tr>
<td>COUN 513 Group Counseling</td>
<td>3</td>
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<tr>
<td>COUN 514 Counseling Practicum I</td>
<td>2</td>
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<tr>
<td>COUN 516 Counseling Practicum II</td>
<td>2</td>
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<tr>
<td>COUN 526 Counseling Internship I</td>
<td>3</td>
</tr>
<tr>
<td>COUN 528 Counseling Internship II</td>
<td>3</td>
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<tr>
<td>COUN 529 Applied Evaluation of Counseling Practice</td>
<td>1</td>
</tr>
<tr>
<td>COUN 530 Suicide Prevention and Crisis Intervention for Counselors</td>
<td>2</td>
</tr>
<tr>
<td>COUN 549 Motivational Interviewing</td>
<td>1</td>
</tr>
<tr>
<td>COUN 550 Diagnosis, Assessment, &amp; Treatment Planning</td>
<td>3</td>
</tr>
<tr>
<td>COUN 551 Psychopharmacology</td>
<td>1</td>
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<tr>
<td>COUN 567 Clinical Supervision Principles and Practice</td>
<td>1</td>
</tr>
<tr>
<td>COUN 568 Seminar: Professional Counseling</td>
<td>1</td>
</tr>
<tr>
<td>COUN 690 Master’s Comprehensive Examination</td>
<td>1</td>
</tr>
</tbody>
</table>

Cognate Area (select one)

- Addiction Counseling Cognate
  - COUN 541 Addiction and the Family System
  - COUN 545 Foundations of Chemical Dependency
  - COUN 548 Addiction & Behavioral Health Assessment & Intervention

- School Counseling Cognate
  - COUN 533 Introduction to School Counseling
  - COUN 534 Counseling Children and Adolescents
  - COUN 535 Classroom Management and Counseling Students with Exceptional Needs

Electives | 4 |
Total | 60

Course Offerings

COUN—Counseling

COUN 501 FOUNDATIONS AND ETHICS IN COUNSELING (3-0-3) (SU). Provides an introduction to professional, ethical, legal, theoretical, cultural, social, and practice aspects of counseling. Students examine theories and responsibilities of counselors; professional organizations and associations; and professional preparation standards. Ethical decision-making models are introduced and explored within a counseling context. Historical, cultural and social contexts along with emerging professional issues and directions are included. PREREQ: Admission to the Master of Arts in Counseling program.

COUN 502 COUNSELING THEORIES (3-0-3) (F). Examines historical and contemporary theories of counseling to assist in student identification of personal theoretical orientation and aid in client conceptualization. PREREQ: Admission to the Counseling Program.

COUN 504 ASSESSMENT AND TESTING IN COUNSELING (3-0-3) (SU). Access theory and practice of standardized test development and procedures; applications and limitations of standardized tests; techniques of administering individual/group tests and of interpreting assessment instruments and profiles; and communication strategies with clients, parents, school personnel, and relevant professionals. PREREQ: COUN 512 or similar graduate statistics course.

COUN 505 COUNSELING SKILLS (2-2-3) (S). Orientation to basic and advanced counseling skills. Students acquire effective and ethical counseling skills through recorded role-played practice. PREREQ: COUN 501 and COUN 502.

COUN 506 LIFESPAN DEVELOPMENT (3-0-3) (F/S). Provides an overview of lifespan development for counselors-in-training. Covers theories of individual and family development, both typical and atypical, across the lifespan. Students practice conceptualizing individuals from a developmental lens, considering biological, neurological, and physiological, systemic, and environmental factors that contribute to development and functioning. Students also learn strategies for promoting resilience and wellness across the lifespan. Cultural and individual differences are explored.

COUN 507 CAREER DEVELOPMENT AND VOCATIONAL COUNSELING (3-0-3) (F/S/SU). Provides an overview of the major career development theories, vocational guidance and occupational/educational information sources and systems. Career development program planning, resources computerized information systems, and evaluation is included. Emphasis is placed on how career counseling and vocational guidance are practiced by professional counselors in school and agency settings. PREREQ: Admission to the Master of Arts in Counseling program.

COUN 509 CULTURALLY AWARE COUNSELING (3-0-3) (S/SU). Theoretical course with an experiential component to develop awareness, knowledge, and skills for counselors-in-training preparing to work in a pluralistic society. PREREQ: COUN 502 or PERM/INST.

COUN 512 RESEARCH AND PROGRAM EVALUATION (2-2-3) (S). Introduces students to quantitative, qualitative, and mixed methods research methods for the purposes of critiquing research and informing counseling practice. Students also learn statistical methods and other data analysis strategies for evaluating counseling and program outcomes. PREREQ: COUN 501.

COUN 513 GROUP COUNSELING (2-2-3) (F/S/SU). Students will focus on the concepts and skills necessary to understand and lead counseling groups in schools and other settings. PREREQ: Completion of COUN 505 with grade of at least B.

COUN 514 COUNSELING PRACTICUM I (2-1-2) (F). Review theory and culturally competent skills integration prior to participating in closely supervised counseling experiences through modeling, peer counseling, ethical review, and audio and/or video taping. PREREQ: COUN 501, COUN 505 with grade of at least B, COUN 550, COUN 509.

COUN 516 COUNSELING PRACTICUM II (1-2-2) (S). Participation in closely supervised counseling experiences (audio and/or video-taping required) with emphasis in student’s area of specialization or interests focusing on ethical decision-making and culturally competent strategies. PREREQ: COUN 514 with a grade of at least B.

COUN 517 FAMILY ISSUES IN LATER LIFE (3-0-3) (S) (Even years). Overview of gerontology presented by examining major issues related to family issues of aging. Content includes development and transition in later life, wellness in later life, common issues, and appropriate family counseling and consulting strategies.

COUN 518 COUNSELING ISSUES WITH OLDER ADULTS (3-0-3) (S) (Odd years). Focus on intervention strategies for common later life impairments. Application of theory, research, and practice to gerontological counseling and wellness.

COUN 525 CONSULTATION (1-2-2) (F/S/SU). Knowledge and skills consulting with individuals, groups, and systems. Practices and procedures of consultation where students demonstrate relevant skills in both simulated and internship-based situations. PREREQ: COUN 505 and 509 or PERM/INST.

COUN 526 COUNSELING INTERNSHIP I (1-4-3) (F/S). Students apply their skills, training, and knowledge with increasing autonomy as primary supervision shifts toward an onsite counseling supervisor. Students are observed and evaluated as they engage in a wide range of counseling-related activities.
COUN 512 or equivalent graduate statistics course.

Addresses the multigenerational impact of chemical and behavioral addiction on COUN 541 ADDICTION AND THE FAMILY SYSTEM (2-0-2)(SU).

Admission to the Master of Arts in Counseling program. educational trends, and the importance of multidisciplinary teams. PREREQ: COUN 512 or equivalent graduate statistics course.

COUN 528 COUNSELING INTERNSHIP II (1-4-3)(F/S). In this culminating component of internship, student assumes all functions of a counselor in his/her site while under site-based (primary) and university supervision, providing the range of counseling services from crisis intervention to promotion of personal development and environmental enhancement. (Pass/ Fail.) PREREQ: Recommendation of COUN 526 Supervisors. COREQ: COUN 568.

COUN 529 APPLIED EVALUATION OF COUNSELING PRACTICE (1-0-1) (F/S). Applies principles of counseling practice evaluation with an emphasis on evidence-based practice and accountability. Students evaluate their counseling practice at their internship site under the supervision of the course instructor. PREREQ: COUN 512 or equivalent graduate statistics course.

COUN 530 SUICIDE PREVENTION AND CRISIS INTERVENTION FOR COUNSELORS (2-0-2)(F). Examines the diverse crisis situations counselors may experience in a variety of settings. Presents theoretical perspectives and techniques in crisis intervention and crisis counseling. Covers the history, models, current trends, and systemic issues of crisis counseling. PREREQ: Admission to the Master of Arts in Counseling program.

COUN 531 COUNSELING PRACTICUM INTENSIVE (1-4-3)(F/S). A supervised skill review and experientially intensive practicum that may be required of a student needing additional time on skill development before advancing to Internship. PREREQ: Permission of department chair and faculty.

COUN 532 COUNSELING INTERNSHIP INTENSIVE (1-4-3)(F/S). A supervised skill review and experientially intensive internship that may be required of a student needing additional time on skill development before enrolling in COUN 528 Counseling Internship II. PREREQ: PERM/CHAIR.

COUN 533 INTRODUCTION TO SCHOOL COUNSELING (3-0-3)(F/S)(SU). Introduces the organization, planning, management, and evaluation of comprehensive school counseling programs. Topics include appropriate roles and functions of school counselors at elementary, middle, and high school levels, coordination of professional services, and ethical and legal considerations. Emphasis on the Idaho Comprehensive School Counseling Program Model and the ASCA National Model. PREREQ: Admission to Counseling Program or PERM/INST.

COUN 534 COUNSELING CHILDREN AND ADOLESCENTS (3-0-3)(F/S)(SU). An overview of developmentally appropriate approaches to counseling children and adolescents in school and mental health settings. Addresses individual and group work, expressive and talk therapies, assessment of treatment progress, working with parents and teachers, and ethical and legal considerations in working with this population. PREREQ: COUN 505 or PERM/INST.

COUN 535 CLASSROOM MANAGEMENT AND COUNSELING STUDENTS WITH EXCEPTIONAL NEEDS (2-0-2)(SU). Introduces classroom management techniques appropriate for school counselors, including, activities, techniques, strategies, and theories related to effective classroom management. Explores etiologies of mild/moderate disabilities, current educational trends, and the importance of multidisciplinary teams. PREREQ: Admission to the Master of Arts in Counseling program.

COUN 541 ADDICTION AND THE FAMILY SYSTEM (2-0-2)(SU). Addresses the multigenerational impact of chemical and behavioral addiction on the family system, as well as the role family systems can play in the treatment and recovery process. Covers risk and protective factors, stages of change, and continuum of care considerations within the family context. PREREQ: COUN 545 or PERM/INST.

COUN 542 COUNSELING PRACTICUM (1-4-3)(F/S). A supervised skill review and experientially intensive practicum that may be required of a student needing additional time on skill development before advancing to Internship. PREREQ: Permission of department chair and faculty.


COUN 545 FOUNDATIONS OF CHEMICAL DEPENDENCY (3-0-3)(F/S). An overview of the field/ foundations of chemical dependency, including theories of prevention, addiction, treatment approaches, the physiology and psychology of addiction, and an in-depth understanding of the effects of different drugs on the individual and society, including physiological, biological, spiritual, cultural, and behavioral effects. PREREQ: PERM/INST.

COUN 547 CHEMICAL ADDICTIONS AND VIOLENCE PREVENTION (2-0-2)(SU). Introduction to professional, ethical, legal, and practical aspects of chemical addictions and violence prevention (primary and secondary) in the schools and other settings (e.g., adolescent treatment). Examination of current research and available curriculum models, current identification and intervention approaches, and effective prevention programming. Historical and social contexts (e.g., Safe and Drug Free Schools and communities initiative) also included. PREREQ: Graduate standing.

COUN 548 ADDICTION AND BEHAVIORAL HEALTH ASSESSMENT AND INTERVENTION (3-0-3)(S). Prepares future licensed professional counselors to work with clients with addiction and behavioral health issues. Includes theories/approaches to working with clients with addiction and behavioral health issues, bio-psycho-social assessment, and evidence based counseling techniques and interventions. PREREQ: Admission to Counseling Program or PERM/INST.

COUN 549 MOTIVATIONAL INTERVIEWING (1-0-1)(F/S). Provides a basic understanding of motivational interviewing, the trans-theoretical model, harm reduction, screening, and brief intervention. PREREQ: Admission to the Master of Arts in Counseling program or PERM/INST.

COUN 550 DIAGNOSIS, ASSESSMENT, AND TREATMENT PLANNING (3-0-3)(F/S). Examines concepts of “mental disorders,” DSM classification systems, and the diagnostic benefits and diagnostic problems inherent in such systems. An introduction and overview of the major psychopathological syndromes of adolescents and adults (especially in the area of Co-morbidity of Substance Abuse/Dependence and other DSM 5 diagnoses) to facilitate appropriate use of assessment-diagnostic-treatment links (including treatment planning). PREREQ: PERM/INST.

COUN 551 PSYCHOPHARMACOLOGY (1-0-1)(SU). Examines common psychopharmacology issues covering a wide range of disorders.

COUN 555 SPIRITUALITY AND COUNSELING (2-0-2)(S)(Even years). Investigation of the role that spirituality plays in the well-being of clients and counselors including the extent to which the spiritual dimension affects personal development, mental and emotional health, behavioral competence and responsibility, and a sense of well-being. Spiritual experiences, beliefs, and practices found among various cultures will be explored as well as religious responses to universal questions about human life. Ethical issues regarding counseling and spirituality will be included.

COUN 556 GRIEF AND LOSS COUNSELING (1-0-1)(SU)(Even years). Explores the grieving process people experience after the death of a loved one. It also focuses on the losses and trauma people experience during the dying process. Much of the content will also focus on losses people experience throughout their lives.

COUN 558 DEPRESSION (1-0-1)(F/S). An overview of the symptoms and underlying causal factors associated with the range of depression-based disorders. Depression-based problems are discussed in terms of the interactions between cognitive, behavioral, affective factors, and related treatments are presented. (Pass/Fail.)

COUN 559 FEARS AND PHOBIAS (1-0-1)(F/S). An overview of the symptoms and underlying causal factors associated with the range of anxiety-
COUNSELOR EDUCATION

based problems. Anxiety-based problems are discussed in terms of the interactions
cognitive, behavioral, affective factors, and related treatments are
presented. (Pass/Fail.)

COUN 567 CLINICAL SUPERVISION PRINCIPLES AND PRACTICE
(1-0-1)(F/S). Theory and skill development for practitioners who are supervising
interns and/or professionals in school, agency, and other settings. Topics include
ethical issues in clinical supervision, models and best practices, documentation,
and troubleshooting problematic dynamics. PREREQ: PERM/INST.

COUN 568 SEMINAR: PROFESSIONAL COUNSELING (0-1-1)(F/S).
Discussions and research into the evolving culturally competent role of
professional counselors in all settings, emphasizing ethical decision-making and
licensure and certification considerations. COREQ: COUN 528.

COUN 571 (MHLTHSCI 571)(SOCWRK 571) FUNDAMENTALS OF
HEALTHY AGING (3-0-3)(F,SU). Overview of gerontology presented by
examining major issues related to aging. Content includes theories of aging; the
impact of an aging population; and future implications at local, national, and
international levels. May be taken for COUN, MHLTHSCI or SOCWRK
credit, but not more than once.

COUN 602 ADVANCED THEORIES AND RESEARCH IN
COUNSELING (3-0-3)(F/S). Theoretical bases for counseling efficacy,
applicability to multicultural populations, and ethical/legal considerations.
Various methods for evaluating counseling effectiveness, research base for
existing counseling theories, and effectiveness of models and treatment
strategies of crisis, disasters, and other trauma-causing events. Doctoral
students engage in curriculum development, instruction, videotape review,
tutoring, and grading of students in corresponding Master’s level course.
PREREQ: COUN 502 or equivalent.

COUN 603 INSTRUCTIONAL THEORY IN COUNSELOR EDUCATION
AND SUPERVISION (1-0-1)(F/S). Prepares the student for the role of
professor in counselor education. An examination of instructional theories and
methods relevant to counselor education including models and methods of
appraisal is explored. COREQ: COUN 602.

COUN 606 ADVANCED LIFESPAN DEVELOPMENT (3-0-3)(F/S).
Study of theoretical constructs related to developmental processes, both typical
and atypical, and analysis of developmentally based behavior patterns across the
age spectrum (birth to death) through a variety of contemporary cultures and
beliefs. Doctoral students engage in curriculum development, instruction,
and grading of students in corresponding Master’s level course. PREREQ: COUN
506 or equivalent.

COUN 607 ADVANCED CAREER DEVELOPMENT AND VOCATIONAL
COUNSELING (3-0-3)(F/S). Different theoretical and applied approaches
to career development and vocational counseling as well as increase awareness,
knowledge, and skills related to ethical, multicultural, and social justice issues
related to career and vocational counseling. Doctoral students engage in
curriculum development, instruction, and grading of students in corresponding
Master’s level course. PREREQ: COUN 507 or equivalent.

COUN 609 ADVANCED CULTURALLY AWARE COUNSELING (3-0-3)
(F/S). Advocacy models and current multicultural issues as they relate to
social change theories. Also student will learn models, leadership roles, and
strategies for responding to community, national, and international crisis and
disasters, as well as understand current topical and political issues in counseling
and how those issues affect the daily work of counselors and the counseling
profession. Doctoral students engage in curriculum development, instruction,
and grading of students in corresponding Master’s level course. PREREQ:
COUN 509 or equivalent.

COUN 610 ADVANCED LEADERSHIP AND ADVOCACY IN
COUNSELING (2-0-2)(F/S). Examines the theories, research, and processes
that influence leadership, and advocacy within the profession. Fosters the
development of specific philosophies, skills, and intervention strategies required
to perform effectively in these functions. Doctoral students engage in curriculum
development, instruction, and grading of students in a Master’s level Advocacy
course. PREREQ: COUN 602.

COUN 611 ADVANCED FAMILY SYSTEMS (3-0-3)(F/S). Different
theoretical approaches to couple and family counseling and increase awareness,
knowledge, and skills related to multiculturalism and social justice applied to
family systems. Doctoral students engage in curriculum development, instruction,
and grading of students in corresponding Master’s level course. PREREQ:
COUN 602.

COUN 612 RESEARCH AND PROGRAM EVALUATION IN
COUNSELING (3-0-3)(F/S). Overview of research methods, program
evaluation, and statistics for counselors. Topics include design, implementation,
and analysis of quantitative and qualitative research; models and methods of
assessment and use of data in program evaluation; and models and methods of
instrument design. Doctoral students engage in curriculum development,
instruction, and grading of students in corresponding master’s level courses and/or
other master’s level research courses. PREREQ: COUN 602.

COUN 613 ADVANCED GROUP COUNSELING (3-0-3)(F/S).
Concepts and skills necessary to understand and lead counseling groups in
schools and other settings. Doctoral students will engage in curriculum
development, instruction, role-plays, supervision, and providing feedback to
students in the corresponding Master’s level course. PREREQ: COUN 513 or
equivalent.

COUN 614 ADVANCED PRACTICUM I (2-0-2)(F/S). Supervised
practice of 50 clock-hours (20 direct/30 indirect). Student practices advanced
counseling skills in relevant areas such as teaching, supervision, and counseling.
PREREQ: COUN 514 and COUN 516, or equivalent.

COUN 616 ADVANCED PRACTICUM II (2-0-2)(F/S). Supervised
practice of 50 clock-hours (20 direct/30 indirect). Student practices advanced
counseling skills in relevant areas such as teaching, supervision, and counseling.
PREREQ: COUN 614.

COUN 620 SCHOLARSHIP IN COUNSELOR EDUCATION AND
SUPERVISION (2-0-2)(F/S). Examines professional scholarship and assists
students with developing a scholarly identity and research agenda. Focuses on
submission and publication of manuscripts to peer-reviewed journals, submission
of scholarly presentations for presentation at professional conferences, and will
include an overview to the process of grant writing. PREREQ: COUN 602.

COUN 624 ADVANCED SUPERVISION AND CONSULTATION (3-0-3)
(F/S). Doctoral students learn theories and principles pertaining to the
practice of supervision and consultation. Doctoral students teach the Master’s
level practicum course as well as provide individual and triadic supervision to
Master’s level counselor education students. PREREQ: COUN 614 and COUN
616, or equivalent.

COUN 626 DOCTORAL INTERNSHIP I (3-0-3)(F/S). Culminating
internship in which the student assumes all functions of a counselor and a
supervisor while under faculty supervision, providing the range of counseling
services from crisis intervention to promotion of personal development and
environmental enhancement (300 clock hours). (Pass/Fail.) PREREQ: COUN
526 or equivalent.

COUN 628 DOCTORAL INTERNSHIP II (3-0-3)(F/S). Culminating
internship in which the student assumes all functions of a counselor and a
supervisor while under faculty supervision, providing the range of counseling services from crisis intervention to promotion of personal development and environmental enhancement (300 clock hours). (Pass/Fail.) PREREQ: COUN 626.

COUN 664 PROFESSIONAL ORIENTATION TO COUNSELING
LEADERSHIP (3-0-3)(F/S). Purpose, theoretical framework and models,
roles and relationships, and legal/ethical/multicultural issues associated with
supervision and consultation. Additionally, the course will cover major roles,
responsibilities, and activities of counselor educators, instructional theory and
methods, and ethical/legal/multicultural issues associated with teaching and
counselor preparation training. Also, issues related theories and skills of leadership
are addressed. PREREQ: PERM/INST.
Department of Criminal Justice

School of Public Service

Library Building, Room 166
(208) 426-3407 (phone)
crimjust@boisestate.edu (email)

Graduate Faculty: Bostaph, Gann, Giacomazzi, Gillespie, Jorgensen, King, Lee, Wells

Graduate Degree Offered

- Master of Arts in Criminal Justice

MASTER OF ARTS IN CRIMINAL JUSTICE

Graduate Program Coordinator: Lisa Growette Bostaph
Library Building, Room 166A
(208) 426-3407 (phone)
cjgradprogram@boisestate.edu (email)

General Information

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

Application Deadlines

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- February 15 (priority summer/fall)
- April 1 (summer/fall)
- October 1 (spring)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree in criminal justice or related social or behavioral science from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A statement of purpose describing goals, reasons for seeking admission, and choice of department for graduate education.
3. Completion of an undergraduate criminal justice theory course, introductory criminal justice course, and statistics course.
4. Applicants with less than a 3.00 cumulative GPA may still apply to the program with submission of Graduate Record Examination (GRE) scores of 152 or higher on each of the Verbal and Quantitative Reasoning sections and a score of 4 or higher on the Analytical Writing section.
5. Three letters of recommendation. If the applicant graduated in the last five years, they should all be from professors/instructors. In not, letters should come from professional references.

Degree Requirements

The requirements for the Foundation Series, Seminar Series, and elective components of the degree are explained in the degree box below. A master’s thesis or comprehensive examination must be completed prior to the award of the degree. The comprehensive examination is the default culminating activity for all students.

The comprehensive examination requires students to answer six essay questions covering all Foundation Series courses and one Seminar Series course of the student’s choice and is offered in both the fall and spring semesters. The comprehensive examination involves a semester-long preparatory and examination course. Students are provided a take-home examination covering two of the six questions every five weeks over the course of a single semester. The examination is a Pass/Fail grade requiring students to achieve a Pass on all exam questions in order to pass the entire examination. Three hours of graduate student will be awarded upon successful completion of the comprehensive examination. It is expected that students will sit for the comprehensive examination in their semester of graduation, but the comprehensive examination cannot be taken until after the student has successfully completed all Foundation Series courses and at least one Seminar Series course.

Students who wish to undertake a thesis as their culminating activity must submit an Application for Thesis as Culminating Activity form to the Graduate Coordinator. Contact the criminal justice office to obtain this form. An oral examination is required for both the proposal and final thesis defenses. In addition, proposal and final defenses must occur in separate semesters. Six hours of graduate study will be awarded upon successful completion of the thesis. However, the final defense of a thesis cannot occur until after the student has successfully completed all Foundation Series courses. Maintenance of a cumulative 3.00 average GPA is required for both continuation in and graduation from the program.

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<thead>
<tr>
<th>Master of Arts in Criminal Justice</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Foundation Series</strong></td>
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<tr>
<td>The following core courses are required of all students. It is recommended that these courses be taken prior to other graduate work.</td>
<td></td>
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<tr>
<td>CJ 501 Crime and Criminal Justice</td>
<td>3</td>
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<tr>
<td>CJ 503 Criminal Justice Research</td>
<td>3</td>
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<tr>
<td>CJ 504 Statistics for Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 506 Theories of Crime</td>
<td>3</td>
</tr>
<tr>
<td>CJ 513 Victimology</td>
<td>3</td>
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<tr>
<td><strong>Seminar Series</strong></td>
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<tr>
<td>Students are required to complete nine credits from the following list of courses. It is recommended that core courses be completed prior to enrolling in seminar series courses.</td>
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<tr>
<td>CJ 502 Seminar: Organization and Management of Criminal Justice</td>
<td>9</td>
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<tr>
<td>CJ 505 Seminar: Law and Social Control</td>
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<td>CJ 507 Seminar: Issues in Contemporary Policing</td>
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<td>CJ 508 Seminar: The Legal Process</td>
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<td>CJ 509 Seminar: Juvenile Justice</td>
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<td>CJ 512 Seminar: Gender and Justice</td>
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<td>CJ 514 Seminar: Contemporary Issues in Corrections</td>
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<tr>
<td>CJ 515 Seminar: Critical Issues in Criminal Justice</td>
<td></td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>3-6</td>
</tr>
<tr>
<td>Electives may be taken anywhere in the university but must be approved by the student's graduate committee and the CJ graduate coordinator. The student must demonstrate, to the committee's satisfaction, how the electives are to fit into the student's program of study and career objectives. Boise State graduates with any listed course in undergraduate work which applied to the undergraduate degree may not apply that course to the graduate degree.</td>
<td></td>
</tr>
<tr>
<td><strong>Culminating Activity</strong></td>
<td>3-6</td>
</tr>
<tr>
<td>CJ 593 Thesis (6 cr) or</td>
<td></td>
</tr>
<tr>
<td>CJ 690 Master's Comprehensive Examination (3 cr)</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>33</td>
</tr>
</tbody>
</table>
Course Offerings

CJ—Criminal Justice

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

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

CJ 503 CRIMINAL JUSTICE RESEARCH (3-0-3)(F). Basic methods of quantitative and qualitative research and their application to the field. The relationship among theory, research, and social policy. The development and interpretation of research reports.


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

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

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

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

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

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

CJ 513 VICTIMOLOGY (3-0-3)(F). An exploration of the theory, research, and practices related to crime victimization. The role of victims in the crime triangle, prevalence of various forms of victimization, the effects of crime on its victims, and the criminal justice/social services response to victimization will be discussed.

CJ 514 SEMINAR: ISSUES IN CONTEMPORARY CORRECTIONS (3-0-3)(F)(Odd years). In-depth consideration of issues affecting corrections today. Correctional organization, management and leadership, policy formulation, institutional and community corrections and related issues are among the topics considered. The contribution of rehabilitative and deterrent philosophies to corrections provides a backdrop to a consideration of the diverse contemporary perspectives on corrections.

CJ 515 SEMINAR: CRITICAL ISSUES IN CRIMINAL JUSTICE (3-0-3)(F)(Even years). An exploration of a current or emerging issue affecting crime and/or the criminal justice system. Detailed focus on one topic of the instructor's choice per course offering.

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

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

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

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

CJ 527 WHITE-COLLAR CRIME (3-0-3)(F)(S). Nature and extent of upper-class criminality, including measures, reporting, and categories. Emphasis on organizational, occupational, and governmental crime. Functions of social control, punishment, and regulatory agencies examined.

CJ 528 THE DEATH PENALTY IN AMERICA (3-0-3)(F)(S). Historical, philosophical, and empirical examination of capital punishment with an emphasis on race/ethnicity, class, gender, and religion. Legal issues including jury-decision making, ineffective legal representation, cruel and unusual punishment, mental illness, wrongful conviction, costs, international law, and other policy issues examined. Living and working on death row, methods of execution, and philosophies of punishment explored.

CJ 562 CONTEMPORARY ISSUES IN CRIMINAL COURTS (3-0-3)(F/S). Study of the major contemporary issues facing the criminal court system at local, state, and federal levels of government. Topics include, but are not limited to, problem-solving courts (drug court, mental health court, etc.), determinants of court processing decisions, and impact of legal decisions on courtroom behavior. Topics considered from historical, legal, philosophical, sociological and psychological perspectives.

CJ 564 CONTEMPORARY ISSUES IN OFFENDER REHABILITATION (3-0-3)(F/S). Study of the major contemporary issues facing the treatment of offenders at the local, state, and federal levels of government. Topics include, but are not limited to, treatment-centered programming and advances in rehabilitation of high-risk offenders.
Curriculum and Instruction Doctorate

College of Education

Graduate Program Coordinator: Keith Thiede
Education Building, Room 722
(208) 426-1278 (phone)
(208) 426-4408 (fax)
eddoctorate@boisestate.edu (email)

Participating Departments

- Counselor Education
- Curriculum, Instruction, and Foundational Studies
- Early and Special Education
- Educational Technology
- Literacy, Language, and Culture

DOCTOR OF EDUCATION IN CURRICULUM AND INSTRUCTION

General Information

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

Application Deadlines

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- March 1 (summer/fall)
- October 1 (spring)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree and a master's degree or the functional equivalent from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree and master's degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of application which includes a description of professional experiences and the relevance of those experiences to doctoral study in education, career goals and interest in area of specialization (i.e., bilingual education, counselor education and supervision, curriculum and instruction, early childhood education, educational leadership, educational technology, kinesiology, literacy, mathematics education, special education).
3. A current résumé or curriculum vitae.
4. Official Graduate Record Examinations (GRE) General Test scores from test taken within last seven years.
5. A scholarly and/or professional writing sample (master's thesis or project, grant application, class paper than includes synthesis of literature).
6. Three letters of recommendation attesting to the applicant's aptitude for and commitment to doctoral study in education, professional effectiveness, potential for influencing education, scholarly abilities and dispositions, integrity and other relevant information.

Graduate Assistantships

Any student qualifying for admission may apply for one of a limited number of graduate assistantships offered each year. Awards consist of a stipend and tuition and fee waiver for fall and spring semesters, plus a six-credit fee waiver for summer school. Graduate assistantships are awarded on an annual basis and must be renewed yearly by reapplying for the position. To be considered, applications must be submitted to the College of Education Graduate Office (Education Building, Room 722) by March 1. Typical assignments involve teaching undergraduate Education courses, supervising student teachers, serving as research assistants for graduate faculty, or a combination of activities.

Degree Requirements

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

Doctor of Education in Curriculum and Instruction

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tr>
<td>Core Requirements</td>
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<tr>
<td>EDU 610 The American Culture &amp; the Context of Schooling</td>
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<tr>
<td>EDU 611 School Culture and the Problems of Change</td>
<td>3</td>
</tr>
<tr>
<td>EDU 660 Learning and Cognition</td>
<td>3</td>
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<tr>
<td>EDU 662 Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>Research Core</td>
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<tr>
<td>EDU 555 Analysis of Variance in Educational Research or EDU 558 Multiple Regression of Educational Data</td>
<td>3</td>
</tr>
<tr>
<td>EDU 650 Analysis of Research Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>EDU 651 Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDU 652 Quantitative Approaches to Research</td>
<td>3</td>
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<tr>
<td>EDU 653 Qualitative Approaches to Research</td>
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<td>EDU 691 Doctoral Comprehensive Examination</td>
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<td>Culminating Activity</td>
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<td>EDU 693 Dissertation</td>
<td>9</td>
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<td>In addition, complete either a Cognate Area* or the following coursework to graduate with an EdD in Curriculum and Instruction with an emphasis in either Counselor Education and Supervision or Educational Leadership.</td>
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<tr>
<td>Cognate Area*</td>
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Counselor Education and Supervision Emphasis

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<tr>
<td>COUN 592 Portfolio</td>
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<tr>
<td>COUN 602 Advanced Theories &amp; Research in Counseling</td>
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<tr>
<td>COUN 603 Instructional Theory in Counselor Education</td>
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<tr>
<td>COUN 609 Advanced Culturally Aware Counseling</td>
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<td>COUN 610 Leadership and Advocacy</td>
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<tr>
<td>COUN 612 Research &amp; Program Evaluation In Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 613 Advanced Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 614 Advanced Practicum I</td>
<td>2</td>
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<tr>
<td>COUN 616 Advanced Practicum II</td>
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<td>COUN 620 Scholarship in Counselor Education &amp; Supervision</td>
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<tr>
<td>COUN 624 Advanced Supervision and Consultation</td>
<td>3</td>
</tr>
<tr>
<td>COUN 626 Doctoral Internship I</td>
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<tr>
<td>COUN 628 Doctoral Internship II</td>
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<td>ED-CIFS 576 Leadership Foundation or ED-CIFS 676 Foundations of Leading Complex Educational Organizations</td>
<td>6</td>
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<tr>
<td>ED-CIFS 577 Leading Teaching and Learning or ED-CIFS 677 Leading Continuous System-wide Improvement of Learning</td>
<td>6</td>
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<tr>
<td>ED-CIFS 578 Leading System Change or ED-CIFS 678 The Superintendent and Executive Level Leadership: Theory and Research</td>
<td>6</td>
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<tr>
<td>ED-CIFS 579 Educational Leadership Clinical Experience or ED-CIFS 679 The Superintendency and Executive Level Leadership: Clinical Experience</td>
<td>6</td>
</tr>
<tr>
<td>ED-CIFS 680 The Superintendency and Executive Level Leadership: Capstone Course or ED-CIFS 692 Capstone Course</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>67</td>
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</tbody>
</table>

*A ‘cognate’ is an area of specialization. Approved cognates are bilingual education, curriculum and instruction, early childhood education, educational technology, kinesiology, literacy, mathematics education, special education. Listings of the courses available to fulfill the 29 credits required of each cognate area may be found at: https://education.boisestate.edu/doctorateineducation/areas-of-specialization-cognates/.*

Residency

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

Course Offerings

See Course Numbering and Terminology for definitions.

EDU—Education

EDU 555 ANALYSIS OF VARIANCE IN EDUCATIONAL RESEARCH (3-0-3)(F/S/SU). Distribution theory and assumptions of parametric statistical models. Approaches to analysis of variance (ANOVA), including one-way and two-way factorial ANOVA, repeated-measures ANOVA, analysis of covariance, and post hoc tests associated with ANOVA. Data analyses and interpretation procedures via computer-based statistical packages. PREREQ: Any introductory course that addresses inferential statistics.

EDU 556 MULTIPLE REGRESSION OF EDUCATIONAL DATA (3-0-3)(F/S/SU). Assumptions of general linear models (simple and multiple regression) and testing whether data conform to those assumptions; dealing with missing data; techniques of multiple regression, including dealing with categorical data and interaction terms; logistic regression; and introduction to path analysis and structural modeling. Data analyses and interpretation procedures via computer-based statistical packages. PREREQ: Any introductory course that addresses inferential statistics.

EDU 610 THE AMERICAN CULTURE AND THE CONTEXT OF SCHOOLING (3-0-3)(F/S/SU). Explores the roles of schools in American society, including cross-cultural analyses; identify political forces influencing school policy-making in local, state, national and international arenas; investigate the economics of school improvement proposals; and consider the historical contexts of contemporary improvement efforts. Emphasizes the effects on American culture and the school of changing demographics, the challenges of an increasingly diverse society, and the impact of technology and the ongoing information revolution. PREREQ: ED-CIFS 505, ED-CIFS 506 or equivalents.

EDU 611 SCHOOL CULTURE AND THE PROBLEMS OF CHANGE (3-0-3)(F/S/SU). Explores the cultures and organizational dynamics of schools, and obstacles to change in an increasingly diverse society. Examines case studies of past change efforts for their lessons for contemporary improvement efforts. Examines research and theory about systemic change in schools and other organizations as a basis for developing working theories and leadership skills necessary to guide school improvement efforts. PREREQ: EDU 610.

EDU 650 ANALYSIS OF RESEARCH PERSPECTIVES (3-0-3)(F/S/SU). Overview and critical analysis of research paradigms. Assumptions, standards, and methods for critiquing, generating and communicating interpretations. PREREQ: ED-CIFS 503 or equivalent.

EDU 651 EVALUATION (3-0-3)(F/S/SU). Methods of evaluation with emphasis on making judgments about such educational issues as school effectiveness, individual performances, and other educational endeavors. Ethical issues in assessment and evaluation and analysis of social, cultural, and political influences affecting assessment and evaluation procedures.

EDU 652 QUANTITATIVE APPROACHES TO RESEARCH (3-0-3)(F/S/SU). Appropriate research designs and data analysis techniques in quantitative research and related design and measurement issues. Conduct a quantitative study. PREREQ: EDU 555 or EDU 556 or equivalent.

EDU 653 QUALITATIVE APPROACHES TO RESEARCH (3-0-3)(F/S/SU). Analysis of various approaches to qualitative research methods, including case studies and biographical, phenomenological, ethnographic, interactional, and critical analyses. Students conduct a qualitative study. PREREQ: EDU 650. COREQ: EDU 660.

EDU 654 ADVANCED APPLICATIONS OF QUALITATIVE RESEARCH METHODS (3-0-3)(F/S/SU). Advanced applications in a representative range of qualitative research methods for doctoral and advanced master’s students, including the use of questionnaires, focus groups, surveys, case studies, discourse and content analysis. PREREQ: EDU 653 or equivalent.

EDU 660 LEARNING AND COGNITION (3-0-3)(F/S/SU). Learning theories and processes with emphasis given to cognitive and situated learning. PREREQ: Graduate status.

EDU 662 CURRICULUM (3-0-3)(F/S/SU). Focuses on major theories, research bases, and significant societal factors in school curricula. Includes historical and philosophical foundations of curricular development; analysis of factors and issues influencing curricular determinations, including cultural influences and technological contributions; and consideration of likely future curricular evolution. PREREQ: ED-CIFS 536 or equivalent. COREQ: EDU 653.
Department of Curriculum, Instruction, and Foundational Studies

College of Education

Chair: Kathleen Budge
Education Building, Room 438
(208) 426-2234 (phone)
kathleenbudge@boisestate.edu (email)

Graduate Faculty: Anderson, Bendefur, Budge, Carney, Cross, Dismuke, Enright, Flay, Fry, Gabbard, Hagenah, Kelly, Osguthorpe, Parrett, Quarles, Siebert, Snow, Sticha, Thiede, Turner, Werner, Williams

Graduate Degrees Offered

- Education Specialist in Executive Educational Leadership
- Master of Arts in Education, Curriculum and Instruction
- Master of Education in Educational Leadership
- Graduate Certificate in Mathematical Thinking for Instruction
- Graduate Certificate in Teaching

EDUCATION SPECIALIST IN EXECUTIVE EDUCATIONAL LEADERSHIP

Graduate Program Coordinator: Heather Williams
Education Building, Room 214
(208) 426-2234 (phone)
hpwilliams@boisestate.edu (email)

General Information

The College of Education offers an education specialist degree in Executive Educational Leadership, designed to develop effective leaders in educational settings. The interdisciplinary course work provides students with the basis for a thorough understanding of leadership, management, and reform within educational systems. Students will have collaborative opportunities to effectively influence current education reform and student learning. The sequence of instruction uses a closed cohort model, in which all students begin the program with ED-CIFS 676 in the fall and proceed together to complete the sequence of courses. Only one course is offered each semester.

Conceptual Framework

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

Admission Requirements

Applicants are required to have earned at least a baccalaureate and a master’s degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of application, including professional goals.
3. Admission may be granted to qualified applicants who have some professional experience in the field of education or other related field.
4. Recommendation following an interview with Executive Educational Leadership faculty.
5. Two letters of recommendation from school district personnel (if employed as an educator); if not, one letter should be from an immediate supervisor and one who can speak to the applicant’s leadership ability and/or potential.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED-CIFS 676 Foundations of Leading Complex Educational Organizations</td>
<td>6</td>
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<tr>
<td>ED-CIFS 677 Leading Continuous System-wide Improvement of Learning</td>
<td>6</td>
</tr>
<tr>
<td>ED-CIFS 678 The Superintendency and Executive Level Leadership: Theory and Research</td>
<td>6</td>
</tr>
<tr>
<td>ED-CIFS 679 The Superintendency and Executive Level Leadership: Clinical Experience</td>
<td>6</td>
</tr>
<tr>
<td>ED-CIFS 680 The Superintendency and Executive Level Leadership: Capstone Course</td>
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</tbody>
</table>

MASTER OF ARTS IN EDUCATION, CURRICULUM AND INSTRUCTION

Graduate Program Coordinator: Esther Enright
Education Building, Room 412
(208) 426-1693 (phone)
estherenright@boisestate.edu (email)

General Information

The Master of Arts in Education, Curriculum and Instruction is designed to improve instructional, curricular and leadership skills among practicing educators. Graduates of the program will be able to adapt research based techniques to meet the requirements of their professional situations and be able to assess and reflect on the efficacy of their efforts. Students may select from three culminating experiences. This degree requires completion of a minimum of 32 credits. The MA in Education, Curriculum and Instruction does not lead to initial teacher certification nor does it require certification for admission.

Application Deadlines

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- April 1 (summer)
- July 1 (fall)
- November 1 (spring)
Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of application including professional goals, a description of specific classroom practice that will be improved upon through participation in the program, and/or a broader educational issue the applicant hopes to more fully understand.
3. Two letters of recommendation.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Arts in Education, Curriculum and Instruction</td>
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</tr>
<tr>
<td>Practical Perspectives</td>
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<tr>
<td>ED-CIFS 536 Curriculum Planning and Implementation</td>
<td>3</td>
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<td>ED-CIFS 537 Instructional Theory</td>
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<tr>
<td>Foundational Perspectives</td>
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<td>ED-CIFS 506 Issues in Education</td>
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<td>Select 3 credits from the following:</td>
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<td>ED-CIFS 502 Comparative Education</td>
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<tr>
<td>ED-CIFS 505 Philosophy of Education</td>
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<tr>
<td>ED-CIFS 520 Foundations of Gifted and Talented Education</td>
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<tr>
<td>Research Perspectives</td>
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<td>ED-CIFS 503 Fundamentals of Educational Research</td>
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<td>ED-CIFS 510 Introductory Statistics in Educational Research</td>
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<tr>
<td>ED-CIFS 549 Action Research and Its Implications in the Mathematics Classroom</td>
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<td>ED-CIFS 574 Action Research and Practicum in Gifted and Talented Education</td>
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<td>Cognate</td>
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<td>Available cognates include Certification, Gifted and Talented Education, Math Consulting Teacher, Teacher Leadership, and an Individualized Cognate</td>
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<td>Culminating Activity</td>
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<tr>
<td>Capstone Course</td>
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<tr>
<td>ED-CIFS 692 Capstone Course (1 cr)</td>
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<td>Thesis or Project</td>
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<td>ED-CIFS 591 Project or ED-CIFS 593 Thesis (6 cr)</td>
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MASTER OF EDUCATION IN EDUCATIONAL LEADERSHIP

Program Coordinator: Kelly Cross
Education Building, Room 211
(208) 426-2806 (phone)
kellycross@boisestate.edu (email)

General Information

The College of Education offers a master's degree in Educational Leadership, designed to develop effective leaders in educational settings. The interdisciplinary course work provides students with the basis for a thorough understanding of leadership, management and reform within educational institutions. Students will have collaborative opportunities to effectively influence current education programs and student learning.

Conceptual Framework

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

Application Deadline

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- July 1 (fall admission only)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of application, including professional goals.
3. Admission will be granted to qualified applicants who have some professional relationship to instruction.
4. Recommendation following an interview with Educational Leadership Development faculty.
5. Must verify four years of certified teaching or work in a K-12 setting to apply for the principal endorsement.
6. Two letters of recommendation. One letter of recommendation should be from an immediate supervisor in support of your participation in the program and the other letter from someone who can speak to your leadership ability and/or potential.
Degree Requirements

<table>
<thead>
<tr>
<th>Master of Education in Educational Leadership</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED-CIFS 576 Leadership Foundation</td>
<td>6</td>
</tr>
<tr>
<td>ED-CIFS 577 Leading Teaching and Learning</td>
<td>6</td>
</tr>
<tr>
<td>ED-CIFS 578 Leading System Change</td>
<td>6</td>
</tr>
<tr>
<td>ED-CIFS 579 Educational Leadership Clinical Experience</td>
<td>6</td>
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<tr>
<td>ED-CIFS 692 Capstone Course</td>
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<td>Total</td>
<td>30</td>
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</tbody>
</table>

GRADUATE CERTIFICATE IN MATHEMATICAL THINKING FOR INSTRUCTION

Graduate Program Director: Jonathan Brendefur
Education Building, 222
(208) 426-4650 (phone)
gradercertmti@boisestate.edu (email)

General Information

Graduate Program Coordinator Elementary Pathway: Julianne Werner
Graduate Program Coordinator Secondary Pathway: Serena Hicks
Education Building, Room 411
(208) 426-2615 (phone)
 juliannewerner@boisestate.edu (email)

Certificate Requirements

Graduate Certificate in Mathematical Thinking for Instruction

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ED-CIFS 540 Mathematical Thinking for Instruction: Number and Operations K-3</td>
<td>3</td>
</tr>
<tr>
<td>ED-CIFS 542 Mathematical Thinking for Instruction: Number and Operations 4-8</td>
<td></td>
</tr>
<tr>
<td>ED-CIFS 544 Mathematical Thinking for Instruction: Number and Operations 6-12</td>
<td></td>
</tr>
<tr>
<td>ED-CIFS 541 Early Numeracy and Operations K-3</td>
<td>6</td>
</tr>
<tr>
<td>ED-CIFS 543 Applications of Rational Numbers and Proportional Reasoning 4-8</td>
<td></td>
</tr>
<tr>
<td>ED-CIFS 545 Applications of Algebra Topics 6-12</td>
<td></td>
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Required Courses

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ED-CIFS 547 Measurement and Geometry</td>
<td>3</td>
</tr>
<tr>
<td>ED-CIFS 548 Data Analysis, Statistics, and Probability</td>
<td>3</td>
</tr>
<tr>
<td>ED-CIFS 549 Action Research and Its Implications in the Mathematics Classroom</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one option from the following:

- Mathematics Specialist K-8 Option
- Mathematics Consulting Teacher Endorsement Option

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED-CIFS 552 Mathematical Thinking for Instruction: Study of Practice in Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ED-CIFS 546 Building Teacher Leaders of Mathematics</td>
<td></td>
</tr>
</tbody>
</table>

Total 21

GRADUATE CERTIFICATE IN TEACHING

Graduate Program Coordinator Elementary Pathway: Julianne Werner
Education Building, Room 411
(208) 426-2615 (phone)
 juliannewerner@boisestate.edu (email)

Graduate Program Coordinator Secondary Pathway: Serena Hicks
Education Building, Room 514
(208) 426-1663 (phone)
 serenahicks@boisestate.edu (email)

General Information

The Graduate Certificate in Teaching is a rigorous, accelerated pre-professional program leading to initial certification. Students can select from two pathways: Secondary (grades 6-12)/Art (K-12 or 6-12) or Elementary (grades K-8). Students who have a bachelor's degree and who meet Graduate College admission requirements may enroll in a graduate certificate program that prepares them to qualify for teacher certification from the Idaho State Department of Education. Select credits from certification programs may be applied to a master's degree program. Advising and review of transcripts will be done by the Department of Curriculum, Instruction, and Foundational Studies.

Elementary Pathway

Graduate Certificate in Teaching (Elementary Pathway) candidates are required to complete one elementary-approved endorsement of at least 20 credits. Some content areas require specific courses within those totals. See program coordinator for a list of approved endorsements for elementary.
Secondary Pathway

Graduate Certificate in Teaching (Secondary Pathway) for secondary/art teacher certification must complete either an approved single endorsement of at least 45-semester credits hours or 67-quarter hours or a 30-credit primary area and one or more supplemental endorsements of at least 20 credits (see list of available approved endorsements below). Some content areas require specific courses within those totals. A degree in a subject may not necessarily include the specific content and courses required for certification.

Secondary Pathway Available Approved Endorsements

Information regarding the required Praxis II exams for each endorsement area can be found at http://www.ets.org/praxis.

- Art, K-12 or 6-12
- Biological Science
- Chemistry
- Drama
- Earth Science
- Economics
- English
- Foreign Language: French
- Foreign Language: German
- Foreign Language: Spanish
- History
- Mathematics
- Natural Science*
- Physical Science*
- Physics

*Only minor endorsements possible in these areas; you must also have a primary 30 credit endorsement.

Application Deadline

Submit application and admission materials well in advance to ensure that the application is complete by the deadline.

Elementary Pathway

- First Friday in February (summer/fall)
- Third Friday in September (spring)

Secondary Pathway

- First Friday in February (summer only)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Minimum 3.00 GPA in primary and secondary endorsement areas.
3. Evidence of technology competency, which could include EDTECH 202 or equivalent course or examination.
4. A letter of Intent (1-2 pages) describing applicants experience and/or potential for working with children or schools.
5. Complete an admission interview.
6. Two letters of recommendation, describing applicant’s experience working with children or schools.

Elementary Pathway

In addition to the general admission requirements, applicants must meet the following criteria particular to the Elementary Pathway:

1. Completion of MATH 157 Number and Operations for Teachers or equivalent course
2. Documentation of a passing score of 150 on the Praxis I Core Academic Skills for Educators Math # 5732 uploaded to the Graduate College application, (visit http://www.ets.org/praxis for Praxis examination information). Official Praxis test scores must be sent to the Office of Teacher Education.

For admission to Professional Year the deadline is the semester before you begin your Professional Year on the first Friday in February and the third Friday in September.

1. Complete the Professional Year application process on Taskstream
2. Documentation of a passing score on all four subsections of the Praxis II: Elementary Education: Multiple Subjects Test #5001 uploaded to Taskstream
3. Documentation of a passing score on the appropriate Praxis II exam for the approved endorsement area uploaded to Taskstream.
4. Criminal history check, a completed fingerprint card and a $40 fee for the background check (check or money order only, made out to the Idaho State Department of Education). Pick up fingerprinting card in College of Education, Office of Teacher Education, located in the Education Building, Room 722 and follow all directions.

Secondary Pathway

In addition to the above general admission requirements, applicants must meet the following criteria particular to the Secondary Pathway:

1. Criminal history check, a completed fingerprint card and a $40 fee for the background check (check or money order only, made out to the Idaho State Department of Education),
   - Pick up fingerprinting card in College of Education, Office of Teacher Education, located in the Education Building, Room 722 and follow all directions.
   - Upload documentation of a cleared background check into the Graduate College application
2. Equivalent of 45-semester credit major, or a 30-credit primary, and at least one supplemental or a 30 and at least one 20-credit supplemental endorsement fields,
3. Passing score on the appropriate Praxis II examination in primary and supplemental fields (visit http://www.ets.org/praxis for Praxis examination information),
   - All official Praxis test scores must be sent to the Boise State University Office of Teacher Education
   - Passing scores must be received before applicants can be admitted. Applicants should take the appropriate Praxis II examination(s) no later than January
   - Passing Praxis score documentation uploaded into Graduate College application.
Certificate Requirements

Students must maintain a GPA of 3.00 and all required courses must be passed with a minimum grade of C. Each student's plan of study is unique due to their previous studies. Please make an appointment with the program coordinator once you are admitted and prior to registering for classes to prepare a proposed plan of study.

Graduate Certificate in Teaching

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED-CIFS 507 Foundations of American Education</td>
<td>3</td>
</tr>
<tr>
<td>ED-ESP S10 Foundations of Practice or ED-ESP S50 Teaching Students with Exceptional Needs</td>
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<tr>
<td>Four (4) courses chosen from: ED-CIFS 508 Learning and Development of Students</td>
<td>12</td>
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<tr>
<td>ED-CIFS 509 Curriculum, Instruction, and Assessment in Grades 6-12</td>
<td></td>
</tr>
<tr>
<td>ED-CIFS 531 Elementary Mathematics Curriculum &amp; Instruction</td>
<td></td>
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<tr>
<td>ED-CIFS 547 Measurement and Geometry</td>
<td></td>
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<tr>
<td>ED-CIFS 550 Seminar On Teaching and Learning</td>
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<tr>
<td>ED-LLC 544 Content Literacy in Secondary Schools</td>
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<tr>
<td>ED-LLC 549 Idaho Comprehensive Literacy Course</td>
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<tr>
<td>Select one (1) Content Methods chosen from: ED-CIFS 333 Elementary Science Curriculum and Instruction</td>
<td></td>
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<tr>
<td>ED-CIFS 533 Advanced Practices and Principles in Teaching Elementary Science</td>
<td>3-6</td>
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<tr>
<td>Or other content-specific methods course approved by supervisory committee/advisor.</td>
<td></td>
</tr>
<tr>
<td>Professional Year</td>
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<tr>
<td>ED-CIFS 329 Assessment in Teaching and Learning</td>
<td>3</td>
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<tr>
<td>ED-CIFS 332Elementary Classroom Learning Environments</td>
<td>3</td>
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<tr>
<td>ED-CIFS 560 Professional Year I—Elementary Teaching Experience or ED-CIFS 561 Professional Year—Teaching Experience I</td>
<td>3-5</td>
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<tr>
<td>ED-CIFS 562-566 Professional Year—Teaching Experience II or ED-CIFS 567 Professional Year II—Elementary Teaching Experience</td>
<td>6-12</td>
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Certification

Submit a completed Proposed Plan of Study for a Graduate Certificate form and apply for graduation on myBoiseState (https://my.boisestate.edu/) before obtaining the recommendation of the Certification Officer for the Boise State University College of Education (using the required certification materials available in the Office of Teacher Education, Education Building, Room 722).

Gainful Employment Disclosure

The Graduate Certificate in Teaching program is subject to gainful employment disclosure requirements as prescribed by federal regulation 34 CFR 668.6(b) (2) (iv). The required disclosure is given at the following website: https://graduatecollege.boisestate.edu/programs2018/Gedt-Teaching%202018/13.0101-Gedt.html.

Course Offerings

ED-CIFS—Curriculum, Instruction, and Foundational Studies

ED-CIFS 501 ADVANCED EDUCATIONAL PSYCHOLOGY (3-0-3)(On demand). A study of contemporary issues involving both theoretical and methodological considerations in the history and systems of educational psychology. Special emphasis will be given to group behavior in terms of principles relevant to educational objectives. PREREQ: ED-CIFS 203 and PSYC 101.

ED-CIFS 502 COMPARATIVE EDUCATION (3-0-3)(F/S/SU). A comparative analysis of multiple countries' educational systems. Contemporary educational systems are analyzed as instruments of national development, human development and social transformation.

ED-CIFS 503 FUNDAMENTALS OF EDUCATIONAL RESEARCH (3-0-3)(F/S/SU). This course will introduce students to the elements of experimental and non-experimental research designs. Instruction in using research resources and interpreting statistics will be given and students will analyze current research related to education. Students will learn how to develop a research proposal and will write a scholarly research paper.

ED-CIFS 504 INSTRUCTIONAL SUPERVISION (3-0-3)(F/S/SU). Designed to improve the instructional leadership skills of educators. Emphasis is placed on a variety of observation and learning-centered pedagogies designed to improve instruction.

ED-CIFS 505 PHILOSOPHY OF EDUCATION (3-0-3)(S/SU). Students will analyze and evaluate past and contemporary philosophies and the values derived from them as they apply to education. A formal paper will be required.

ED-CIFS 506 ISSUES IN EDUCATION (3-0-3)(F/S/SU). Historical and contemporary social, economic, and organizational issues influencing education.

ED-CIFS 507 FOUNDATIONS OF AMERICAN EDUCATION (3-0-3)(S/SU). Historical, philosophical, sociological foundations of American education. Study of the historical development of public education in the United States, with special emphasis given to questions of power, equity, and inclusion; explore major schools of educational thought, as well as the philosophy of inclusion; and apply historical understanding and philosophical analysis to contemporary issues. PREREQ: Admission to Graduate Certificate in Secondary/K-12 Teaching or PERM/INST.

ED-CIFS 508 LEARNING AND DEVELOPMENT OF STUDENTS (2-2-3)(S/SU). Theories of psychological and social development of children and adolescents as they apply to learning, motivation, and interaction, including the ranges of abilities and interests found in typical classrooms. PREREQ: Admission to Graduate Certificate in Secondary/K-12 Teaching or PERM/INST.

ED-CIFS 509 CURRICULUM, INSTRUCTION AND ASSESSMENT IN GRADES 6-12 (3-0-3)(S/SU). Curriculum planning, instructional strategies, assessment of student learning, differentiated instruction, and principles of classroom and behavior management. PREREQ: Admission to Graduate Certificate in Secondary/K-12 Teaching or PERM/INST.

ED-CIFS 510 INTRODUCTORY STATISTICS IN EDUCATIONAL RESEARCH (3-0-3)(F). Basic parametric and non-parametric statistical procedures commonly used in educational research, including z-test, t-test, one-way analysis of variance, simple correlation, simple regression, and chi-square. Data analyses and interpretation procedures via computer-based statistical packages.

ED-CIFS 511 ASSESSMENT AND EVALUATION (3-0-3)(F/S). Investigates formal and informal assessments of student, class, district, state, and national performance and achievement, and evaluation using appropriate standards. Practical applications creating relevant assessments of classroom learning are emphasized.

ED-CIFS 520 FOUNDATIONS OF GIFTED AND TALENTED EDUCATION (3-0-3)(F/S). An overview of gifted/talented education. Topics may include identification, assessments, talent areas, curriculum adaptations, social needs, critical and creative thinking, legal aspects, and resources. PREREQ: PSYC 101 and ED-CIFS 203 or ED-CIFS 302, or PERM/INST.

ED-CIFS 521 CREATIVITY AND CRITICAL THINKING SKILLS (3-0-3)(F/S/SU). Definition, identification, and facilitation of creativity and critical thinking skills. Topics may include overview, cognitive development, related brain research, assessment instruments, creative people, processes, and conditions for fostering creativity and models of critical thinking including critical problem solving. Demonstration of competency in identifying, fostering, assessing, demonstrating, and describing programs that foster creativity and critical thinking are required. PREREQ: PSYC 101 and ED-CIFS 203 or ED-CIFS 302, or PERM/INST.
ED-CIFS 522 SOCIAL AND EMOTIONAL NEEDS OF GIFTED AND TALENTED LEARNERS (3-0-3)(F/S/SU). Identification and basic intervention for basic affective needs of gifted and talented learners. Topics covered may include: emotional aspects of giftedness, suicide, perfectionism, underachievement, peer relations, gender issues, risk taking, family relations, cultural factors, twice exceptional, self-esteem, career counseling, asynchronous development, and counseling skills for teachers. PREREQ: PSYC 101 and ED-CIFS 203 or ED-CIFS 302, or PERM/INST.

ED-CIFS 530 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING SOCIAL SCIENCE (3-0-3)(F). A comprehensive study of the practices and principles in social science education, including objectives, social problems, unit development, work-study skills, organization of the program materials and media, and research findings basic to social studies will be developed.

ED-CIFS 531 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCHOOL MATHEMATICS (3-0-3)(S). Emphasis on creative methods and strategies for teaching elementary school mathematics. Also includes a review of current research, curriculum trends and exploration of experimentation with unique materials for teaching mathematics.

ED-CIFS 533 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCIENCE (3-0-3)(F). Current practices and principles in modern elementary science concepts are developed. Emphasis is placed on the selection and organization of content and experimental activities.

ED-CIFS 534 TEACHING SECONDARY SOCIAL STUDIES (3-0-3)(F/S). This course will prepare teachers to engage young people in an inquiry about fundamental ideas and values from history and/or social science disciplines as well as to assist and encourage them to become informed, active participants in a democratic society. Students will examine professional literature on best teaching practices. PREREQ: Admission to Graduate Teacher Certification and ED-ESP 550. COREQ: ED-LLC 544 and ED-CIFS 561.

ED-CIFS 535 SECONDARY SCHOOL SCIENCE METHODS (3-0-3)(F/S). Students will examine local, state and national science curricula and standards. Students will use a variety of materials and methods, including appropriate instructional technologies, to develop science lessons which help all learners to develop scientific inquiry skills, an understanding of the nature of science, and critical understanding of selected science concepts and procedures. Students will also analyze current science educational journal articles and research. PREREQ: Admission into Graduate Teacher Certification and ED-ESP 550. COREQ: ED-LLC 544 and ED-CIFS 561.

ED-CIFS 536 CURRICULUM PLANNING AND IMPLEMENTATION (3-0-3)(F/S/SU). This is a general course for practicing teachers intended to give them a foundation in curriculum theory and practice. They will develop an understanding of how curriculum is developed, organized, implemented and evaluated. Current issues and trends in curriculum with some historical perspective will be explored.

ED-CIFS 537 INSTRUCTIONAL THEORY (3-0-3)(F/S/SU). This course includes investigations of research and theory about educational contexts, motivation, learning and development as they relate to models of instruction. Students will develop skills in selecting appropriate instructional models to achieve specific purposes in a variety of educational settings.

ED-CIFS 539 CURRICULUM ADAPTATIONS FOR GIFTED AND TALENTED STUDENTS (3-0-3)(F/S/SU). Curriculum adaptations for gifted and talented learners including curriculum compacting, independent study, project-based learning, research-based learning, enrichment programs, mentoring programs, acceleration, dual enrollment, and more. PREREQ: PSYC 101 and ED-CIFS 203 or ED-CIFS 302, or PERM/INST.

ED-CIFS 540 MATHEMATICAL THINKING FOR INSTRUCTION: NUMBER AND OPERATIONS K-3 (3-0-3)(F/S/SU). Examines how children develop an understanding of number sense, addition, subtraction, multiplication, division, place value, rational number, and algebraic reasoning. Emphasizes an investigative approach involving problem solving, reasoning and proof, connections, representations, and communication.

ED-CIFS 541 EARLY NUMERACY AND OPERATIONS K-3 (3-0-3)(F/S/SU). Examines how children develop an understanding of the relationship between development and early numeracy, counting, one-to-one correspondence, and early number sense. Emphasizes an investigative approach involving problem solving, reasoning and proof, connections, representations, and communication. PREREQ: ED-CIFS 540 or ED-CIFS 542 or ED-CIFS 544 or PERM/INST.

ED-CIFS 542 MATHEMATICAL THINKING FOR INSTRUCTION: NUMBER AND OPERATIONS 4-8 (3-0-3)(F/S/SU). Examines topics in number and operations taught in grades 4-8 with an emphasis on an investigative approach involving problem solving, reasoning and proof, connections, representations and communication. Topics include a focus on the foundational structure of rational numbers, rational number operations, and algebraic reasoning.

ED-CIFS 543 APPLICATIONS OF RATIONAL NUMBERS AND PROPORTIONAL REASONING 4-8 (3-0-3)(F/S/SU). Examines topics related to the application of rational number and rational number operations with an emphasis on an investigative approach involving problem solving, reasoning and proof, connections, representations and communication. Topics include ratio, proportion, rational numbers, and early algebraic applications. PREREQ: ED-CIFS 540 or ED-CIFS 542 or ED-CIFS 544 or PERM/INST.

ED-CIFS 544 MATHEMATICAL THINKING FOR INSTRUCTION: NUMBER AND OPERATIONS 6-12 (3-0-3)(F/S/SU). Examines topics in number and operations that are foundational to an understanding of algebra with an emphasis on an investigative approach involving problem solving, reasoning and proof, connections, representations and communication. Topics include equality, algebraic reasoning, generalizing, functions, and modeling.

ED-CIFS 545 APPLICATIONS OF ALGEBRAIC TOOLS 6-12 (3-0-3)(F/S/SU). Examines topics in algebra that are foundational to an understanding of the application of advanced algebraic concepts with an emphasis on an investigative approach involving problem solving, reasoning and proof, connections, representations and communication. Topics include generalization, functions, modeling, and their application in understanding the structure of mathematics through early calculus. PREREQ: ED-CIFS 540 or ED-CIFS 542 or ED-CIFS 544 or PERM/INST.

ED-CIFS 546 BUILDING TEACHER LEADERS OF MATHEMATICS (3-0-3)(F/S/SU). Examines foundational topics of effective professional development and coaching strategies with individuals and groups of teachers of mathematics with an emphasis on an investigative approach involving problem solving, reasoning and proof, connections, representations and communication. Topics include effective modeling, observation, collaboration, unit study, and best practices as informed by current research. PREREQ: ED-CIFS 547, ED-CIFS 548, and ED-CIFS 549; or PERM/INST.

ED-CIFS 547 MEASUREMENT AND GEOMETRY (3-0-3)(F/S/SU). Examines topics in measurement and geometry with an emphasis on an investigative approach involving problem solving, reasoning and proof, connections, representations and communication. Topics include unit, zero, transitivity, conservation, shape, and space. PREREQ: ED-CIFS 540 or ED-CIFS 542 or ED-CIFS 544 or PERM/INST.

ED-CIFS 548 DATA ANALYSIS, STATISTICS, AND PROBABILITY (3-0-3)(F/S/SU). Examines topics foundational to an understanding of probability, data analysis, and statistics with an emphasis on an investigative approach involving problem solving, reasoning and proof, connections, representations and communication. Topics include experimental and theoretical probability, the law of large numbers, sample space, independent and dependent events, central tendencies, spread, and representations. PREREQ: ED-CIFS 540 or ED-CIFS 542 or ED-CIFS 544 or PERM/INST.
ED-CIFS 549 ACTION RESEARCH AND ITS IMPLICATIONS IN THE MATHEMATICS CLASSROOM (3-0-3)(F/S/SU). Examines topics related to mathematics education and instruction with a focus on reviewing current mathematics education research, instructional implementation, and summarizing and evaluating findings. Topics selected by the student with instructor's approval. PREREQ: ED-CIFS 547 or ED-CIFS 548 or PERM/INST.

ED-CIFS 550 SEMINAR ON TEACHING AND LEARNING (3-0-3)(S). This hybrid seminar, consisting of campus and online discussion, will focus on synthesizing field experiences. Teaching as decision-making, teacher inquiry, classroom learning environments, employment preparation, adaptation of instruction, collaboration, and legal issues affecting classrooms will be addressed. PREREQ: Admission to Graduate Certificate in Secondary/K-12 Teaching or PERM/INST.

ED-CIFS 552 MATHEMATICAL THINKING FOR INSTRUCTION: STUDY OF PRACTICE IN MATHEMATICS (3-0-3)(F/S). Cohort groups of in-service teachers work collaboratively to design and facilitate mathematics lessons focused on developing mathematical thinking that embodies key aspects of the Mathematical Thinking for Instruction framework. Constructive feedback from the course instructor and peers will help elicit individual teacher reflection to support the enhancement of related lessons. Formative assessment strategies will be utilized to gather information on teachers' instructional practices and student reasoning and changes in student learning. PREREQ: ED-CIFS 541 or ED-CIFS 543, or PERM/INST.

ED-CIFS 555 SUPERVISED CLINICAL FIELD EXPERIENCE (1-6 credits)(F/S/SU). Required supervision for candidates adding an endorsement to current teaching certificate or for alternate route initial certification. Full-time classroom placement with performance assessment aligned with state certification requirements. Placement and credits required determined by Office of Teacher Education.

ED-CIFS 560 PROFESSIONAL YEAR I—ELEMENTARY TEACHING EXPERIENCE (0-18-5)(F/S). Classroom teaching placement focusing on activities related to planning and preparation of curriculum and instruction, and professional responsibilities. Students complete a minimum of 250 hours in the K-8 classroom and apply knowledge and skills from all professional education coursework. (Pass/Fail) PREREQ: Admission to the Graduate Certificate in Elementary Teaching and Professional Year.

ED-CIFS 561 PROFESSIONAL YEAR—TEACHING EXPERIENCE I (0-10-3)(F). Students work with master teachers for 150 hours. They observe the teaching/learning process and demonstrate competence in a K-12 school setting. (Pass/Fail) PREREQ: Admission to Graduate Certificate in Secondary/K-12 Teaching.

ED-CIFS 562 PROFESSIONAL YEAR—ELEMENTARY TEACHING EXPERIENCE II K-12 OPTION (1-40-6)(S). This course is reserved for students who are seeking an endorsement to teach in specific disciplines in grades 1-8. Students are given assignments in elementary schools where they observe and teach for one-half semester under the supervision of a master teacher and a university supervisor. Available for Art, Music, and Physical Education majors only. (Pass/Fail) PREREQ: Admission to Graduate Certificate in Secondary/K-12 Teaching and approval for placement in an appropriate classroom setting. COREQ: ED-CIFS 563 or ED-CIFS 564.

ED-CIFS 563 PROFESSIONAL YEAR—GRADES 6-9 TEACHING EXPERIENCE II K-12 OPTION (1-40-6)(S). Supervised student teaching in a junior high/middle school. The student will be placed with a cooperating teacher for one-half semester (full-time) in his/her major/minor field under the supervision of university faculty. Available for Art, Music, and Physical Education majors only. Seminars are required. (Pass/Fail) PREREQ: Admission to Graduate Certificate in Secondary/K-12 Teaching. COREQ: ED-CIFS 562 or ED-CIFS 564.

ED-CIFS 564 PROFESSIONAL YEAR—GRADES 9-12 TEACHING EXPERIENCE II K-12 OPTION (1-40-6)(S). Supervised student teaching in a senior high/middle school. The student will be placed with a cooperating teacher for one-half semester (full-time) in his/her major/minor field under the supervision of university faculty. Available for Art, Music, and Physical Education majors only. (Pass/Fail) PREREQ: Admission to Graduate Certificate in Secondary/K-12 Teaching. COREQ: ED-CIFS 562 or ED-CIFS 563.

ED-CIFS 565 PROFESSIONAL YEAR—GRADES 6-9 TEACHING EXPERIENCE II (1-40-12)(S). Supervised student teaching in a high/junior high/middle school. The student will be placed with a cooperating teacher for one semester (full-time) in his/her major/minor field under the supervision of university faculty. (Pass/Fail) Not available for Art, Music, or Physical Education Majors. PREREQ: Admission to Graduate Certificate in Secondary/K-12 Teaching.

ED-CIFS 566 PROFESSIONAL YEAR—GRADES 9-12 TEACHING EXPERIENCE II (1-40-12)(S). Supervised student teaching in a senior high school. The student will be placed with a cooperating teacher for one semester (full-time) in his/her major/minor field under the supervision of university faculty. (Pass/Fail) Not available for Art, Music, or Physical Education Majors. PREREQ: Admission to Graduate Certificate in Secondary/K-12 Teaching.

ED-CIFS 567 PROFESSIONAL YEAR II—ELEMENTARY TEACHING EXPERIENCE (0-40-12)(F/S). Students teaching experience in a K-8 school, including activities related to planning and preparation, classroom environments, curriculum and instruction, and professional responsibilities. Students will complete a full-time teaching experience consistent with the calendar of the assigned partnership school. (Pass/Fail) PREREQ: Admission to the Graduate Certificate in Elementary and ED-CIFS 329, ED-CIFS 332, and ED-CIFS 560.

ED-CIFS 574 ACTION RESEARCH AND PRACTICUM IN GIFTED AND TALENTED EDUCATION (0-10-3)(F/S/SU). Emphasizes the application of knowledge and skills to the development and administration of gifted and talented programs. All students are required to complete a 150 hour practicum during which they demonstrate the required competencies for the gifted and talented endorsement. Students design and conduct an action research project related to the field of gifted and talented education.

ED-CIFS 575 TEACHER LEADERSHIP (6-0-6)(F/S/SU). Emphasizes essential knowledge, skills and dispositions to serve as the foundational framework for instructional leadership. Emphasis includes developing collaborative cultures at the classroom, team, school and district levels. Participation in simulations is required of all students.

ED-CIFS 576 LEADERSHIP FOUNDATION (6-0-6)(F/S/SU). This module emphasizes essential knowledge, skills and dispositions to serve as the foundation for candidates pursuing positions of leadership, including study of the political, social, cultural and economic systems that support and affect schools and the theoretical principles underlying effective leadership. Emphasis includes developing conceptual frameworks to lead and manage 1) schools and school systems, 2) change and improvement, and 3) self, others and relationships. Participation in simulations is required of all students.

ED-CIFS 577 LEADING TEACHING AND LEARNING (6-0-6)(F/S/SU). This module emphasizes the knowledge, skills and dispositions of an effective instructional leader who is expected to influence, manage, monitor and ensure the quality of curriculum, instruction and assessment in schools and classrooms. Students will investigate aspects of curriculum theory, supervision, characteristics of effective teaching for diverse learners, strategies for assessment, and professional development. Participation in simulations is required of all students. PREREQ: ED-CIFS 576.

ED-CIFS 578 LEADING SYSTEM CHANGE (6-0-6)(F/S/SU). This module emphasizes the knowledge, skills and dispositions necessary to create school and district cultures, conditions and capabilities that support high levels of achievement for all students. Students learn to build relationships with all stakeholders, to use processes for creating system change, and to optimize the
ED-CIFS 579 EDUCATIONAL LEADERSHIP CLINICAL EXPERIENCE (1-15-6)(F). This module places candidates in approved partnership schools. Candidates meet in scheduled university classes throughout the experience. Individual work plans are developed collaboratively with candidate, mentor, and advisor. Contracts include required and elective activities, performance outcomes, reading requirements. (Pass/Fail.) PREREQ: ADM/PROG or PERM/INST.

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

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

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

ED-CIFS 661 PEDAGOGICAL PRACTICES IN EDUCATION (3-0-3)(F/S/SU). Pedagogical practices and professional development including social, political, cultural and historical influences, and practices of instructional leadership. PREREQ: ED-CIFS 537.

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

ED-CIFS 676 FOUNDATIONS OF LEADING COMPLEX EDUCATIONAL ORGANIZATIONS (6-0-6)(F/S/SU). Introduces several constructs related to leading complex educational organizations, including leadership theory, organizational theory, how policy works, the moral imperative of educational leadership in addressing persistent problems of practice, and the role of district-level leaders in improving learning. Explores connections between leadership and learning, as well as the role of superintendent and district-level leadership in promoting systemic innovation and change. PREREQ: Admission to Executive Educational Leadership Program.

ED-CIFS 677 LEADING CONTINUOUS SYSTEM-WIDE IMPROVEMENT OF LEARNING (6-0-6)(F/S/SU). Students examine the role of the superintendent and district-level leadership in continuous improvement of learning on three levels—student learning, professional learning, and system learning. Students explore the meaning and the implications for leaders of contemporary reform movements in the public school. Students investigate the nature and dynamics of organizations within large educational systems, exploring how organizations are designed and function, how policy works, and how systems change, adapt, and learn. Finally, students consider the role of superintendent and district-level leadership in fostering partnerships with local, state, and national entities to enhance system-wide educational opportunities for all students. PREREQ: ED-CIFS 676.

ED-CIFS 678 THE SUPERINTENDENCY AND EXECUTIVE LEVEL LEADERSHIP: THEORY AND RESEARCH (6-0-6)(F/S/SU). Students investigate the theory, research, and practice related to the contemporary demands of the superintendency and other executive-level leadership roles. Critical issues and problems of practice are explored, including effective and efficient governance of the district; budgeting processes; personnel management and development; staff relations; superintendent-board relations; bond issues; facilities planning; and superintendent as instructional leader. Students examine the procedures and techniques pertinent to the management of organizational conflict, including collective bargaining, grievance procedures, mediation, fact-finding, and arbitration. Emphasis is placed on examining the dynamics of the interface between the public schools and the community. PREREQ: ED-CIFS 677.

ED-CIFS 679 THE SUPERINTENDENCY AND EXECUTIVE LEVEL LEADERSHIP: CLINICAL EXPERIENCE (6-0-6)(F/S/SU). This module places candidates in approved partnership districts for an extended clinical experience focus. Introduces students to systematic inquiry—fundamental ideas about knowing and knowledge, data and evidence, and the applications of these ideas in settings that invite leadership action to address educational issues. Individual student work plans are developed collaboratively with mentor and advisor. PREREQ: ED-CIFS 678.

ED-CIFS 680 THE SUPERINTENDENCY AND EXECUTIVE LEVEL LEADERSHIP: CAPSTONE COURSE (6-0-6)(F/S/SU). Students engage in systematic inquiry in the context of their ongoing clinical experience, creating viable, rigorous designs for action-oriented research into local problems of practice. Students develop data collection tools, produce high-quality quantitative and qualitative data, and construct evidence for claims. This module equips system-level leaders with the skills, knowledge, and dispositions to foster a district-wide culture of inquiry and continuous improvement evidenced by authentic and productive strategic planning, high-quality program evaluation, and other forms of data-based decision making. PREREQ: ED-CIFS 679.

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

ED-CIFS 693 DISSERTATION (0-V-12)(F/S/SU). Students will complete an independent and original research project on an important educational issue; collect and interpret the findings in a cogent, professional and scholarly-written document; successfully defend the project to the dissertation committee; and disseminate those findings in a professionally appropriate manner. PREREQ: Successful completion of “Comprehensive Evaluation” and Admission to Candidacy.
Department of Early and Special Education
College of Education
Chair: Deb Carter
education@boisestate.edu (email)

Graduate Faculty: Carter, Ford, Hampshire, Humphrey, Johnson, Nelson, Pool

Graduate Degrees Offered
• Master of Education in Early and Special Education
• Master in Teaching in Early Childhood Intervention
• Master in Teaching in Special Education
• Graduate Certificate in Behavioral Interventions and Supports
• Graduate Certificate in Early Childhood Intervention Services and Supports
• Graduate Certificate in Early Childhood Special Education
• Graduate Certificate in Habilitative Services and Supports
• Graduate Certificate in Instructional Interventions and Supports
• Graduate Certificate in Special Education Services and Supports

MASTER OF EDUCATION IN EARLY AND SPECIAL EDUCATION
Graduate Program Coordinator: Deb Carter
education@boisestate.edu (email)

General Information
The Master of Education (MEd) in Early and Special Education degree program at Boise State University is designed to offer enhanced professional development in the related fields of early childhood intervention and special education for experienced educators and other professionals who provide supports and services to individuals with disabilities. These individuals may be employed as early childhood interventionists, P-12 general or special education teachers, or may work with or on behalf of young children with disabilities and their families in community or agency settings. This program allows flexibility for students to structure a program around their professional interests and also allows students to complete a graduate certificate program concurrently. The MEd in Early and Special Education does not lead to initial teacher certification nor does it require certification for admission.

Application Deadlines
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
• April 1 (summer)
• July 1 (fall)
• November 1 (spring)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree. A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Letter of application including the following: a) a description of your career goals and professional interests and how the program will help you attain them, and b) an explanation of why you are choosing the program and why you will be a successful graduate student.
3. Two letters of recommendation from individuals who are in a position to speak knowledgeably of the applicant’s ability to work with individuals with diverse learning and behavior needs.

Degree Requirements

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<thead>
<tr>
<th>Master of Education in Early and Special Education</th>
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<tbody>
<tr>
<td>Course Number and Title</td>
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<tr>
<td>ED-ESP 549 Multi-Tiered Systems of Support</td>
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<tr>
<td>ED-ESP 556 Evidence-Based Practices for Students with Support Needs</td>
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<tr>
<td>ED-ESP 559 Collaboration and Leadership in Special Education</td>
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<td>Research (select two courses from the following)</td>
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<td>ED-CIFS 503 Fundamentals of Educational Research</td>
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<td>ED-CIFS 510 Introductory Statistics in Educational Research</td>
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<tr>
<td>ED-ESP 560 Single-case Research Design</td>
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<tr>
<td>Behavior Support</td>
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<tr>
<td>ED-ESP 512 Positive Behavioral Interventions and Supports in Early Childhood*</td>
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<tr>
<td>ED-ESP 517 School-wide Behavior Support</td>
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<td>ED-ESP 518 Intensive, Individualized Behavior Support</td>
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<td>ED-ESP 548 Autism Spectrum Disorders</td>
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<td>ED-ESP 554 Positive Behavior Programs</td>
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<tr>
<td>Early Childhood Special Education</td>
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<tr>
<td>ED-ESP 511 EI/ECSE Assessment and Evaluation*</td>
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<tr>
<td>ED-ESP 512 Positive Behavioral Interventions and Supports in Early Childhood*</td>
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<td>ED-ESP 513 Family Systems and Collaboration</td>
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<td>ED-ESP 514 ECSE Methods*</td>
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<td>ED-ESP 515 Early Intervention, Birth to Three: ECE/ECSE</td>
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<td>Instructional Design</td>
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<td>ED-ESP 514 ECSE Methods*</td>
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<td>ED-ESP 552 Language Arts for Special Educators</td>
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<td>ED-ESP 557 Universal Design and Assistive Technology</td>
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<td>ED-ESP 570 Mathematics for Special Educators</td>
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<td>Assessment</td>
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<td>ED-ESP 511 EI/ECSE Assessment and Evaluation*</td>
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<td>ED-ESP 558 Assessment in Special Education</td>
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<tr>
<td>ED-ESP 592 Portfolio</td>
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*Course may only be used to meet one content area requirement.
MASTER IN TEACHING IN EARLY CHILDHOOD INTERVENTION

Graduate Program Coordinator: Deb Carter
Education Building, Room 215
(208) 426-2804 (phone)
debcarter@boisestate.edu (email)

General Information
The Master in Teaching (MIT) in Early Childhood Intervention culminates in both a Master’s degree and the following initial teacher certification in the state of Idaho: Blended Early Childhood Education/Early Childhood Special Education (Birth–Grade 3). This certification focuses on working with infants and young children from birth through third grade and their families in both regular education and special education settings.

Students in the MIT in Early Childhood Intervention participate in extensive learning communities over four academic semesters with an emphasis on collaboration and teamwork in classroom and clinical settings. Students have field-based opportunities to directly apply strategies learned in coursework with the support of both university and school-based supervisors and peers. The MIT program requires a minimum of 15 hours per week of instructional time in an approved setting with a consistent schedule in the fall and spring semesters for the ED-ESP 572 and ED-ESP 573 courses. Additional hours may be necessary in order to complete course and program requirements.

Application Deadline
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
• April 1 (summer admission only)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. Letter of application including the following: a) a description of your career goals and professional interests and how the program will help you attain them, and b) an explanation of why you are choosing the program and why you will be a successful graduate student.
3. A passing score on the Praxis Core Academic Mathematics Test #5732. Students can obtain information about this test from the Educational Testing Service (http://www.ets.org). The College of Education Office of Teacher Education can provide additional information, including current passing scores.
4. Two letters of recommendation from professionals who can speak of the knowledgeably of the applicant’s ability to work with young children with diverse learning and behavior needs and their families.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ED-ESP 510 Foundations of Practice</td>
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<td>ED-ESP 511 EI/ECSE Assessment and Evaluation</td>
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<td>ED-ESP 512 Positive Behavioral Interventions and Supports in Early Childhood</td>
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<td>ED-ESP 513 Family Systems and Collaboration</td>
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<td>ED-ESP 514 ECSE Methods</td>
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<td>ED-ESP 515 Early Intervention, Birth to Three: ECE/ECSE</td>
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<td>ED-ESP 540 Disability/Special Education and the Law</td>
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<td>ED-ESP 552 Language Arts for Special Educators</td>
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<td>ED-ESP 556 Evidence-Based Practices for Students with Support Needs</td>
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MASTER IN TEACHING IN SPECIAL EDUCATION

Graduate Program Coordinator: Deb Carter
Education Building, Room 215
(208) 426-2804 (phone)
debcarter@boisestate.edu (email)

General Information
The Master in Teaching (MIT) in Special Education culminates in both a Master’s degree and the following initial teacher certification in the state of Idaho: Exceptional Child, Generalist K-12. This certification may or may not be reciprocated in other states. This certification focuses on working with children in K-12 special education settings.

Students in the MIT in Special Education participate in extensive learning communities over four academic semesters with an emphasis on collaboration and teamwork in classroom and clinical settings. Students have field-based opportunities to directly apply strategies learned in coursework with the support of both university and school-based supervisors and peers. The MIT program requires a minimum of 15 hours per week of instructional time in an approved setting with a consistent schedule in the fall and spring semesters for the ED-ESP 572 and ED-ESP 573 courses. Additional hours may be necessary in order to complete course and program requirements.

Application Deadline
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
• April 1 (summer admission only)
Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Letter of application including the following: a) a description of your career goals and professional interests and how the program will help you attain them, and b) an explanation of why you are choosing the program and why you will be a successful graduate student.
3. A passing score on the Praxis Core Academic Mathematics Test #5732. Students can obtain information about this test from the Educational Testing Service (http://www.ets.org). The College of Education Office of Teacher Education can provide additional information, including current passing scores.
4. Two letters of recommendation from professionals who can speak of the applicant’s ability to work with individuals with diverse learning and behavior needs.

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<td>ED-ESP 518 Intensive, Individualized Behavior Support</td>
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<td>ED-ESP 540 Disability/Special Education and the Law</td>
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<td>ED-ESP 541 Secondary Transition</td>
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<td>ED-ESP 552 Language Arts for Special Educators</td>
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GRADUATE CERTIFICATE IN BEHAVIORAL INTERVENTIONS AND SUPPORTS

Graduate Program Coordinator: Deb Carter
Education Building, Room 228
(208) 426-2804 (phone)
debcarter@boisestate.edu (email)

General Information

The Graduate Certificate in Behavioral Interventions and Supports is designed for current or prospective education professionals who want to expand their knowledge of interventions and supports for individuals from birth through adulthood who engage in challenging behaviors that make inclusion in school and community-based settings a challenge. This certificate program can be pursued individually or may be completed concurrently with the MEd in Early and Special Education.

Application Deadlines
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- April 1 (summer)
- July 1 (fall)
- November 1 (spring)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Letter of application including the following: a) a description of your career goals and professional interests and how the program will help you attain them, and b) an explanation of why you are choosing the program and why you will be a successful graduate student.
3. Two letters of recommendation from professionals who can speak of the applicant’s ability to work with individuals with diverse learning and behavior needs.

Certificate Requirements

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<td>ED-ESP 512 Positive Behavioral Interventions and Supports in Early Childhood or ED-ESP 554 Positive Behavior Programs</td>
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<td>ED-ESP 517 School-wide Behavior Support</td>
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<td>ED-ESP 518 Intensive, Individualized Behavior Support</td>
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<td>ED-ESP 548 Autism Spectrum Disorders</td>
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<td>ED-ESP 559 Collaboration and Leadership in Special Education</td>
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<td>ED-ESP 560 Single-case Research Design</td>
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GRADUATE CERTIFICATE IN EARLY CHILDHOOD INTERVENTION SERVICES AND SUPPORTS

Graduate Program Coordinator: Deb Carter
Education Building, Room 228
(208) 426-2804 (phone)
debcarter@boisestate.edu (email)

General Information
The Graduate Certificate in Early Childhood Intervention Services and Supports is designed for individuals who have or are pursuing a degree in early childhood education, special education, early childhood special education, speech pathology, general education, physical therapy, occupational therapy, social work or nursing and are interested in working with infants and toddlers (0-3) with developmental delays or disabilities in the home and community setting. Students completing this certificate may work at either the Department of Health and Welfare’s Infant Toddler Program as a Developmental Specialist or for a developmental disability agency as a 0-3 Habilitative Interventionist. Habilitative Interventionists are primarily focused on teaching adaptive skills and supporting the development of pro-social behaviors. Developmental Specialists provide early intervention evidence based practices through consultation and education to families and caregivers by providing routine-based interventions in the child’s natural environment (homes, childcare, etc.). This certificate program can be pursued individually or may be completed concurrently with the MEd in Early and Special Education.

Application Deadlines
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- April 1 (summer)
- July 1 (fall)
- November 1 (spring)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Letter of application including the following: a) a description of your career goals and professional interests and how the program will help you attain them, and b) an explanation of why you are choosing the program and why you will be a successful graduate student.
3. Two letters of recommendation from professionals who can speak of the applicant’s ability to work with young children with diverse learning and behavior needs and their families.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED-ESP 510 Foundations of Practice</td>
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<tr>
<td>ED-ESP 511 EI/ECSE Assessment and Evaluation</td>
<td>3</td>
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<tr>
<td>ED-ESP 512 Positive Behavioral Interventions and Supports in Early Childhood</td>
<td>3</td>
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<tr>
<td>ED-ESP 513 Family Systems and Collaboration</td>
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<tr>
<td>ED-ESP 514 ECSE Methods</td>
<td>3</td>
</tr>
<tr>
<td>ED-ESP 515 Early Intervention, Birth to Three: ECE/ECSE</td>
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<tr>
<td>ED-ESP 540 Disability/Special Education and the Law</td>
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<td>ED-ESP 556 Evidence-Based Practices for Students with Support Needs</td>
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</table>

GRADUATE CERTIFICATE IN EARLY CHILDHOOD SPECIAL EDUCATION

Graduate Program Coordinator: Deb Carter
Education Building, Room 228
(208) 426-2804 (phone)
debcarter@boisestate.edu (email)

General Information
The Graduate Certificate in Early Childhood Special Education is designed for individuals who currently hold a valid Idaho Standard Exceptional Child Certification in conjunction with the Generalist K-12 Endorsement. Completion of this certificate and required Praxis II examinations leads to an institutional recommendation from Boise State to add an Early Childhood Special Education (ECSE; Pre-K-3) endorsement. The ECSE endorsement is non-categorical and allows one to teach in any Pre-K special education setting. This certificate program can be pursued individually or may be completed concurrently with the MEd in Early and Special Education.

Application Deadlines
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- April 1 (summer)
- July 1 (fall)
- November 1 (spring)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Letter of application including the following: a) a description of your career goals and professional interests and how the program will help you attain them, and b) an explanation of why you are choosing the program and why you will be a successful graduate student.
3. Two letters of recommendation from professionals who can speak of the applicant’s ability to work with young children with diverse learning and behavior needs and their families.
Certificate Requirements

Graduate Certificate in Early Childhood Special Education

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<tr>
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<td>ED-ESP 511 EI/ECSE Assessment and Evaluation</td>
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<td>ED-ESP 512 Positive Behavioral Interventions and Supports in Early Childhood</td>
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<td>ED-ESP 513 Family Systems and Collaboration</td>
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<td>ED-ESP 514 ECSE Methods</td>
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<tr>
<td>ED-ESP 583 Teaching Experience in Early and Special Education</td>
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Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Letter of application including the following: a) a description of your career goals and professional interests and how the program will help you attain them, and b) an explanation of why you are choosing the program and why you will be a successful graduate student.
3. Two letters of recommendation from professionals who can speak of the applicant's ability to work with individuals with diverse learning and behavior needs.

Certificate Requirements

Graduate Certificate in Habilitative Services and Supports

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<thead>
<tr>
<th>Course Number and Title</th>
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<tr>
<td>ED-CIFS 537 Instructional Theory</td>
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<td>ED-ESP 510 Foundations of Practice</td>
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<td>ED-ESP 512 Positive Behavioral Interventions and Supports in Early Childhood</td>
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<td>ED-ESP 554 Positive Behavior Programs</td>
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Graduate Certificate in Instructional Interventions and Supports

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<th>Course Number and Title</th>
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<tr>
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<td>ED-ESP 510 Foundations of Practice</td>
<td>3</td>
</tr>
<tr>
<td>ED-ESP 512 Positive Behavioral Interventions and Supports in Early Childhood</td>
<td>3</td>
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<td>ED-ESP 554 Positive Behavior Programs</td>
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Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

Application Deadlines

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- April 1 (summer)
- July 1 (fall)
- November 1 (spring)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.
A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Letter of application including the following: a) a description of your career goals and professional interests and how the program will help you attain them, and b) an explanation of why you are choosing the program and why you will be a successful graduate student.
3. Two letters of recommendation from professionals who can speak of the applicant’s ability to work with individuals with diverse learning and behavior needs.

**Certificate Requirements**

<table>
<thead>
<tr>
<th>Graduate Certificate in Instructional Interventions and Supports</th>
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<tr>
<td>ED-ESP 552 Language Arts for Special Educators</td>
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<td>ED-ESP 556 Evidence-Based Practices for Students with Support Needs</td>
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<td>ED-ESP 558 Assessment in Special Education</td>
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<td>ED-ESP 559 Collaboration and Leadership in Special Education</td>
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<td>ED-ESP 560 Single-case Research Design</td>
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<td>ED-ESP 570 Mathematics for Special Educators</td>
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**GRADUATE CERTIFICATE IN SPECIAL EDUCATION SERVICES AND SUPPORTS**

Graduate Program Coordinator: Deb Carter
Education Building, Room 228
(208) 426-2804 (phone)
debcarter@boisestate.edu (email)

**General Information**

The Graduate Certificate in Special Education Services and Supports is designed for individuals who do not have or are not pursuing a degree in a human services field and are interested in working with children and adolescents (age 3-17) with diagnosed developmental disabilities in the home and community setting. Students who do have or are pursuing a degree in a human services field may complete the Certificate in Habilitative Services and Supports. Approved human service degrees include the following: counseling and guidance, psychology, nursing, education/special education, sociology, child development/human development, social work, therapeutic recreation, marriage and family therapy, occupational therapy, physical therapy, speech language pathology/communication disorders, art therapy, dance therapy, music therapy and behavioral sciences/ABA.

Students who either a) complete the Certificate in Habilitative Services and Supports and have a degree in a human services field, or b) complete the Certificate in Special Education Services and Supports and have a bachelor’s degree in any field will complete the coursework requirements to work for a developmental disability agency as a 3-17 Habilitative Interventionist teaching adaptive skills and supporting the development of pro-social behaviors.

Interventionists work in the home and community setting focused on individual client goals including communication, social skills, self-management, self-help, and independence. In order to become a Habilitative Interventionist, individuals also need a minimum of one year supervised experience working with children with developmental disabilities which is typically provided by the hiring agency. This certificate program can be pursued individually or may be completed concurrently with the MEd in Early and Special Education.

**Application Deadlines**

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- April 1 (summer)
- July 1 (fall)
- November 1 (spring)

**Admission Requirements**

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. Letter of application including the following: a) a description of your career goals and professional interests and how the program will help you attain them, and b) an explanation of why you are choosing the program and why you will be a successful graduate student.
3. Two letters of recommendation from professionals who can speak of the applicant’s ability to work with individuals with diverse learning and behavior needs.

**Certificate Requirements**

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<td>ED-ESP 510 Foundations of Practice</td>
<td>3</td>
</tr>
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<td>ED-ESP 513 Family Systems and Collaboration</td>
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<td>ED-ESP 518 Intensive, Individualized Behavior Support</td>
<td>3</td>
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<td>ED-ESP 548 Autism Spectrum Disorders</td>
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<tr>
<td>ED-ESP 549 Multi-Tiered Systems of Support</td>
<td>3</td>
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<td>ED-ESP 554 Positive Behavior Programs</td>
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<td>ED-ESP 556 Evidence-Based Practices for Students with Support Needs</td>
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<td>ED-ESP 558 Assessment in Special Education</td>
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**Course Offerings**

**ED-ESP—Early and Special Education**

**ED-ESP 510 FOUNDATIONS OF PRACTICE (3-0-3)(SU).** Overview of student ability and disability from early intervention through the postsecondary transition process including, a) typical and atypical development, b) characteristics of students with disabilities, c) legal requirements for educating students with disabilities, d) instructional decision-making, and e) developing a personal view of special education.

**ED-ESP 511 EI/ECSE ASSESSMENT AND EVALUATION (2-3-3)(F).** Assessment and ongoing evaluation in EI/ECSE. Focus on screening, eligibility, curriculum-based measurement, progress monitoring, and data-based decision making. Fieldwork required.

**ED-ESP 512 POSITIVE BEHAVIORAL INTERVENTIONS AND SUPPORTS IN EARLY CHILDHOOD (2-3-3)(F).** Implementation of positive behavioral interventions and supports at program, classroom and individual-student levels. Focus on implementing positive, preventive and
function-based interventions in school, home and community environments. Fieldwork required.

ED-ESP 513 FAMILY SYSTEMS AND COLLABORATION (3-0-3) (SU). Exploration of family engagement models, ranging from Early Intervention approaches to K-12 collaboration with parents and multi-disciplinary teams. Emphasis on family systems theory and its' implications for working with students with disabilities and their families.

ED-ESP 514 ECSE METHODS (2-3-3)(S). Application of a linked system of assessment, goal development, intervention and evaluation to provide services across developmental domains. Fieldwork required.

ED-ESP 515 EARLY INTERVENTION, BIRTH TO THREE: ECE/ECSE (2-3-3)(S). Development of infants, both typically developing and those with delays and disabilities. Focus on learning in naturalistic environments, coaching families, and designing and implementing interventions. Minimum of 20 hours of fieldwork is required in specific early intervention agency settings.

ED-ESP 517 SCHOOL-WIDE BEHAVIOR SUPPORT SYSTEMS (3-0-3) (F)(Intermittently). School-wide systems of behavior support including a) the data, systems and practices necessary to implement a three-tiered model of behavior support, and b) the readiness requirements, process and considerations for systems-level implementation.

ED-ESP 518 INTENSIVE, INDIVIDUALIZED BEHAVIOR SUPPORT (3-0-3)(S). Data, systems and practices necessary to provide high quality, intensive, individualized interventions to students who display chronic problem behavior. Addresses functional behavioral assessment and the development of individualized behavior support plans. PREREQ: ED-ESP 512 or ED-ESP 554 or PERM/INST.

ED-ESP 540 DISABILITY/SPECIAL EDUCATION AND THE LAW (3-0-3)(SU). Advanced coverage of the American legal system as relevant to individuals with disability (P-age 21), using the six principles of P: L. 94-142 as a framework.

ED-ESP 541 SECONDARY TRANSITION (2-3-3)(S). Essential components of career development and transition education for persons with disabilities from middle school through adulthood. Emphasis is placed on IDEA requirements, comprehensive transition assessment, person centered planning, and issues and trends in transition education and services. Fieldwork required.

ED-ESP 548 AUTISM SPECTRUM DISORDERS (3-0-3)(F) (Intermittently). Advanced professional knowledge and skills relevant to providing services to individuals with Autism Spectrum Disorder, including historical context, definitions, identification, characteristics, and social and educational interventions and services.

ED-ESP 549 MULTI-TIERED SYSTEMS OF SUPPORT (3-0-3)(F). Essential components of a responsive instruction and intervention approach, including screening, instruction, intervention, progress monitoring, and fidelity of implementation.

ED-ESP 550 TEACHING SECONDARY STUDENTS WITH EXCEPTIONAL NEEDS (3-0-3)(F). Education of students with exceptional needs at the secondary level. Characteristics of students with disabilities, relevant legislation, assessment techniques, curricular adaptations and accommodations, and collaboration.

ED-ESP 552 LANGUAGE ARTS FOR SPECIAL EDUCATORS (2-3-3)(F). Advanced professional knowledge and skills in developing and implementing programs for students with disabilities, including data analysis in programmatic decision-making. Fieldwork required.

ED-ESP 554 POSITIVE BEHAVIOR PROGRAMS (2-3-3)(F). Current best practices in development and implementation of instructional and behavioral programs for students with challenging behaviors. Fieldwork required.

ED-ESP 556 EVIDENCE-BASED PRACTICES FOR STUDENTS WITH SUPPORT NEEDS (3-0-3)(SU). The role of educators in identifying, understanding and implementing evidence-based practices is examined, with focus on the characteristics of learners with significant support needs.

ED-ESP 557 UNIVERSAL DESIGN AND ASSISTIVE TECHNOLOGY (3-0-3)(SU). Principles of universal design for learning that promote inclusive learning. Focus on theoretical frameworks and practical applications of instructional design. Adaptive and assistive technology to support the specific needs of students with disabilities.

ED-ESP 559 COLLABORATION AND LEADERSHIP IN SPECIAL EDUCATION (3-0-3)(S). Collaboration in schools, community systems, and with families. Seminal readings provide an overview of the systems change and leadership literature.

ED-ESP 560 SINGLE-CASE RESEARCH DESIGN (3-0-3)(S). Overview of single-case research designs and methods of data analysis. Critical analysis of research articles and development of a single-subject research proposal are required. PREREQ: ED-ESP 556 or doctoral student status or PERM/INST.

ED-ESP 563 TEACHING EXPERIENCE IN EARLY AND SPECIAL EDUCATION (0-V-V)(F/S). Teaching experience in a P-12 special education classroom for students pursuing an Early Childhood Special Education endorsement or completing an alternate route to the special education or ECE/ECSE blended certificate. Experience is consistent with state certification standards and with relevant NAECY, DEC and CEC standards of practice (Pass/Fail.) PREREQ: Complete required Praxis II examinations and PERM/INST.

ED-ESP 567 UNIVERSAL DESIGN AND ASSISTIVE TECHNOLOGY (3-0-3)(F). Advanced professional knowledge and skills related to planning and preparation, classroom environments, curriculum and instruction, and professional responsibilities. (Pass/Fail.) PREREQ: ED-ESP 571 or PERM/INST.

ED-ESP 571 PROFESSIONAL PRACTICE I (1-3 credits)(SU). Professional practice topics directly relate to preparation for certification with an emphasis on professional dispositions for teacher education. (Pass/Fail.) PREREQ: Admission to MIT in Early Childhood Intervention or Admission to MIT in Special Education or PERM/INST.

ED-ESP 572 PROFESSIONAL PRACTICE II (1-3 credits)(F). Professional practice topics directly relate to field experiences. Emphasis on inquiry and basic skills related to planning and preparation, classroom environments, curriculum and instruction, and professional responsibilities. (Pass/Fail.) PREREQ: ED-ESP 571 or PERM/INST.

ED-ESP 573 PROFESSIONAL PRACTICE III (1-3 credits)(S). Professional practice topics directly relate to field experiences. Emphasis on performance assessment and proficient skills related to planning and preparation, classroom environments, curriculum and instruction, and professional responsibilities. (Pass/Fail.) PREREQ: ED-ESP 572 or PERM/INST.

ED-ESP 574 PROFESSIONAL PRACTICE IV (1-3 credits)(SU). Professional practice topics with reflection on field experiences. Emphasis on specialized knowledge and skill in the areas of a) learner and learning, b) content knowledge and professional foundations, c) instructional pedagogy, and d) professionalism and collaboration. (Pass/Fail.) PREREQ: ED-ESP 573 or PERM/INST.
Department of Economics

College of Business and Economics

Chair: Chris Loucks
Micron Business and Economics Building, Room 3246
(208) 426-1468 (phone)
econgrad@boisestate.edu (email)
https://cobe.boisestate.edu/economics/graduate-programs/ (website)

Graduate Faculty: Black, Chen, Fragkias, Hansen, Islam, Loucks, Lowe, Twigg

Graduate Degrees Offered

- Master of Economics
- Master of Science in Economics

General Information

The Department of Economics offers two distinct graduate programs. The Master of Economics program requires the completion of a capstone course as the culminating activity. The intended audience is students or others in the community seeking advancement in their career, and/or seeking careers in more quantitative and analytical fields.

The Master of Science in Economics program emphasizes research and requires completion of a thesis. The intended audience is students or others in the community seeking further education and research experience prior to pursuing a doctoral degree in economics and related fields.

Both programs provide students with advanced training in current fields of economics as well as rigorous research methods.

Application Deadline

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- February 15 (fall admission only)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree in economics or a related field from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of application describing background, career goals, academic interests, and how the program will help achieve those goals.
3. A current résumé or curriculum vitae.
4. Official Graduate Record Examinations (GRE) General Test scores. Fast track admission which waives the GRE requirement is available for Boise State University economics majors or minors who achieved a 3.50 GPA in their 300-400 level economics courses, and have a cumulative GPA of 3.30.
5. A writing sample demonstrating academic and writing talents (previous academic papers, research manuscripts, a document prepared for an employer, or new sample).
6. Successful completion of at least one semester of calculus and two semesters of probability and statistics courses.
7. Three letters of recommendation with at least two coming from academic faculty.
8. English proficiency is required. Applicants with English as a new language (ENL) must score 587/240/95 or better on TOEFL exam or 6.5 on the IELTS exam. ENL students must also take and pass an English proficiency exam at Boise State before taking any graduate courses beyond their first semester.

MASTER OF ECONOMICS

Program Coordinator: Michael Fragkias
Micron Business and Economics Building, Room 3208
(208) 426-3308 (phone)
econgrad@boisestate.edu (email)
https://cobe.boisestate.edu/economics/graduate-programs/ (website)

Degree Requirements

The Master of Economics (MEc) program requires the completion of a capstone course as the culminating activity. It provides students with advanced training in current microeconomic theory, quantitative economics, econometrics, and other fields of economics as well as rigorous research methods. The Master of Economics requires a completion of minimum of 31 credits, including one course in math for economists, two core courses in microeconomic theory, two core courses in statistical methods and econometrics, four courses in electives as well as three credits of capstone course as the culminating activity. The program starts in late summer (August) with a 2-credit course ECON 501 Mathematics for Economists.

All students are expected to have an initial meeting with the graduate coordinator to discuss their project to be completed in the ECON 562 Capstone Course. Meetings with the graduate coordinator will typically take place in student's second semester.

Maintenance of a cumulative GPA of 3.00 is required for both continuation in and graduation from the program. All requirements for the degree must be completed within a period of seven years.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tr>
<td><strong>Core Requirements</strong></td>
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<tr>
<td>ECON 501 Mathematics for Economists</td>
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<tr>
<td>ECON 511 Microeconomic Theory I</td>
<td>3</td>
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<tr>
<td>ECON 512 Microeconomic Theory II</td>
<td>3</td>
</tr>
<tr>
<td>ECON 521 Mathematical Statistics and Introduction to Advanced Econometrics</td>
<td>4</td>
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<td>ECON 522 Advanced Econometrics</td>
<td>4</td>
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<tr>
<td><strong>Elective Courses</strong></td>
<td>12</td>
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<tr>
<td>Twelve credits in approved courses that represents a disciplinary or interdisciplinary focus area. Courses must be approved by the graduate program director and cannot include more than 3 undergraduate credits. At least three credits must be economics electives.</td>
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<td><strong>Culminating Activity</strong></td>
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<td>ECON 692 Capstone Course</td>
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MASTER OF SCIENCE IN ECONOMICS

Program Coordinator: Michail Fragkias
Micron Business and Economics Building, Room 3208
(208) 426-3308 (phone)
econgrad@boisestate.edu (email)
https://cobe.boisestate.edu/economics/graduate-programs/ (website)

Degree Requirements

The Master of Science in Economics program provides students with advanced training in current microeconomic theory, quantitative economics, econometrics, and other fields of economics as well as rigorous research methods. The MS in Economics requires a completion of minimum of 31 credits, including one course in math for economists, two core courses in microeconomic theory, two core courses in statistical methods and econometrics, three courses in electives as well as a six hours of thesis work as the culminating activity. The program starts in late summer (August) with a 2-credit course ECON 501 Mathematics for Economists.

After a student completes a minimum of 9 credits of course work, they will work with the graduate coordinator or graduate supervisor to develop a topic for the proposed thesis. All students are expected to have an initial meeting with the graduate coordinator to discuss their options, however, they can choose to work with any graduate faculty as their thesis supervisor. Meetings with the graduate coordinator and thesis supervisor will typically take place in student's second semester.

Maintenance of a cumulative GPA of 3.00 is required for both continuation in and graduation from the program. All requirements for the degree must be completed within a period of seven years.

Master of Science in Economics

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<td>ECON 522 Advanced Econometrics</td>
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<td>Elective Courses</td>
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<td>Culminating Activity</td>
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<td>ECON 593 Thesis</td>
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Course Offerings

ECON—Economics

ECON 501 MATHEMATICS FOR ECONOMISTS (2-0-2)(SU). Intensive course in essential mathematics for entering graduate students in Economics. Topics covered include matrix algebra, functions, limits, differentiation, comparative statistics, linear algebra, and constrained and unconstrained optimization. Application of these mathematical techniques in economic analysis.

ECON 510 PUBLIC FINANCE (3-0-3)(F). Examines the roles of government and market systems in modern economies using the tools of economic analysis to evaluate major public policy decisions. The theory and rationale of government spending, taxing, and indebtedness are examined, as well as the effects of government activity on resource allocation, income distribution, and economic efficiency. Draws on the tools of microeconomic theory to develop analytical tools such as cost-benefit analysis to examine public spending projects. PREREQ: PERM/INST.


ECON 512 MICROECONOMIC THEORY II (3-0-3)(S). Topics may include: microeconomics of strategy; the economics of imperfect information and uncertainty, externalities and public goods, and imperfect competition, game theory, including the choice and voting models. PREREQ: ECON 511.

ECON 521 MATHEMATICAL STATISTICS AND INTRODUCTION TO ADVANCED ECONOMETRICS (4-1-4)(F). Covers the basic mathematical statistics topics necessary for a deep understanding of applied econometrics. Topics include random variables, probability theory, probability and density functions, sampling hypothesis testing, and point and interval estimation. Introduction to the basic concepts of statistics and OLS regression, and their application to the analysis of economic data. The theory of econometric estimation of single equation models. Laboratory includes computational research methods with an introduction to important statistical packages: STATA, R, and/or Python. PREREQ: PERM/INST.

ECON 522 ADVANCED ECONOMETRICS (4-1-4)(S). Econometric techniques working with cross-sectional and/or panel data. Topics may include interpreting regression, maximum likelihood estimation, panel data, correlated errors and clustering, count models, duration models, choice models, weak and many instruments, quantile regressions, matching estimators, and regression discontinuity. Laboratory includes computational research methods using important statistical packages: STATA, R, and/or Python. PREREQ: ECON 521.

ECON 531 REGIONAL ECONOMICS (3-0-3)(F). Application of economic analysis to regional problems of structure, growth, and policy. Location theory, various growth models, and specific techniques such as input-output analysis, base multipliers, and cost/benefit analysis are developed. PREREQ: ADM/PROG or PERM/INST.

ECON 532 URBAN ECONOMICS (3-0-3)(S). Focus on the structure of the urban areas, locational patterns, housing, crime, pollution, poverty, financial, and transportation problems. Tools of economic analysis used to analyze the problems and existing and proposed policies. PREREQ: ADM/PROG or PERM/INST.
ECON 533 NATURAL RESOURCE ECONOMICS (3-0-3)(S). Uses economic concepts and empirical evidence to address a broad range of natural resource policy and management issues. Concepts developed may include public goods, social welfare, discounting, dynamic efficiency, and resource scarcity. Applications may include fossil fuels, metals, minerals, forest resources, fisheries, biodiversity, water, land, soil, and ecosystem services. PREREQ: ADM/PROG or PERM/INST.

ECON 534 ENVIRONMENTAL ECONOMICS (3-0-3)(S). Addresses the role of the environment in the theory and practice of economics. The first section focuses on the ways in which markets fail to allocate resources efficiently, and addresses policies that may be used to correct for these market failures. The second section focuses on non-market valuation and the empirical techniques that economists use to put values on environmental attributes, services and commodities. PREREQ: ADM/PROG or PERM/INST.

ECON 540 HEALTH ECONOMICS (3-0-3)(F). Examines the economic issues associated with those individual and social decisions that influence the health of particular groups. Examines the production and delivery of health care and the economic and ethical aspects of health policy issues. Various economic approaches to the analysis of health policy are presented and evaluated. The focus is on the U.S. health care system. Comparisons may also be made to the health care systems of other nations. PREREQ: ADM/PROG or PERM/INST.

ECON 555 DECISIONS, CHOICES, AND HAPPINESS IN BEHAVIORAL ECONOMICS (3-0-3)(F). Discusses how psychological considerations can create “behavioral anomalies,” ways in which economists incorporate those considerations into their theories, and the implications for market outcomes and public policies. The role of intangibles such as locational/environmental amenities / employment status on happiness, the implications of social and personal motives (such as virtue ethics, altruism, status, procrastination, self-control, or image) are also considered. PREREQ: ADM/PROG or PERM/INST.

ECON 560 ECONOMICS OF PUBLIC POLICY (3-0-3)(F). Contribution of economic analysis to the justification, design and implementation of economic policy, especially as it relates to private property, the market economy, and the benefits and costs associated with government intervention. PREREQ: ADM/PROG or PERM/INST.

ECON 565 MANAGERIAL ECONOMICS AND STRATEGY (3-0-3)(F). Illustrates how to apply economic theory to business decision-making using actual examples and real data. Covers important empirical tools used by practicing managers in applied demand analysis such as linear and non-linear programming, sensitivity analysis, demand estimation and forecasting. Students build mathematical models, solve constrained optimization problems, find and explore optimal solutions with spreadsheets. PREREQ: ADM/PROG or PERM/INST.

ECON 571 ECONOMIC GROWTH (3-0-3)(F). Examines the question, “Why are some countries so rich while other countries are so poor?” Theoretical and empirical investigation considering factors that affect living standards such as population growth, physical capital and human capital accumulation, the state of technology, geography and the availability of natural resources, and culture and governmental policies. PREREQ: ADM/PROG or PERM/INST.

ECON 574 SUSTAINABILITY AND ECONOMIC POLICY (3-0-3)(S). Presents concepts, theories, data and empirical findings critical for analyzing sustainability problems and developing solutions in communities, cities, countries and regions. Explores how economics relates to the three pillars of sustainability: economic, social and environmental, emphasizing tradeoffs and synergies across the pillars. Topics may include: the meaning and history of sustainable development and the link between sustainability and well-being; sustainability indicators and metrics; natural resource (green) accounting; the valuation of biodiversity and ecosystem services; climate change; urbanization and sustainability; and business, international finance and sustainability. PREREQ: ADM/PROG or PERM/INST.
Department of Educational Technology
College of Education

Department Head: Brett Shelton
Associate Department Head: Charleen Snelson
Education Building, Room 305
(208) 426-1966 (phone)
bretshelton@boisestate.edu (email)

Graduate Faculty: Back, Ching, Friesen, Hsu, Hung, Lowenthal, Perkins, Rice, Shelton, Snelson, Trespalacios, Uribe-Florez, Yang

Graduate Degrees Offered

- Doctor of Education in Educational Technology
- Education Specialist in Educational Technology
- Master of Educational Technology
- Master of Science in Educational Technology
- Graduate Certificate in Educational Gaming and Simulations
- Graduate Certificate in Online Teaching
- Graduate Certificate in School Technology Coordination
- Graduate Certificate in Technology Integration Specialist

DOCTOR OF EDUCATION IN EDUCATIONAL TECHNOLOGY

Program Coordinators: Ross Perkins and Lida Uribe-Flórez
Education Building, Room 312
(208) 426-4875 (phone)
edtechdoc@boisestate.edu (email)

General Information

The doctoral program in educational technology, leading to an EdD degree, has as its goal the development of innovative leaders in the field. Students in this program explore the use of current and emerging technologies for effective and efficient teaching in a dynamic, global society. Areas of particular focus include online teaching and learning, technology integration, academic technology leadership, innovative teaching in K-12 and higher education, educational software development for the web and mobile platforms, and educational gaming and simulations.

Application Deadline

Submit application and admission materials well in advance of the deadline to ensure the application is complete by the deadline:
- February 1 (summer admission only)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree and a master's degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree and master's degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree and a graduate (GPA) of 3.50 (based on a 4-point scale) computed for all graduate credits.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of application that adheres to the guidelines linked from the EdD Program Application page.
3. A current résumé or curriculum vitae.
4. Official Graduate Record Examinations (GRE) General Test scores (test must have been taken in the last five years).
5. A writing sample.
6. Three letters of recommendation.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Courses</strong></td>
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<tr>
<td>EDTECH 601 Doctoral Studies Orientation</td>
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<tr>
<td>EDTECH 602 Emerging Trends in Educational Technology</td>
<td>3</td>
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<tr>
<td>EDTECH 603 Global and Cultural Perspectives in Educational Technology</td>
<td>3</td>
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<tr>
<td>EDTECH 604 Leadership in Educational Technology</td>
<td>3</td>
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<tr>
<td>EDTECH 605 Project Management in Educational Settings</td>
<td>3</td>
</tr>
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<td><strong>Research Courses</strong></td>
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<tr>
<td>EDTECH 650 Research in Educational Technology</td>
<td>3</td>
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<tr>
<td>EDTECH 651 Introduction to Statistics for Educational Technology</td>
<td>3</td>
</tr>
<tr>
<td>EDTECH 652 Quantitative Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDTECH 653 Qualitative Research Methods</td>
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<td><strong>Research Elective</strong></td>
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<tr>
<td>A graduate-level research course applicable to education, educational technology, or a related field.</td>
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<tr>
<td><strong>Cognate Area</strong></td>
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</tr>
<tr>
<td>A series of three graduate courses (from a relevant field) that are connected by a common thread or theme.</td>
<td>9</td>
</tr>
<tr>
<td><strong>Innovation Experience</strong></td>
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<tr>
<td>EDTECH 640 Innovative Practices in Educational Technology</td>
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<tr>
<td><strong>Electives</strong></td>
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<tr>
<td>Graduate courses in education, educational technology, or a related field; all courses are selected with student input and approved by the supervisory committee.</td>
<td>12</td>
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<tr>
<td><strong>Culminating Examination</strong></td>
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<td>EDTECH 691 Doctoral Comprehensive Examination</td>
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<td><strong>Culminating Activity</strong></td>
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<td>EDTECH 693 Dissertation</td>
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<td><strong>Total</strong></td>
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Residency

Students in the online Doctor of Education in Educational Technology program are not required to be physically present on campus for classes, presentations, etc. A doctoral advisor, committee chair, or the doctoral program coordinator has the right to require an in-person meeting with the student should one be necessitated by advisory issues. Students are required to be enrolled in six graduate credit hours per semester for the first two years of the program, and they must be enrolled in at least one credit hour every semester thereafter until successfully defending the dissertation (even if all courses and thesis hours are complete).
EDUCATION SPECIALIST IN EDUCATIONAL TECHNOLOGY

Program Coordinator: Ross Perkins
Education Building, Room 312
(208) 426-4875 (phone)
edtechdoc@boisestate.edu (email)

General Information
The Education Specialist in Educational Technology, leading to an EdS, will serve the needs of master's degree-holding K-20 teachers through advanced instruction in the theory, research, and hands-on skills. Students in the program will become more effective in the classroom and in technology leadership roles and will become specialists in one of several cognates, such as technology integration, blended and online teaching, educational games, e-learning design, and school technology leadership.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree and a master's degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree and master's degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.50 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree. Academic background must also be judged by the program coordinator as adequate for enrollment in graduate courses in education and educational technology.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. A letter of application including background in educational technology/education/training/instructional design or thorough explanation of change in fields, how the EdS degree will ameliorate current knowledge and professional practice, and a specific project the applicant would consider doing as part of a culminating activity.
3. A current résumé or curriculum vitae.
4. Completion of the Program Development Form.
5. Two letters of recommendation.

Degree Requirements

<table>
<thead>
<tr>
<th>Education Specialist in Educational Technology</th>
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<tbody>
<tr>
<td>Course Number and Title</td>
<td>Credits</td>
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<tr>
<td>Core Requirements</td>
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<tr>
<td>EDTECH 602 Emerging Trends in Educational Technology</td>
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<tr>
<td>EDTECH 604 Leadership in Educational Technology</td>
<td>3</td>
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<td>EDTECH 650 Research in Educational Technology</td>
<td>3</td>
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<tr>
<td>EDTECH 651 Introduction to Statistics for Educational Technology</td>
<td>3</td>
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<tr>
<td>Cognate</td>
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<tr>
<td>Available cognates include technology integration, blended and online teaching and learning, educational games and simulations, e-learning design, and technology leadership.</td>
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<td>Electives</td>
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<td>Culminating Activity</td>
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<td>EDTECH 680 Education Specialist Final Project</td>
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<td>Total</td>
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MASTER'S DEGREE PROGRAMS IN EDUCATIONAL TECHNOLOGY

General Information
There are two master's degrees offered in the Department of Educational Technology. Both degrees support the study and practice of facilitating and improving learning of a diverse population by creating, using, managing, and evaluating appropriate technological processes and resources. Believing technology is a tool that enhances and expands the educational environment, we promote the use of current and emergent technologies for teaching and learning in a dynamic global society. Educational technologists are leaders and innovators, serving in institutions of higher education, public or private school settings, federal, state or local educational agencies, community organizations, and the private sector.

The Master of Educational Technology is practitioner oriented, culminating in a portfolio. The Master of Science in Educational Technology is research oriented, with the program designed specifically to give students in-depth experience with empirical study in the field. The MS thesis is the culminating project, which represents original research or development in educational technology. The thesis must be first successfully proposed and then defended with written and oral examinations.
MASTER OF EDUCATIONAL TECHNOLOGY

Graduate Program Coordinator: Chareen Snelson
Student Outreach Services Manager: Kellie Branson
Education Building, Room 304
(208) 426-4055 (phone)
kbranson@boisestate.edu (email)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree. Academic background must also be judged by the program coordinator as adequate for enrollment in graduate courses in education and educational technology.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A essay describing educational and professional background, career goals, and how the coursework will help you to attain them. Also, tell us why you are choosing our program and why you will be a successful graduate student.
3. Completion of the Program Development Form.

Degree Requirements

<table>
<thead>
<tr>
<th>Master of Educational Technology</th>
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<tbody>
<tr>
<td>Course Number and Title</td>
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<tr>
<td>Requirements</td>
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<tr>
<td>EDTECH 501 Introduction to Educational Technology</td>
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<tr>
<td>EDTECH 502 The Internet for Educators</td>
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<tr>
<td>EDTECH 503 Instructional Design</td>
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<tr>
<td>EDTECH 504 Theoretical Foundations of Educational Technology</td>
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<td>EDTECH 505 Evaluation for Educational Technologists</td>
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<td>Electives</td>
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<td>A list of approved electives is maintained on the Department of Educational Technology website <a href="http://edtech.boisestate.edu">http://edtech.boisestate.edu</a>.</td>
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<td>Culminating Activity</td>
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<td>EDTECH 592 Portfolio</td>
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</table>

MASTER OF SCIENCE IN EDUCATIONAL TECHNOLOGY

Graduate Program Coordinator: Ross Perkins
Education Building, Room 312
(208) 426-4875 (phone)
rossperkins@boisestate.edu (email)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree. Academic background must also be judged by the program coordinator as adequate for enrollment in graduate courses in education and educational technology.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. An essay describing educational and professional background, career goals, and how the coursework will help you to attain them. Also, tell us why you are choosing our program and why you will be a successful graduate student.
3. A personal statement that also includes a specific rationale for a research-based degree.
4. Completion of the Program Development Form.

Degree Requirements

<table>
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<tr>
<th>Master of Science in Educational Technology</th>
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<tbody>
<tr>
<td>Course Number and Title</td>
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<tr>
<td>Requirements</td>
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<tr>
<td>EDTECH 501 Introduction to Educational Technology</td>
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<tr>
<td>EDTECH 502 The Internet for Educators</td>
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<td>EDTECH 503 Instructional Design</td>
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<td>EDTECH 504 Theoretical Foundations of Educational Technology</td>
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<td>EDTECH 650 Research in Educational Technology</td>
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<td>EDTECH 651 Introduction to Statistics for Educational Technology</td>
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<td>Electives</td>
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<td>A list of approved electives is maintained on the Department of Educational Technology website <a href="http://edtech.boisestate.edu">http://edtech.boisestate.edu</a>.</td>
</tr>
<tr>
<td>Culminating Activity</td>
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<td>EDTECH 593 Thesis</td>
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GRADUATE CERTIFICATE IN EDUCATIONAL GAMING AND SIMULATIONS

Graduate Program Coordinator: Yu-Chang Hsu
Student Outreach Services Manager: Kellie Branson
Education Building, Room 304
(208) 426-4055 (phone)
kbranson@boisestate.edu (email)

General Information

The Graduate Certificate in Educational Gaming and Simulations program is designed for those who wish to: analyze recent research and best practices for effective teaching and learning with educational games and with simulations in virtual worlds; design, teach, and evaluate teaching and learning activities in virtual worlds; and, design 2D and 3D games for learning and evaluate for educational effectiveness. Students admitted to the certificate program are required to be familiar with all policies of the Graduate College that govern graduate certificate programs.

Admission Requirements

Admission to the certificate program requires a baccalaureate degree from a regionally accredited college or university and admission to the Graduate College. In addition, the academic background of the applicant must be judged by the graduate program coordinator as adequate for enrollment in graduate courses in education and educational technology. However, meeting these minimum requirements does not guarantee admission to the certificate program.

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree. Academic background must also be judged by the program coordinator as adequate for enrollment in graduate courses in education and educational technology.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. An essay describing professional and educational background, career goals and how coursework will help to attain them.
3. Completion of the Program Development Form.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>EDTECH 511 Interactive Courseware Development</td>
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<tr>
<td>EDTECH 532 Educational Games and Simulations</td>
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<td>EDTECH 536 Educational Game Design</td>
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<tr>
<td>EDTECH 531 Teaching and Learning in Virtual Worlds</td>
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<td>EDTECH 535 Digital Engagement for Learning</td>
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<td>EDTECH 534 Mobile App Design for Teaching and Learning</td>
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<tr>
<td>EDTECH 563 Quest-based Learning Design</td>
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<tr>
<td>EDTECH 564 Gamified Augmented Reality and Mobile</td>
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<td>EDTECH 565 Advanced Educational Game Design</td>
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<td><strong>Total</strong></td>
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Special Relationships with Other Programs

A student may be simultaneously enrolled in any graduate degree program (EdD, EdS, MSET, or MET) and the Graduate Certificate in Educational Gaming and Simulations program subject to the approval of the chair of the student’s supervisory committee and the graduate program coordinators of both programs.

A student who is not enrolled in any graduate degree program at Boise State University may be enrolled in the Graduate Certificate in Educational Gaming and Simulations program and one other graduate certificate program.

GRADUATE CERTIFICATE IN ONLINE TEACHING

Graduate Program Coordinator: Chareen Snelson
Student Outreach Services Manager: Kellie Branson
Education Building, Room 304
(208) 426-4055 (phone)
kbranson@boisestate.edu (email)

General Information

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

Admission Requirements

Admission to the certificate program requires a baccalaureate degree from a regionally accredited U.S. college or university and admission to the Graduate College. In addition, the academic background of the applicant must be judged by the graduate program coordinator to be adequate for enrollment in graduate courses in education and educational technology. However, meeting these minimum requirements does not guarantee admission to the certificate program.

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree. Academic background must also be judged by the program coordinator as adequate for enrollment in graduate courses in education and educational technology.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. An essay describing professional and educational background, career goals and how coursework will help to attain them.
3. Completion of the Program Development Form.
Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tr>
<td>For teachers of K-12 students</td>
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<td>EDTECH 521 Online and Blended Teaching in the K-12 Environment</td>
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<tr>
<td>EDTECH 523 Advanced Online and Blended Teaching or</td>
<td></td>
</tr>
<tr>
<td>For teachers of adult learners</td>
<td></td>
</tr>
<tr>
<td>EDTECH 512 Online Course Design</td>
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<tr>
<td>EDTECH 522 Online Teaching for Adult Learners</td>
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<td>A list of approved electives is maintained on the Department of Educational Technology website [<a href="https://edtech.boisestate.edu">https://edtech.boisestate.edu</a>].</td>
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</table>

Special Relationships with Other Programs

A student may be simultaneously enrolled in any graduate degree program (EdD, EdS, MSET, or MET) and the Graduate Certificate in Online Teaching program subject to the approval of the chair of the student's supervisory committee and the graduate program coordinators of both programs.

A student who is not enrolled in any graduate degree program at Boise State University may be enrolled in the Graduate Certificate in Online Teaching program and one other graduate certificate program.

GRADUATE CERTIFICATE IN SCHOOL TECHNOLOGY COORDINATION

Graduate Program Coordinator: Chareen Snelson
Student Outreach Services Manager: Kellie Branson
Education Building, Room 304
(208) 426-4055 (phone)
kbranson@boisestate.edu (email)

General Information

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

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree. Academic background must also be judged by the program coordinator as adequate for enrollment in graduate courses in education and educational technology.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. An essay describing professional and educational background, career goals and how coursework will help to attain them.
3. Completion of the Program Development Form.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>EDTECH 501 Introduction to Educational Technology</td>
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<tr>
<td>EDTECH 551 Technical and Grant Writing</td>
<td>3</td>
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<td>EDTECH 552 Introduction to Network Administration</td>
<td>3</td>
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<td>EDTECH 554 Managing Technology Integration in Schools</td>
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</tbody>
</table>

Special Relationships with Other Programs

A student may be simultaneously enrolled in any graduate degree program (EdD, EdS, MSET, or MET) and the Graduate Certificate in School Technology Coordination program subject to the approval of the chair of the student's supervisory committee and the graduate program coordinators of both programs.

A student who is not enrolled in any graduate degree program at Boise State University may be enrolled in the Graduate Certificate in School Technology Coordination program and one other graduate certificate program.
Graduate Certificate in Technology Integration Specialist

Graduate Program Coordinator: Chareen Snelson
Student Outreach Services Manager: Kellie Branson
Education Building, Room 304
(208) 426-4036 (phone)
kbranson@boisestate.edu (email)

General Information

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

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree. Academic background must also be judged by the program coordinator as adequate for enrollment in graduate courses in education and educational technology.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. An essay describing professional and educational background, career goals and how coursework will help to attain them.
3. Completion of the Program Development Form.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTECH 502 Creating Educational Websites</td>
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<tr>
<td>EDTECH 541 Integrating Technology into the Classroom Curriculum</td>
<td>3</td>
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<td>EDTECH 542 Technology-Supported Project-Based Learning</td>
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Special Relationships with Other Programs

A student may be simultaneously enrolled in any graduate degree program (EdD, EdS, MSET, or MET) and the Graduate Certificate in Technology Integration Specialist program subject to the approval of the chair of the student's supervisory committee and the graduate program coordinators of both programs.

A student who is not enrolled in any graduate degree program at Boise State University may be enrolled in the Graduate Certificate in Technology Integration Specialist program and one other graduate certificate program.

Idaho K-12 Online Teaching Endorsement

K-12 Online Teaching Endorsement Coordinator: Kerry Rice
Student Outreach Services Manager: Kellie Branson
Education Building, Room 304
(208) 426-4036 (phone)
kbranson@boisestate.edu (email)

General Information

The endorsement in K-12 online teaching is a state approved endorsement program open to licensed teachers in the state of Idaho. Eligibility requirements are available on the program website: https://edtech.boisestate.edu/. A student can be recommended for the endorsement to the Idaho State Department of Education after all requirements have been met. The Educational Technology program offers both a credit and a competency-based option for completion. Credits for the endorsement can be applied to Educational Technology degree programs.

Course Offerings

EDTECH—Educational Technology

EDTECH 501 INTRODUCTION TO EDUCATIONAL TECHNOLOGY (3-0-3) (F/S/SU). Overview of the field of educational technology emphasizing current issues, leadership in technology use planning, and evaluation/synthesis of research.

EDTECH 502 CREATING EDUCATIONAL WEBSITES (3-0-3) (F/S/SU). Design and develop instructional web pages using HTML, CSS, and Adobe Dreamweaver. Apply instructional strategies when creating educational websites while taking into consideration issues of copyright and accessibility.

EDTECH 503 INSTRUCTIONAL DESIGN (3-0-3) (F/S/SU). Focuses on systematic design of instruction and alternative models based on learning theories and research. Emphasis is placed on effective planning, developing, and evaluating the instructional process. Project required.

EDTECH 504 THEORETICAL FOUNDATIONS OF EDUCATIONAL TECHNOLOGY (3-0-3) (F/S/SU). Overview of classic and contemporary theories of learning and their applications in educational technology and emerging orientations; implications for practice. PREREQ: EDTECH 501.

EDTECH 505 EVALUATION FOR EDUCATIONAL TECHNOLOGISTS (3-0-3) (F/S/SU). Procedures for evaluating educational programs, training systems, and emergent-technology applications. PREREQ: EDTECH 501, EDTECH 503.

EDTECH 506 GRAPHIC DESIGN FOR LEARNING (3-0-3) (F/S/SU). Select, arrange, and design visual representations (e.g., text, graphics, tables) based on theories, models, and principles of visual literacy and graphic design.

EDTECH 511 INTERACTIVE COURSEWARE DEVELOPMENT (3-0-3) (F/S/SU). Learning the tools for development of instructional courseware, which is the graphic interface for delivery of online instruction. Development of functional and instructionally effective courseware. PREREQ: EDTECH 503 or PERM/INST.

EDTECH 512 ONLINE COURSE DESIGN (3-0-3) (F/S/SU). Emphasizes web-based instructional design for the development of online courses. Consideration is given to various models of online delivery, content organization and presentation, and graphic design. Course participants create a fully developed online course. PREREQ: EDTECH 502 or PERM/INST.

EDTECH 513 MULTIMEDIA (3-0-3) (F/S/SU). Research-based principles of multimedia learning are combined with technical skills of multimedia production to produce a series of digital multimedia projects for classroom and online applications.

EDTECH 521 ONLINE AND BLENDED TEACHING IN THE K-12 ENVIRONMENT (3-0-3) (F/S/SU). Examines research-supported practices in online and blended classrooms. Emphasizes technology supported teaching and learning, classroom management, lesson design, learner engagement, and individualized instruction.

EDTECH 522 ONLINE TEACHING FOR ADULT LEARNERS (3-0-3) (F/S/SU). Emphasizes andragogy and best practice in online teaching, analyzing online teaching tools, planning, facilitating, and assessing collaborative and interactive e-learning experiences, and gaining practical experience teaching online.
EDTECH 523 ADVANCED ONLINE AND BLENDED TEACHING (3-0-3) (F/S/SU). Utilizes a project-based approach emphasizing content-specific instructional strategies, improved communication, assessment, and evaluation of quality learning experiences in technology supported online and blended instruction. Experience with web-based conference tools recommended. Project required. PREREQ: EDTECH 521 or EDTECH 522.

EDTECH 524 FIELD EXPERIENCE IN ONLINE TEACHING (0-0-3) (F/S). Observation/field experience in a K-12 online classroom. (Pass/Fail.) PREREQ: PERM/INST.

EDTECH 531 TEACHING AND LEARNING IN VIRTUAL WORLDS (3-0-3) (F/S/SU). Explores teaching and learning in virtual worlds. Project-based design, facilitation, and evaluation of instruction, research, and other resources.

EDTECH 532 EDUCATIONAL GAMES AND SIMULATIONS (3-0-3) (F/S/SU). Explores the theory and implementation of educational games, simulations, and virtual environments for improved instructional engagement. Includes evaluation methods and socio-cultural implications.

EDTECH 533 YOUTUBE FOR EDUCATORS (3-0-3) (F/S/SU). Produce educational video for YouTube using digital video cameras and editing software. Design and develop appropriate instructional activities that integrate online video. Examine the benefits and controversial aspects of video sharing in the classroom.

EDTECH 534 MOBILE APP DESIGN FOR TEACHING AND LEARNING (3-0-3) (F/S/SU). Students leverage the potential of mobile technologies by exploring, analyzing, and designing mobile apps for use in various settings such as teaching, learning, and work.

EDTECH 535 DIGITAL ENGAGEMENT FOR LEARNING (3-0-3) (F/S/SU). Provides an overview of instructional elements in digital engagement (e.g., cartoons, TV programs, movies, and digital games). Students conduct research on the practical application of digital engagement in classroom settings through experimentation and play.

EDTECH 536 EDUCATIONAL GAME DESIGN (3-0-3) (F/S/SU). Provides novice students with programming opportunities for designing an instructional digital game. Students enter, analyze, and modify source codes that are provided and create a new game, focusing on short and simple games for selected platforms.

EDTECH 537 BLOGGING IN THE CLASSROOM (3-0-3) (F/S/SU). Focuses on the use of blogs in education, including creating and maintaining blogs, using RSS readers and microblogging. Examines the nature and purpose of blogging, types of blog entries, blog promotion, disclosure guidelines, and building a blogging community.

EDTECH 538 MAKER TECH: PHYSICAL COMPUTING FOR STEAM EDUCATION (3-0-3) (F/S/SU). Analyze, make, and apply maker tech for teaching and learning contexts. Leverage the power of programming and tinker with digital and physical artifacts for learning/practicing/applying knowledge in science, technology, art, engineering, and mathematics (STEAM).

EDTECH 541 INTEGRATING TECHNOLOGY INTO THE CLASSROOM CURRICULUM (3-0-3) (F/S/SU). Examination and practice in technology integration strategies in classroom environments, using various applications, instructional, and productivity software, evaluating tools and resources, and developing integrated instructional activities.

EDTECH 542 TECHNOLOGY-SUPPORTED PROJECT-BASED LEARNING (3-0-3) (F/S/SU). Examines the Project-Based Learning Model, including development of PBL-based instructional units that engage learners in projects requiring investigation, analysis, synthesis, and presentation in real-world scenarios.

EDTECH 543 SOCIAL NETWORK LEARNING (3-0-3) (F/S/SU). Explore collaborative and emergent pedagogies, tools, and theory related to the use of social networks in learning environments. Gain hands-on experience with a variety of social networking tools, create a community-based resource, and develop a global professional network for educational technologists.

EDTECH 551 TECHNICAL AND GRANT WRITING (3-0-3) (F/S/SU). Project-based instruction entailing various kinds of technical writing, all focusing on a completed grant proposal. Includes evaluating writing for print versus electronic display. Additional focus on writing proficiencies, as needed.

EDTECH 552 INTRODUCTION TO NETWORK ADMINISTRATION (3-0-3) (F/S/SU). Introduction to technical competencies for school technology coordinators, addressing network administration, topography, and devices. Preparation for the CCENT (Cisco Certified Entry Networking Technician) or CCNA (Cisco Certified Network Associate) certificate.

EDTECH 554 MANAGING TECHNOLOGY INTEGRATION IN SCHOOLS (3-0-3) (F/S/SU). Explores strategies for planning and implementing technology integration on an organizational level and examines larger scale professional development models. Develops skills for taking a leadership role in district technology use planning, implementation and assessment.

EDTECH 563 QUEST-BASED LEARNING DESIGN (3-0-3) (F/S/SU). Emphasizes the knowledge, skills, and pedagogy of quest based learning as applied to emerging gaming techniques and technologies.

EDTECH 564 GAMIFIED AUGMENTED REALITY AND MOBILE (3-0-3) (F/S/SU). Analysis of emerging technologies that combine virtual and augmented realities, with specific support for mobile applications.

EDTECH 565 ADVANCED EDUCATIONAL GAME DESIGN (3-0-3) (F/S/SU). Examines advanced digital games design for K-12 implementations. PREREQ: EDTECH 536.

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

EDTECH 582 SELECTED TOPICS: ONLINE TEACHING (Variable 1-3) (F/S/SU). Developing an online teaching portfolio, evaluation of online teaching competencies, etc. as part of the requirement of K-12 Online Teaching Endorsement. (Pass/Fail.) PREREQ: PERM/INST.

EDTECH 601 DOCTORAL STUDIES ORIENTATION (3-0-3) (F/S/SU). Introduction to the purpose and nature of doctoral studies in educational technology. Explores processes and procedures specific to the degree program, tools for collaboration and research, conferences and journals in the field, and graduate faculty research initiatives. Must be taken in first semester enrolled in doctoral program. PREREQ: ADM/PROG.

EDTECH 602 EMERGING TRENDS IN EDUCATIONAL TECHNOLOGY (3-0-3) (F/S/SU). Explores current topics and trends in educational technology research and their applications. Reviews literature and practices to identify emerging trends in the field.

EDTECH 603 GLOBAL AND CULTURAL PERSPECTIVES IN EDUCATIONAL TECHNOLOGY (3-0-3) (F/S/SU). Explores the implementation of information and communications technologies (ICT) in educational systems outside of the United States. Examines promises and challenges of ICT integration in both developed and developing countries as impacted by different contexts.

EDTECH 604 LEADERSHIP IN EDUCATIONAL TECHNOLOGY (3-0-3) (F/S/SU). Examines principles that guide innovative leadership of educational technology programs and initiatives. Focuses on the synthesis of theories, models, and processes that guide policy creation and active project implementation. Emphasis on team building, organizational psychology, people and resources, and change management.

EDTECH 605 PROJECT MANAGEMENT IN EDUCATIONAL SETTINGS (3-0-3) (F/S/SU). Introduction to best practices and principles related to the management of projects in educational organizations (all levels, traditional or online). Emphasis on team building and leadership, establishing relationships, benchmarks and evaluative practices. Review and use of various project management software tools. PREREQ: EDTECH 601.
EDTECH 640 INNOVATIVE PRACTICES IN EDUCATIONAL TECHNOLOGY (variable 1-3 credits) (F/S/SU). The application of skills and knowledge about educational technology to a novel challenge, issue, or context directly related to the field. A proposal that addresses practical dimensions of the problem, their relationship to theoretical constructs, learning goals, and project management details is required before students can enroll in the course. Culminating activities include a work log and a final reflective paper in addition to other artifacts that may be required. May be repeated for credit. (Pass/Fail.) PREREQ: PERM/INST.

EDTECH 650 RESEARCH IN EDUCATIONAL TECHNOLOGY (3-0-3) (F/S/SU). Examines the foundations for and processes of conducting research using quantitative and qualitative approaches. Emphasizes critical steps in the process of research, reviewing and analyzing research studies in educational technology.

EDTECH 651 INTRODUCTION TO STATISTICS FOR EDUCATIONAL TECHNOLOGY (3-0-3) (F/S/SU). Measures of central tendency and variability, one and two sample tests, confidence intervals, chi-square, introduction to bivariate correlation, and analysis of variance. PREREQ: EDTECH 650 or doctoral status.

EDTECH 652 QUANTITATIVE RESEARCH METHODS (3-0-3) (F/S/SU). Overview of quantitative research approaches in educational research. Covers concepts of, and practice with, parametric and non-parametric tests and predictive analysis. Introduction to experimental design, survey sampling, and advanced statistical analysis. Purchase of statistical analysis software is required. PREREQ: EDTECH 561.

EDTECH 653 QUALITATIVE RESEARCH METHODS (3-0-3) (F/S/SU). Overview of qualitative research approaches in educational research. Reviews the theory, epistemological assumptions, and application of major methodologies. Focuses on developing skills in creating field notes, planning and conducting interviews, collecting relevant artifacts, analyzing data, and writing reports. Introduction to computer-assisted qualitative data analysis.

EDTECH 660 EDUCATION SPECIALIST FINAL PROJECT (3-0-3) (F/S/SU). Culminating activity for the Education Specialist in Educational Technology (EdS) program. The student-generated project topic must be approved by program coordinator prior to enrollment. Final project is a substantial written product and multi-media representation(s) of the work. Taken after all EdS core courses and cognate courses have been completed. (Pass/Fail.) PREREQ: PERM/INST.

EDTECH 662 ADVANCED QUANTITATIVE RESEARCH METHODS (3-0-3) (F/S/SU). Explores advanced concepts of quantitative theory and data analysis methods. Guides selection and application of multiple, appropriate levels of analysis to selected research questions. Purchase of statistical analysis software is required. PREREQ: EDTECH 651, EDTECH 652.

EDTECH 663 ADVANCED QUALITATIVE RESEARCH METHODS (3-0-3) (F/S/SU). Explores specific qualitative methodologies in depth. Extensive practice in analysis of data based on a selected qualitative tradition, followed by the presentation of results. Focuses on the development, planning, and conduct of an applicable project. Includes further practice with computer-assisted qualitative data analysis. PREREQ: EDTECH 653

EDTECH 671 DATA MINING RESEARCH METHODS FOR EDUCATION (3-0-3) (F/S/SU). Introduction to fundamental algorithms and methodologies for data mining and machine learning. Topics include techniques in pattern discovery and predictive modeling. PREREQ: EDTECH 562, EDTECH 652.

EDTECH 672 DESIGN-BASED RESEARCH (3-0-3) (F/S/SU). Study and application of design-based research methodology, aimed to improve educational practices through iterative analysis, design, development, implementation, and generation back to theory. Emphasis on collaboration among researchers and practitioners in real-world settings. PREREQ: EDTECH 650.

EDTECH 680 EDUCATION SPECIALIST FINAL PROJECT (3-0-3) (F/S/SU). Culminating activity for the Education Specialist in Educational Technology (EdS) program. The student-generated project topic must be approved by program coordinator prior to enrollment. Final project is a substantial written product and multi-media representation(s) of the work. Taken after all EdS core courses and cognate courses have been completed. (Pass/Fail.) PREREQ: PERM/INST.
Department of Electrical and Computer Engineering

College of Engineering

Chair: Jim Browning
Engineering Building, Room 240
(208) 426-5788 (phone)
(208) 426-2470 (fax)
cee@boisestate.edu (email)

Graduate Faculty: Ahmed-Zaid, Barney Smith, Browning, Campbell, Cantley, Chen, Chiasson, Kuang, Loo, Mehrpouyan, Mitkova, Rafa, Salzman, Subbaraman, Smith, Welch

Graduate Degrees Offered

- Doctor of Philosophy in Electrical and Computer Engineering
- Master of Engineering in Electrical and Computer Engineering
- Master of Science in Electrical and Computer Engineering

DOCTOR OF PHILOSOPHY IN ELECTRICAL AND COMPUTER ENGINEERING

Doctoral Program Coordinator: Kris Campbell
Engineering Building, Room 224
(208) 426-5968 (phone)
(208) 426-2470 (fax)
kriscampbell@boisestate.edu (email)
https://ceen.boisestate.edu/ece (website)

General Information

The Department of Electrical and Computer Engineering (ECE) offers a Doctor of Philosophy (PhD) degree in Electrical and Computer Engineering. The degree requires completion of a prescribed course of study in ECE, satisfactory performance on the comprehensive examination and dissertation proposal, and original research resulting in a publicly-defended dissertation that contributes to the discipline. Please refer to Regulations for the Doctor of Philosophy Programs in the front of this catalog for additional information.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree or master’s degree in electrical and computer engineering or closely related field from an ABET-accredited program or from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree or master’s degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A two-page statement of teaching and research interests. The statement should include educational and professional background, motivation for graduate study, and career goals.
3. A current résumé or curriculum vitae.
4. Official Graduate Record Examinations (GRE) General Test scores. Applicants who received a baccalaureate degree from Boise State's College of Engineering are not required to submit GRE scores.
5. Submit TOEFL or IELTS examination scores for non-native English speakers.
6. Completion of the Student Research Area Preferences Form.
7. Three letters of recommendation from academic or professional references.

Graduate Assistantships

The ECE department's priority application deadline for fall admission is February 1; the priority deadline for spring admission is August 1. All applications received by this date are automatically considered for funding. Late applications, including those submitted for spring admission, may be considered at the department's discretion. Funding is awarded on a competitive basis. All offers are subject to change as dictated by availability of funds.

Degree Requirements

The program of study for the PhD in ECE requires at least 66 credits beyond the bachelor's degree or 44 credits beyond a master's degree, and adhere to all policies and procedures of the Graduate College. Courses applied to meet the 66-credit minimum requirement must be taken for a letter grade (A-F), except for ECE 691 Doctoral Comprehensive Examination (graded pass/fail), ECE 689 Dissertation Proposal (graded pass/fail), and ECE 693 Dissertation (initially graded IP - In Progress and later graded P or F depending upon the outcome of the dissertation defense). Credit for coursework must be distributed as shown in the degree requirements table. For those entering the program with a master's degree, no more than 22 credits of previous graduate coursework can be applied as course credit. For a student entering with a bachelor's degree, a maximum of 9 credits of post baccalaureate coursework can be applied towards the PhD program. Each student's program of study must be approved by their supervisory committee.

<table>
<thead>
<tr>
<th>Doctor of Philosophy in Electrical and Computer Engineering</th>
<th>Credits</th>
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<tbody>
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<td>ECE 500 Applied Electromagnetics</td>
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<td>ECE 510 Digital Integrated Circuit Physical Design</td>
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<tr>
<td>ECE 520 Advanced Device Design and Simulation</td>
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<tr>
<td>ECE 530 Digital Hardware Design</td>
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<td>ECE 650 Stochastic Signals and Systems</td>
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<td>ECE 660 Linear Systems</td>
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<td><strong>Emphasis (Minor) Area</strong></td>
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<td><strong>Electives (with supervisory committee approval)</strong></td>
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<td><strong>Dissertation Proposal</strong></td>
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</table>

Areas of Concentration

Six areas of concentration are available in electrical and computer engineering. These areas of concentration are denoted by the middle digit of the course number of ECE courses: Computer engineering (middle digit 3), circuits and devices (middle digit 1 or 2), power and control (middle digit 6 or 7), electromagnetics and optics (middle digit 0 or 8), semiconductor processes and devices (middle digit 2 or 4), and signals and systems (middle digit 5 or 6).

Major and Emphasis (Minor) Areas

At least 12 credits of coursework are required in a major area of concentration. These credits are to be earned in graduate courses selected from one of the six areas defined above. In addition, at least 6 additional credits of graduate coursework is required in an emphasis (minor) area selected from a second area of concentration as defined in the list above.
Doctoral-Level Courses
At least 12 course credits must be at the 600-level. The 600-level course credits may be counted towards core course requirements, major-area courses, minor-area courses, or approved electives.

MASTER OF ENGINEERING/MASTER OF SCIENCE

General Information
The ECE Department offers two distinct engineering graduate degree programs. The first leads to a Master of Engineering in Electrical and Computer Engineering (MEngr in ECE). This is a non-thesis program with a focus on professional development. The second program leads to a Master of Science in Electrical and Computer Engineering (MS in ECE) and is designed to prepare students for research and further study at the doctoral level.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree in electrical and computer engineering or closely related field from an ABET-accredited program or from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended
2. A two-page statement of purpose and research interests. The statement should include educational and professional background, motivation for graduate study, and career goals.
3. A current résumé or curriculum vitae.
4. Official Graduate Record Examinations (GRE) General Test scores. Applicants who received a baccalaureate degree from Boise State’s College of Engineering are not required to submit GRE scores.
5. Submit TOEFL or IELTS examination scores for non-native English speakers.
6. Completion of the Student Research Area Preferences Form.
7. Three letters of recommendation.

Degree Requirements
Students must complete at least 31 graduate credits distributed as shown in the degree requirements table. All courses must be approved by the advisor and supervisory committee. A maximum of 3 credits of ECE 696 Directed Research may be applied to meet degree requirements. The culminating activity for the M. Engr. degree is the Comprehensive Examination (ECE 690). The comprehensive exam is to be taken after all core courses have been completed. The comprehensive examination cannot be attempted prior to the last semester of the program. If the comprehensive examination is failed on the first attempt, then the student will be permitted a second attempt. Failure on the second attempt will result in dismissal from the program.

<table>
<thead>
<tr>
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<td>Graduate Courses Related to Electrical and Computer Engineering</td>
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Master of Engineering in Electrical and Computer Engineering
MASTER OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING

Graduate Program Coordinator: Hao Chen
Micron Engineering Center, Room 202E
(208) 426-1020 (phone)
haochen@boisestate.edu (email)

Degree Requirements

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

### Master of Science in Electrical and Computer Engineering

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Courses Related to Electrical and Computer Engineering</td>
<td>15-24</td>
</tr>
<tr>
<td>Graduate courses in electrical engineering, computer engineering, or computer science; all courses to be selected with student input and approved by supervisory committee.</td>
<td></td>
</tr>
<tr>
<td>Other Graduate Courses</td>
<td>0-9</td>
</tr>
<tr>
<td>Graduate courses in electrical and computer engineering or related field; all courses to be selected with student input and approved by the supervisory committee.</td>
<td></td>
</tr>
<tr>
<td>Culminating Activity</td>
<td></td>
</tr>
<tr>
<td>ECE 593 Thesis</td>
<td>6</td>
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<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

Course Offerings

**ECE—Electrical and Computer Engineering**

**ECE 500 APPLIED ELECTROMAGNETICS (3-0-3)(S).** An applied study of electromagnetic theory and its applications to wave propagation in bounded structures, scattering and diffraction, antenna theory, S-parameters, and microwave engineering.

**ECE 510 DIGITAL INTEGRATED CIRCUIT DESIGN (3-0-3)(F).** An introduction to CMOS IC design, layout, and simulation. MOSFET operation and parasitics. Digital design fundamentals: digital logic families, latches, flip-flops, sequential logic and datathroughput subsystems. EDA tools for design, simulation, parasitic extraction and chip tape-out.

**ECE 511 CMOS ANALOG IC DESIGN (3-0-3)(S).** An introduction to CMOS analog integrated circuit design. High-frequency models for MOSFET, current mirrors, voltage references, negative feedback systems and stability, amplifiers, frequency compensation and op-amps. PREREQ: ECE 410 or ECE 510.

**ECE 513 RF DESIGN (3-0-3)(S).** Design of wireless systems and RF circuits including amplifiers, oscillators, mixers, filters, and matching networks. Comparison of semiconductor device type characteristics and applications. Use of various analysis, simulation, characterization, and measurement tools for low-noise design, stability analysis, distortion analysis and mitigation, frequency synthesis, and transmission line characterization.

**ECE 518 MEMORY AND PLL IC DESIGN (3-0-3)(S)(Odd Years).** Transistor-level design of memory and clock synchronization circuits: DRAM, SRAM, Flash, and ReRAM, design and analysis of Phase-locked Loops (PLLs), Delay-locked Loops (DLLs) and Clock-Data Recovery (CDR) circuits. PREREQ: ECE 410 or ECE 510.

**ECE 520 ADVANCED DEVICE DESIGN AND SIMULATION (3-0-3)(S).** Energy band formation, semiconductor carrier statistics, and carrier transport including recombination and generation mechanisms. Physical operation and design of metal-semiconductor contacts, pn-junction diodes, MOS capacitors, and MOSFETs with both analytical and numerical approaches. Scaling rules, short-channel effects, and nanoscale transistors are also discussed.

**ECE 521 ADVANCED TOPICS IN SEMICONDUCTOR DEVICES (3-0-3)(F/S).** Study of advanced semiconductor devices, particularly photonic, microwave, power, and high temperature/radiation resistant devices, including physics and applications. TCAD simulation and modeling of these devices will be included. PREREQ: ECE 420/520.

**ECE 522 MICROWAVE SEMICONDUCTOR DEVICES (3-0-3)(F/S).** Covers the various aspects of design, fabrication, and characterization of ultra-low-power, RF-CMOS devices. Short-channel CMOS device physics, Parasitic CMOS device elements, Advanced small-signal bulk and SOI RF-CMOS device models, Ultra-low-power device and circuit design techniques, On-wafer microwave measurement and calibration techniques, and S-parameter device evaluation methods. PREREQ: ECE 420/520.

**ECE 530 DIGITAL HARDWARE DESIGN (3-0-3)(F).** Advanced topics in digital system design emphasizing the specification and design of complex digital hardware systems. Applications include design of synchronous state machines, asynchronous digital systems, and simple digital control circuits using hardware descriptive languages for field programmable gate arrays and complex programmable logic.

**ECE 532 (CS 541) COMPUTER ARCHITECTURE (3-0-3)(S).** Structure of computer systems using processors, memories, input/output (I/O) devices as building blocks. Computer system instruction set design and implementation, including memory hierarchies, microprogramming, pipelining and multiprocessors. Issues and tradeoffs involved in the design of computer system architectures with respect to the design of instruction sets. Applications of hardware description languages (HDL) in the design of computer systems. May be taken for CS or ECE credit, but not both. PREREQ for CS 541: regular admission to Doctor of Philosophy in Computing or Master of Science in Computer Science.

**ECE 533 EMBEDDED AND PORTABLE COMPUTING SYSTEMS (3-0-3)(F/S).** Comparison of commercially available microcontrollers and their use in embedded communications and control applications. Power consumption, software development, interprocessor communication, and interfacing with sensors, actuators, and input/output devices. Use of microcontroller cores implemented in programmable logic devices as an alternative to hardwired microcontrollers. An embedded system project is designed and built.

**ECE 534 COMPUTER NETWORKS (3-0-3)(F/S).** Concepts of computer networks and architectures. Network topology, connectivity analysis, delay analysis, local access design. Physical layer, data link layer, higher layer protocols. Study of networks as distributed embedded systems. Routing, flow control, congestion control. Local area networks.

**ECE 535 SYSTEMS FOR MULTIMEDIA PROCESSING (3-0-3)(F/S).** Study of the general information theory and its applications in speech, imaging, and video processing. Focuses on the underlying structures and architectures for efficient algorithm implementation of video and speech processing systems. Current and future trends in processing, storing, coding, decoding, restoring, and transmission of multimedia information. PREREQ: ECE 457 or ECE 557, and ECE 430 or ECE 530.

**ECE 536 DIGITAL SYSTEMS RAPID PROTOTYPING (3-0-3)(F/S).** Use of hardware description languages and hardware programming languages as a practical means to simulate/implement hybrid sequential and combinational systems. Rapid prototyping techniques will be utilized during the implementation. This course focuses upon the actual design and implementation of sizeable digital design problems using the most up-to-date industry Computer Aided Design tools and Field-programmable Gate Arrays. PREREQ: ECE 430/530.
ECE 537 ASIC CHIP DESIGN (3-0-3)(F/S). Study of phases of ASIC development implementing standard, specialized and DSP applications. Course covers specifications and pre-design analysis mapping design units into architectures, evaluation of early design choices using CAD behavioral synthesis tools and design libraries, simulation, functional and timing verification issues, synthesis, design optimization, testing, and evaluation. The course supports individual and group projects to build ASICs implementing RISC/DSPI/Superscalar/Fuzzy Logic based systems using standard ASIC design CAD tools. PREREQ: ECE 430/530 and ECE 432/532.

ECE 540 INTRO TO INTEGRATED CIRCUIT PROCESSING (3-0-3)(F). Fundamentals of integrated circuit fabrication technology; semiconductor substrates; theory of unit processes such as diffusion, oxidation, ion implantation, rapid thermal processing, photolithography, wet etching and cleaning, dry etching, thin-film deposition; chemical mechanical polishing; process integration; metrology; statistical process control; TCAD. COREQ: ECE 540L.

ECE 540L INTRO TO INTEGRATED CIRCUIT PROCESSING LAB (0-3-1)(F). Semiconductor clean-room practices including safety requirements, processes such as oxidation and diffusion, film deposition, photolithography, wet and dry etching, and chemical mechanical polishing. Fabrication and test of simple structures in lab. COREQ: ECE 540.

ECE 541 ADVANCED TOPICS IN SILICON TECHNOLOGY (3-0-3)(S). Advanced technologies for unit processes such as diffusion, oxidation, ion implantation, rapid thermal processing, photolithography, wet etching and cleaning, dry etching, thin-film deposition; chemical mechanical polishing; and lithography. CMOS, bipolar, and process integration. PREREQ: ECE 440 or ECE 540.

ECE 542L PHOTOLITHOGRAPHY LAB (0-3-1)(F/S). Cleanroom lab experience accompany ECE 542, utilizing a projection-printing wafer stepper, photoresist wafer track, SEM, and optical metrology equipment. Use of TCAD lithography simulation software. COREQ: ECE 542.

ECE 542L PHOTOLITHOGRAPHY LAB (0-3-1)(F/S). Cleanroom lab experience accompany ECE 542, utilizing a projection-printing wafer stepper, photoresist wafer track, SEM, and optical metrology equipment. Use of TCAD lithography simulation software. PREREQ: ECE 342. COREQ: ECE 542.

ECE 543 INTRODUCTION TO MEMS (3-0-3)(F/S). Overview of MEMS; MEMS device physics including beam theory, electrostatic actuation, capacitive and piezoresistive sensing, thermal sensors and actuators; basic MEMS fabrication techniques; MEMS technologies: bulk micromachining, surface micromachining, and LIGA; MEMS design and modeling; case studies in various MEMS systems. PREREQ: ECE 440 or ECE 540.

ECE 551 COMMUNICATION SYSTEMS (3-0-3)(S). Signals, noise, propagation and protocol in analog and digital communication systems. Bandwidth, Fourier transforms, signal to noise ratio and receiver noise figures. Introduction to modern wireless communication systems such as cellular, wireless data and satellite data systems.

ECE 552 WIRELESS COMMUNICATIONS (3-0-3)(F). Modern cellular communication systems, including propagation, handoff, noise, and interference studies. CDMA and other spread-spectrum systems. PREREQ: ECE 451 or ECE 551.


ECE 561 (ME 561) CONTROL SYSTEMS (3-0-3)(S). Time and frequency domain analysis and design of feedback systems using classical and state space methods. Observability, controllability, pole placement, and observers. May be taken for ECE or ME credit, but not both.

ECE 564 ROBOTICS AND AUTOMATED SYSTEMS (3-0-3)(F/S). An introduction to robotics with emphasis on automated systems applications. Topics include: basic components of robotic systems; selection of coordinate frames; homogeneous transformations; solutions to kinematic equations; velocity and force/torque relations; manipulator dynamics; digital simulation of manipulator motion; motion planning; actuators of robots; sensors of robots; obstacle avoidance; and control design.

ECE 570 ELECTRIC MACHINES (3-0-3)(S). Magnetic materials and magnetic circuits, Transformers. Principles of electromechanical energy conversion, energy and coenergy concepts, forces and torques of electromagnetic origin. Introduction to rotating machines including synchronous machines and induction machines.

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

ECE 573 POWER SYSTEM ANALYSIS I (3-0-3)(F). Three-phase AC systems, generators, transformers, transmission lines, one-line diagrams, per-unit system, network calculations, load flow studies, power system operation.

ECE 574 POWER SYSTEM ANALYSIS II (3-0-3)(S). Power system stability, symmetrical components, power system transients, protection and controlling, transient stability, power system operation and control, power system economics, power quality, and power system reliability. PREREQ: ECE 473 or ECE 573.

ECE 601 ADVANCED ELECTROMAGNETIC THEORY (3-0-3)(S) (Even years). Advanced topics in static and dynamic electromagnetic field theory for engineering applications including bounded structures and radiators; solution of scalar and vector boundary value problems; Kirchhoff radiation theory; geometrical diffraction theory, and numerical methods. PREREQ: ECE 500.

ECE 602 PLASMA AND ELECTRON DEVICES (3-0-3)(F) (Even years). Advanced topics in plasma devices including plasma waves, plasma generation, and device applications for plasma processing and vacuum electronics. Advanced topics in microwave vacuum electron devices including oscillators and amplifiers for both high power and high frequency. PREREQ: ECE 500 and ECE 603.

ECE 603 PLASMA ENGINEERING (3-0-3)(F) (Odd years). An introduction to plasma principles and the use of plasma in semiconductor processing. The course provides an introduction to the basic concepts of the Debye length, plasma sheaths, and the properties of waves in plasmas. The principles involved in the chemistry and the physical aspects of plasma discharges are covered related to etch, deposition, and ion implantation.

ECE 614 ADVANCED ANALOG IC DESIGN (3-0-3)(F) (Even years). Advanced analog design consideration including: noise analysis, feedback, fully-differential opamp design and simulation, behavioral modeling, switched capacitor circuits design and simulation, sample-and-hold circuits, offset-cancellation, autozeroing, and chopping. Comparators, introduction to Nyquist-rate ADCs (Flash, pipelined, SAR, folding) and DACs. PREREQ: ECE 411 or ECE 511.

ECE 615 MIXED-SIGNAL IC DESIGN (3-0-3)(F) (Odd years). Data Conversion and spectral estimation fundamentals, delta-sigma modulator (DSM) architectures, decimation filters, discrete-time (switched-capacitor) as well continuous-time (CT) DSM design, cascaded DSMs, bandpass and complex DSMs. Behavioral modeling, simulation and circuit non-idealities in DSMs. PREREQ: ECE 411 or ECE 511.
ECE 621 ELECTRICAL CHARACTERIZATION (3-0-3)(Offered as Justified). A focus on theoretical and practical considerations associated with fundamental electrical measurement techniques used to characterize common semiconductor materials and devices. Includes current-voltage and capacitance-voltage methods for determining properties such as resistivity and doping density, oxide charge, interface trap density, contact/series resistance, and carrier mobility. An integrated lab component will involve measurement of devices including four-point probe structures, diodes, metal-oxide-semiconductor (MOS) capacitors, and MOSFETs.

ECE 624 AMORPHOUS SEMICONDUCTOR DEVICES (3-0-3)(Offered as Justified). Introduction to amorphous semiconductor devices including defects, gap states, electronic transport, optical properties, photodetector, and applications.

ECE 625 ORGANIC ELECTRONIC DEVICES (3-0-3)(Offered as Justified). Introduction to organic-based devices, challenges, and recent advances. Topics include metal-molecule interfaces and electron transfer considerations, physics of organic semiconductors, molecular functional groups, and their electrical properties, challenges and considerations of device fabrication, recent advances and emerging materials, and applications ranging from photovoltaics, flexible solar cells, and sensors to emerging applications. Topics can be varied depending upon interest.

ECE 629 QUANTUM EFFECTS IN MOS DEVICES (3-0-3)(F/S). Computational methods will be used to examine quantum mechanical effects in MOS devices. Effects such as tunneling, triangular quantum well effects and poly-Si depletion will be examined. PREREQ: ECE 320 and PHYS 310.

ECE 630 DIGITAL SYSTEMS VERIFICATION (3-0-3)(S)(Odd years). Application-oriented and practical aspects of digital hardware design verification methods, including traditional functional simulation, assertion-based verification methodology and a subset of formal verification techniques. Topics include functional simulation, coverage metrics, testbench design and automation, and event-and assertion-based verification. PREREQ: ECE 530.

ECE 631 DIGITAL SYSTEM TESTING AND TESTABLE DESIGN (3-0-3)(F/S). In-depth theory and practice of fault analysis, test set generation, and design for testability of digital systems. Topics include system modeling; fault sources and types; fault simulation methods; automatic test pattern generation (ATPG) for combinatorial and sequential circuits; testability measures; design-for-testability; scan design; test compression methods; logic-level diagnosis; built-in self-testing (BIST); VLSI testing issues; processor and memory testing. Advance research issues, including topics on mixed signal testing are also discussed. PREREQ: ECE 430/530, and ECE 410/510.

ECE 632 ADVANCED COMPUTER ARCHITECTURE (3-0-3)(F/S). Study of up-to-date multiprocessor systems and parallel computing architectures. Covers basic architectural concepts and their performance evaluation, design principles of VLIW and superscalar architectures, multithread and data-flow computers, shared and distributed memory MIMDS, associative and neural architectures. Focuses on significant trends in building systems on a chip. PREREQ: ECE 432/532.

ECE 634 LARGE SCALE DISTRIBUTED SYSTEMS DESIGN (3-0-3)(F/S). Fundamental principles, critical issues and latest techniques involved in the design of advanced computer controlled systems. Emphasizes using design requirements, hardware-software tradeoffs, redundancy, and testability to develop highly reliable systems. Topics include software/hardware tradeoffs, memory hierarchy design, calculation of availability, simulation, and communication requirements. Tools and techniques used to develop systems. Incorporates case studies of actual systems. A design project will be included and consists of designing a system driven by embedded computers. PREREQ: ECE 432/532.

ECE 635 HARDWARE IMPLEMENTATION OF DSP ALGORITHMS (3-0-3)(F/S). Implementation methods of DSP algorithms in programmable logic environment. Hardware required for DSP implementation: architectures; arithmetic; digital filters including FIR, IIR and CIC. Course will also cover the efficient implementation of these algorithms and their impact on the implementation process and product costs. PREREQ: ECE 454/554 and ECE 430/530.

ECE 636 HARDWARE/SOFTWARE CODESIGN (3-0-3)(F/S). Covers system level design of embedded systems with a top-down design approach. The students will learn various design steps starting from system specifications to hardware/software implementation and will experience process optimization while considering various design decisions. Students will gain design experience with project/case studies using contemporary high-level methods and tools. PREREQ: ECE 430/530.

ECE 637 SYSTEM ON A PROGRAMMABLE CHIP (3-0-3)(F/S). Covers the design of embedded system within a single integrated circuit. Such a system consists of multiple intellectual property cores interconnected by common infrastructure. This course will also explore the challenges to design and test a complete system on chip. Exercises/projects will be given to design, synthesize, and simulate using modern computer aided design (CAD) tools. Resulting systems will be targeted in reprogrammable hardware. PREREQ: ECE 430/530.

ECE 640 ADVANCED MICROFABRICATION (3-0-3)(F/S). Advanced micro/nano-fabrication techniques; advanced process modeling and simulation of thermal processes, ion implantation, thin-film deposition, dry etching, CMP, and lithography; CMOS/device integration; process variability and control; metrology; parametric test. PREREQ: ECE 440/540.

ECE 646 FRONTIERS OF IC PROCESSING (3-0-3)(F/S). Recent and proposed developments in semiconductor process technology Course modules: Lithography, Deposition, Doping and Etch processes. PREREQ: ECE 440/540.

ECE 650 STOCHASTIC SIGNALS AND SYSTEMS (3-0-3)(S). Probability theory for countable and uncountable sample spaces. Topics include random variables, conditional probability, independence, transformation of random variables and their distributions, conditional expectation, mean-square estimation and the orthogonality principle. Stochastic processes studied include Bernoulli, geometric, Poisson, white noise, random walk, and Brownian motion.

ECE 651 INFORMATION AND CODING THEORY (3-0-3)(F/S). Information measures, characterization of information sources, coding for discrete sources, the noiseless coding theorems, construction of Huffman codes. Discrete channel characterization, channel capacity, noisy-channel coding theorems, reliability exponents, and rate distortion theory. PREREQ: ECE 451 or ECE 551, and ECE 650.

ECE 652 ADVANCED COMMUNICATIONS THEORY (3-0-3)(F/S). Principles of modern communication systems. Elements of information theory, source encoding, efficient signaling with coded waveforms, convolutional codes; carrier recovery and synchronization under AGN channel; adaptive equalization; maximum likelihood estimation, Viterbi algorithm. PREREQ: ECE 451 or ECE 551, and ECE 650.

ECE 657 ADVANCED DIGITAL IMAGE PROCESSING (3-0-3)(F/S). Advanced course in digital image processing. Topics will include image storage formats, image compression techniques, acquisition system calibration, geometric transformations, edge detection and image segmentation, adaptive techniques, video, halftoning, 3D images and topics of specific student interest. PREREQ: ECE 557 or equivalent.

ECE 660 LINEAR SYSTEMS (3-0-3)(F). Methods of analysis for linear time-invariant systems. Topics include linear algebra, concept of state, modes, controllability, observability, canonical forms, state transition matrices, transfer functions, minimal realizations, and state feedback for trajectory tracking and disturbance rejection.


ECE 666 MULTIVARIABLE CONTROL SYSTEMS (3-0-3)(S). Linearization of state variable models. Time response of linear time invariant

**ECE 670 ELECTRIC MACHINE DYNAMICS (3-0-3)(F)(Odd years).**

**ECE 671 POWER SYSTEM DYNAMICS (3-0-3)(S)(Even years).**

**ECE 672 CONTROL OF ELECTRIC MACHINES (3-0-3)(F)(Even years).**

**ECE 681 MMIC DESIGN (3-0-3)(F/S).**
Technology, design and analysis of monolithic microwave integrated circuits; passive and active microwave circuit elements; high frequency substrates, individual design projects utilize modern computer-aided design software. PREREQ: ECE 500.

**ECE 682 QUANTUM ELECTRONICS (3-0-3)(F).**
Quantized electromagnetic field, interaction of radiation and atomic systems, laser oscillation, semiconductor lasers, parametric amplification, phase conjugate optics. PREREQ: PHYS 412 or PHYS 512.
Department of English

College of Arts and Sciences

Chair: Mac Test
Associate Chair: Casey Keck
Liberal Arts Building, Room 228
(208) 426-3426 (phone)
(208) 426-4373 (fax)
https://english.boisestate.edu (website)

Graduate Faculty: Busu Thakur, Campbell, Clare, Douglas, Estrem, Finseth, Fredricksen, Hansen, Harvey, Hillard, Hindrichs, Keck, Mallette, Moneyhun, Mukherjee, Munger, Myers, Olsen-Smith, Payne, Penny, Ramirez, Shepherd, Shuck, Temkin Martinez, Test, Thornes, Uehling, Westover, Wilhelm, Zaerr

Graduate Degrees Offered

- Master of Arts in English, Literature
- Master of Arts in English, Rhetoric and Composition
- Master of Arts in Teaching English Language Arts
- Master of Arts in Technical Communication
- Graduate Certificate in Technical Communication

MASTER OF ARTS IN ENGLISH

Director MA in English: Dora Ramirez
Liberal Arts Building, Room 209D
(208) 426-7081 (phone)
doraramirez@boisestate.edu (email)
https://english.boisestate.edu/mai/ (website)

General Information

The MA in English program at Boise State University is large enough to provide variety, yet small enough for flexibility in planning a course of study and for a collegial atmosphere. The department's graduate faculty teach on all levels in addition to pursuing interests in scholarship, writing, editing, and related activities.

The Master of Arts in English program has two emphases:

1. The Master of Arts in English, Literature has a 15-hour core of required literature courses, but also includes 15-21 hours of electives that may be drawn from other areas of the English program. It serves students interested in future doctoral work in Literature or any career where reading, writing, and analytical skills are needed;
2. The Master of Arts in English, Rhetoric and Composition provides students with a strong foundation in both rhetorical theory and composition pedagogy. It prepares students for doctoral work in rhetoric and composition, as well as careers where reading, writing, and analytical skills are needed, including teaching writing at the community college level.

Students should consult with the director of the MA in English to help determine which emphasis meets their career goals.

The Department of English provides excellent computer labs, including three administered by the department itself, for word processing, desktop publishing, and network access to online resources and information about library holdings in the United States and abroad.

The Hemingway Center, administered by the Department of English, is another campus resource. It is the home of the Idaho Center for the Book, affiliated with the Library of Congress. The Center also oversees the Idaho Writers’ Archive.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree in English (in lieu of this, an applicant must demonstrate a strong background in the field) from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for the last sixty credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A 500-700 word essay explaining applicant’s goals in pursuing graduate study in English.
3. A current résumé or curriculum vitae.
4. Official Graduate Record Examinations (GRE) General Test scores.
5. A writing sample of 8-10 pages (preferably academic) completed within the past two years. A professional writing sample of similar length (grant proposal, newsletter, business report) may be substituted if undergraduate work was completed more than one year ago. Writing samples must be accompanied by a brief statement of context for which the writing was done.
6. Three letters of recommendation from people who know the applicant’s work.

Graduate Assistantships

The Department of English offers graduate assistantships in teaching and in the Writing Center. These assistantships offer a waiver of tuition and fees, including out-of-state tuition, and in addition carry a stipend. Complete applications for assistantships are due January 15. In order to be considered for an assistantship, applicants must also submit all materials required for admission to the MA in English program by that date. Applicants should plan to apply to the program and have all materials submitted well before this deadline.
Degree Requirements

Master of Arts in English, Literature

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>The Master of Arts in English, Literature offers two options for completion of the degree. The first is a 33-hour thesis/project option, which requires 15 hours of core courses and 15 hours of general electives plus a 3-credit thesis, project, or portfolio. This option is designed particularly for students who plan to continue their studies in a doctoral program, and others who wish to engage in an intensive research and writing experience. The other is a 36-hour course work degree, which includes 15 hours of core requirements and 21 hours of general electives. This degree is designed for students who wish to study a wide range of literature, rhetoric and composition, linguistics, English Education and/or Technical Communication courses.</td>
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<tr>
<td>Core Requirements</td>
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<tr>
<td>ENGL 500 Research Methods in Literary Studies</td>
<td>3</td>
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<tr>
<td>ENGL 510 Seminar in Major American or English Writer</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 530 Studies in a Literary Period</td>
<td>6</td>
</tr>
<tr>
<td>ENGL 588 Survey of Critical Theory</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
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<tr>
<td>To be selected from other graduate Offerings in Literature, Linguistics, English Education, Rhetoric and Composition, Creative Writing, and Technical Communication. The electives may include ENGL 598 Seminar (Teaching Assistants), a maximum of six credits of ENGL 400G courses, and a maximum of three credits of independent work in ENGL 590, ENGL 595, and/or ENGL 596.</td>
<td>15</td>
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<tr>
<td>Culminating Activity</td>
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<tr>
<td>Thesis, Portfolio, or Project</td>
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<tr>
<td>Students take 3 credits of ENGL 591 Project, ENGL 592 Portfolio or ENGL 593 Thesis in their final semester. With the help of an advisor, the student selects a thesis or project topic or develops material for inclusion in a portfolio and prepares a prospectus before the student’s final semester. After completion of the thesis, portfolio, or project, the student must pass an oral defense.</td>
<td>3-6</td>
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<tr>
<td>Course Work</td>
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<tr>
<td>Students take six additional hours of electives as described above, for a total of 21 hours of electives.</td>
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<tr>
<td>Total</td>
<td>33-36</td>
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Master of Arts in English, Rhetoric and Composition

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core Courses</td>
<td></td>
</tr>
<tr>
<td>ENGL 554 Methods for Research in Writing and Rhetoric</td>
<td>3</td>
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<tr>
<td>ENGL 555 Writing in Rhetoric and Composition Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 561 Composition Theory and Practice</td>
<td>3</td>
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<tr>
<td>ENGL 562 Theories of Rhetoric</td>
<td>3</td>
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<tr>
<td>Writing and Rhetoric Electives</td>
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<tr>
<td>Courses to be selected from the following:</td>
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<tr>
<td>CW 524 Creative Nonfiction Writing Workshop</td>
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<td>CW 534 Form and Theory of Creative Nonfiction</td>
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<tr>
<td>ENGL 502 Teaching Creative Nonfiction, Poetry, and Fiction Writing</td>
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<td>ENGL 511 Rhetorical Theory for Workplace Writers</td>
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<td>ENGL 513 Technical Editing</td>
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<td>ENGL 515 Visual Rhetoric and Information Design</td>
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<td>ENGL 516 Topics in Print Document Production</td>
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<td>ENGL 536 Proposal Development</td>
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<tr>
<td>ENGL 537 Writing for Social Media and Online Communities</td>
<td></td>
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<tr>
<td>ENGL 545 Contemporary Issues and Institutional Contexts in Rhetoric and Composition (repeatable once)</td>
<td>6</td>
</tr>
<tr>
<td>Writing, Teaching, and Learning Electives</td>
<td></td>
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<tr>
<td>Courses to be selected from the following:</td>
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<tr>
<td>ENGL 501 The Teaching of Writing</td>
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<tr>
<td>ENGL 503 Writing Center Pedagogy and Administration</td>
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<tr>
<td>ENGL 540 Issues in Writing, Teaching, and Learning (repeatable once)</td>
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<tr>
<td>ENGL 567 Grammar and the Teaching of Writing: Theory and Practice</td>
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<tr>
<td>ENGL 582 Selected Topics in Teaching English Language Arts (when topic involves writing instruction)</td>
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<tr>
<td>ENGL 590 Practicum/Internship</td>
<td></td>
</tr>
<tr>
<td>ENGL 598 Seminar (Teaching Assistants)</td>
<td>6</td>
</tr>
<tr>
<td>English Electives</td>
<td></td>
</tr>
<tr>
<td>To be selected from graduate Offerings in Literature, Linguistics, Rhetoric and Composition, Technical Communication, Creative Writing and English Education. The electives may include a maximum of three credits of independent work in ENGL 595, ENGL 596, and ENGL 696.</td>
<td>6</td>
</tr>
<tr>
<td>Culminating Activity</td>
<td></td>
</tr>
<tr>
<td>ENGL 591 Project or ENGL 592 Portfolio or ENGL 593 Thesis</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>33</td>
</tr>
</tbody>
</table>
Degree Requirements

Master of Arts in Teaching English Language Arts

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing/Composing Courses to be selected from the following:</td>
<td>6-9</td>
</tr>
<tr>
<td>ED-LCC 545 Writing Processes, Instruction, and Assessment: K-8</td>
<td></td>
</tr>
<tr>
<td>ENGL 501 The Teaching of Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 502 Teaching Creative Nonfiction, Poetry and Fiction Writing</td>
<td></td>
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<tr>
<td>ENGL 561 Composition Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>ENGL 562 Theory of Rhetoric</td>
<td></td>
</tr>
<tr>
<td>ENGL 579 Boise State Writing Project Invitational Institute</td>
<td></td>
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<tr>
<td>ENGL 582 Selected Topics in Teaching English Language Arts</td>
<td></td>
</tr>
<tr>
<td>(when topic concerns writing instruction)</td>
<td></td>
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<tr>
<td>ENGL 594 Workshop (concerning writing instruction)*</td>
<td></td>
</tr>
</tbody>
</table>

| Reading/Literature Courses to be selected from the following: | 6-9 |
| ED-LCC 541 Assessment and Instruction: Reading Difficulties K-12 | |
| ED-LCC 546 Advanced Children’s Literature | |
| ED-LCC 547 Advanced Young Adult Literature | |
| ENGL 581 Language for use in Junior and Senior High Schools | |
| ENGL 582 Selected Topics in Teaching English Language Arts | |
| (when topics reading/literature instruction) | |
| ENGL 594 Workshop (concerning reading/literature instruction)* (credits vary) | |

| Language Study/Linguistics Courses to be selected from the following: | 6-9 |
| ED-LCC 548 Psycholinguistics and Literacy | |
| ENGL 505 Linguistics | |
| ENGL 567 Grammar and the Teaching of Writing: Theory and Practice | |
| ENGL 582 Selected Topics in Teaching English Language Arts | |
| (when topic concerns language/grammar instruction) | |
| ENGL 585 Selected Topics in Linguistics | |
| ENGL 594 Workshop (concerning language instruction)* | |

| Research Courses to be selected from the following: | 3 |
| ED-LCC 557 Research Base for Contemporary Literacy Curricula | |
| ENGL 500 Research Methods in Literary Studies | |
| ENGL 554 Methods for Research in Writing and Rhetoric | |
| ENGL 577, 578 Teacher Research in Literacy I and II | |
| ENGL 582 Selected Topics in Teaching English Language Arts (when topic concerns teacher research methods) | |

Electives to bring total graduate-level courses to 30 credits. Use courses from English, Literacy, or other approved courses. * 0-9

Culminating Activity

ENGL 592 Portfolio 3

Total 33

*The total number of credits cannot exceed 10 for ENGL 590, 594-598, 696, 697, and any pass-fail and undergraduate courses (or equivalent transfer credits); see Restrictions on Certain Courses for details. No more than 6 credits of 400-level G courses may be counted toward the degree. No teacher in-service credits may be used.
MASTER OF ARTS IN TECHNICAL COMMUNICATION

Director of Technical Communication: Roger Munger
Liberal Arts Building, Room 227
(208) 426-4211 (phone)
rmunger@boisestate.edu (email)
https://english.boisestate.edu/techcomm/ (website)

General Information

Technical communication is a human-centered discipline in which people create, shape, and communicate technical information so that other people can use it safely, effectively, and efficiently. The Master of Arts in Technical Communication prepares students for careers in writing, editing, designing, presenting, and managing information in the technical, scientific, medical, environmental, and not-for-profit fields. Our students focus on the rhetorical elements of technical and workplace communication, drawing on such disciplines as rhetoric and composition theory, linguistics, STEM communication, cognitive psychology, sociology, interaction design, human factors engineering, and cultural and gender studies. Courses in writing, editing, visual rhetoric, and user experience prepare students for subsequent elective courses chosen based on a student’s academic and career goals. While some students might seek careers writing software documentation, others might develop content for websites, blogs, proposals, and interactive social media. They might work as a solo writer for a local not-for-profit or work with a team of developers located around the globe. Or, they may become online community managers or documentation developers for software, gaming, or entertainment studios. The MATC degree provides an interdisciplinary approach to technical communication so that students can customize their own academic paths. Students without workplace experience as a technical communicator and those who want to explore different areas of the profession may also complete a three-credit internship.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A 1,000 word statement describing why the applicant wishes to enter the program.
3. A current résumé.
4. Three letters of recommendation from employers or professors.

Graduate Assistantships

The Department of English offers graduate assistantships in teaching and in the Writing Center. These assistantships offer a waiver of tuition and fees, including out-of-state tuition, and in addition carry a stipend. Complete applications for assistantships are due January 15. In order to be considered for an assistantship, applicants must also submit all materials required for admission to the MA in English program by that date. Applicants should plan to apply to the program and have all materials submitted well before this deadline.

Degree Requirements

The course of study for the Master of Arts in Technical Communication consists of 31 hours of required courses, electives, and a culminating portfolio. To fulfill the elective requirements, you may take additional graduate courses in technical communication or another discipline; however, you may apply to the degree no more than six credits in subjects other than technical communication. Your electives will be chosen by you and your advisor.

<table>
<thead>
<tr>
<th>Master of Arts in Technical Communication</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 511 Rhetorical Theory for Workplace Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 512 Technical Rhetoric and Applications</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 513 Technical Editing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 515 Visual Rhetoric and Information Design</td>
<td>3</td>
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<tr>
<td>ENGL 535 User Experience</td>
<td>3</td>
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<tr>
<td>Electives</td>
<td>15</td>
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<tr>
<td>ENGL 516 Topics in Print Document Production</td>
<td></td>
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<tr>
<td>ENGL 518 Writing Software Documentation</td>
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<tr>
<td>ENGL 519 Technical Publications Management</td>
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<tr>
<td>ENGL 521 Topics in On-screen Document Production</td>
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<tr>
<td>ENGL 536 Proposal Development</td>
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<tr>
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<tr>
<td>ENGL 590 Internship</td>
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</table>

Students who wish to substitute up to two alternative courses outside of the technical communication program may petition the Director of Technical Communication.

Culminating Activity

| ENGL 592 Portfolio | 1 |
| Total | 31 |

Graduate Assistantships

The Department of English offers graduate assistantships in teaching and in the Writing Center. These assistantships offer a waiver of tuition and fees, including out-of-state tuition, and in addition carry a stipend. Complete applications for assistantships are due January 15. In order to be considered for an assistantship, applicants must also submit all materials required for admission to the MA in English program by that date. Applicants should plan to apply to the program and have all materials submitted well before this deadline.

Degree Requirements

The course of study for the Master of Arts in Technical Communication consists of 31 hours of required courses, electives, and a culminating portfolio. To fulfill the elective requirements, you may take additional graduate courses in technical communication or another discipline; however, you may apply to the degree no more than six credits in subjects other than technical communication. Your electives will be chosen by you and your advisor.

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<tr>
<td>ENGL 590 Internship</td>
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</table>

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Culminating Activity

| ENGL 592 Portfolio | 1 |
| Total | 31 |
GRADUATE CERTIFICATE IN TECHNICAL COMMUNICATION

Director of Technical Communication: Roger Munger
Liberal Arts Building, Room 227
(208) 426-4211 (phone)
munger@boisestate.edu (email)
https://english.boisestate.edu/techcomm/ (website)

General Information

The Graduate Certificate in Technical Communication is intended for students enrolled in any graduate degree program and for local professionals. A graduate student in geophysics, for instance, might wish to earn the certificate because he knows that he will be making presentations at professional conferences and writing journal articles. An accountant might wish to improve her technical communication skills to enhance her work performance. The certificate enables students to choose a unified, coherent group of courses in technical communication and related fields from other disciplines that will improve their understanding of the public role of written communication and their on-the-job skills.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

- Official transcripts from all colleges attended.
- A 500 word statement explaining how the certificate relates to their broader educational goals.
- A current résumé.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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</thead>
<tbody>
<tr>
<td>ENGL 512 Technical Rhetoric and Applications</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 513 Technical Editing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 535 User Experience</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 511 Rhetorical Theory for Workplace Writers</td>
<td>6</td>
</tr>
<tr>
<td>ENGL 515 Visual Rhetoric and Information Design</td>
<td></td>
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<tr>
<td>ENGL 516 Topics in Print Document Production</td>
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<td>ENGL 537 Writing for Social Media and Online Communities</td>
<td></td>
</tr>
<tr>
<td>ENGL 590 Internship</td>
<td></td>
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</tbody>
</table>

Students who wish to substitute an alternative course for one of the two listed electives may petition the Director of Technical Communication.

Total 15

Course Offerings

ENGL 401G ADVANCED NONFICTION WRITING (3-0-3)(F/S).
Advanced practice in nonfiction genres, and study of how writers read and learn from other writers. Experimentation with subjects, voice, organization, and style. Students may take the course twice, for a total of 6 credits. Students seeking graduate credit will produce a greater quantity and high quality of original work, will have a separate and more extensive reading list, and will be expected to participate more fully in class activities. PREREQ: ENGL 201.

ENGL 500 RESEARCH METHODS IN LITERARY STUDIES (3-0-3)(F/S).
An introduction to research techniques and resources in advanced literary study. The course includes the use of bound and electronic reference sources, methods of bibliography and textual criticism, the significance of biographical, archival, and historical evidence in literary study, and standard conventions of scholarly documentation. PREREQ: ADM/PROG or PERM/INST.

ENGL 501 THE TEACHING OF WRITING (3-0-3)(F/S). Theories and methods of teaching writing with focus on secondary school. Emphasis on research about the learning process in writing and the teacher's role in creating effective writing instruction. COREQ: ENGL 581.

ENGL 502 TEACHING CREATIVE NONFICTION, POETRY, AND FICTION WRITING (3-0-3)(F/S). Theories and practices for teaching secondary school students, college students, and others how to write in genres such as creative nonfiction, poetry, and fiction. Emphasis is on teaching in classroom and workshop settings. PREREQ: ADM/PROG or PERM/INST.

ENGL 503 WRITING CENTER PEDAGOGY AND ADMINISTRATION (3-0-3)(F). Emphasis on composition theory, writing pedagogy, and writing program administration as they pertain to tutoring and writing center work. A writing-center-based empirical research project is required. Includes tutoring and administrative duties in the Boise State Writing Center. PREREQ: PERM/INST.

ENGL 505 LINGUISTICS (3-0-3)(F/S)(Alternate years). Modern linguistic theories and their application to literature and teaching English. An examination of how various grammatical models represent the complexities of language sound, sequence, and structure. Application of theory to language at work. Alternate years. PREREQ: ADM/PROG or PERM/INST.

ENGL 509 (CW 509) BOOK ARTS (3-0-3)(S). A historical survey of various aspects of bookmaking, including papermaking, typography, printing, binding, and desktop publishing, as well as book distribution/marketing, and production of artist's and eccentric bookworks. Course culminates in production of a classroom edition of each student's original writings or art works in an appropriate format devised by the student. PREREQ: Admission to program or PERM/INST.

ENGL 510 SEMINAR IN MAJOR AMERICAN OR ENGLISH WRITER (3-0-3)(F/S). A consideration of minor and major artistic creations of an author with attention to major influences on the writer and his/her influences on others. Aspects of investigation to include the life of the author and his or her relationship to the culture and society of the times, his/her place and stature in the genres in which he/she worked, his/her use or disregard of tradition, as well as an investigation of contemporary criticism and critical evaluation since the writer's time. Repeatable for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 511 RHETORICAL THEORY FOR WORKPLACE WRITERS (3-0-3)(F). An introduction to rhetorical theories and concepts relevant to workplace settings, such as rhetorical genre theory, applied linguistics, ethics, and the rhetoric of science. Interdisciplinary approaches include cultural studies, STEM communication, linguistics, psychology, and sociolinguistics.

ENGL 512 TECHNICAL RHETORIC AND APPLICATIONS (3-0-3)(S).
An advanced study of technical communication for those students who are or expect to become professional technical communicators. Topics of study include modern theories of rhetoric, focusing on semantics, syntax, readability, pragmatics, and hypertext. Students will write reports, proposals, manuals, and online documents related to their own backgrounds and fields of interest. PREREQ: ADM/PROG or PERM/INST.
ENGL 513 TECHNICAL EDITING (3-0-3)(F). An advanced course in the editing of technical documents. Major projects are related to each student's field of interest. Topics of study include the theory and ethics of editing, content editing, copy editing, developmental editing, production editing, and online editing. PREREQ: ADM/PROG or PERM/INST.

ENGL 515 VISUAL RHETORIC AND INFORMATION DESIGN (3-0-3) (S). A study and application of the rhetorical elements of design, including color, line, form, images, and type. Students will be introduced to desktop publishing, graphics, and Web-authoring software. Students will apply principles of visual rhetoric in creating print and online technical documents. PREREQ: ADM/PROG or PERM/INST.

ENGL 516 TOPICS IN PRINT DOCUMENT PRODUCTION (3-0-3)(F) (Even years). Study and application of the principles and techniques involved in taking print documents from conception to production. Topics will vary but can include desktop publishing, estimating time and cost, selecting paper and binding, working with pre-press and printing companies, and selecting appropriate distribution systems. The course assumes experience with personal computers and desktop publishing software. This course may be taken twice for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 518 WRITING SOFTWARE DOCUMENTATION (3-0-3)(Odd years). The study and application of principles for creating effective print and online documentation. Topics can include content design and organization, writing style, graphic design, hypertext, and usability testing. The course also addresses strategies for working successfully as a technical communicator. PREREQ: ADM/PROG or PERM/INST.

ENGL 519 TECHNICAL PUBLICATIONS MANAGEMENT (3-0-3)(S) (Odd years). Analysis and application of the principles of management and organizational behavior as they apply to the technical publications field. In a case-study environment focused on the publications process, students learn the techniques and practices of managing technical publications groups within organizational settings, while studying relevant principles of motivational theory and human behavior. PREREQ: ADM/PROG or PERM/INST.

ENGL 520 GENRE (3-0-3)(F/S). A study of a well defined literary genre, such as novel, short story, epic, or tragedy. Examination of representative texts in order to discover the evolution of a specific literary genre while at the same time establishing its typical features. Repeatable for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 521 TOPICS IN ON-SCREEN DOCUMENT PRODUCTION (3-0-3)(S) (Even years). Study and application of the principles involved in designing, creating, and managing information on the screen. Topics vary but can include advanced Web design, help systems, and multimedia applications. Students practice effective hypertext and screen-design techniques from the fields of cognitive science, software psychology, and human factors. This course may be taken twice for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 525 LITERARY TRANSLATION WORKSHOP (3-0-3)(F/S). Students read works of theory and practice in literary translation, translate short works of literature, submit their work for workshop critique, and contribute to the discussion of others' writing. Languages and genres translated vary with instructor. Repeatable for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 530 STUDIES IN A LITERARY PERIOD (3-0-3)(F/S). A study of a selected chronological period of American or British literature with focus on major authors, genres, or topics. Repeatable for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 535 USER EXPERIENCE (3-0-3)(F). User experience focuses on understanding—and designing experiences tailored to—human behavior. In this course learn to create successful visual and emotional user experiences while exploring links between usability and desirability, humanity and technology. PREREQ: ADM/PROG or PERM/INST.

ENGL 536 PROPOSAL DEVELOPMENT (3-0-3)(F) (Odd years). Study of principles of effective proposal development and grant writing for businesses and nonprofits. Topics include identifying funding sources, developing grant applications, creating proposals in response to requests/call for proposals, writing collaboratively within an organization, and giving convincing and audience-appropriate presentations. PREREQ: ADM/PROG or PERM/INST.

ENGL 537 WRITING FOR SOCIAL MEDIA AND ONLINE COMMUNITIES (3-0-3)(S) (Odd years). Apply interactive Internet-based technologies to easily collaborate, share, link and generate content. Analyzing user-created content and online communities, students will learn techniques and best practices for using the social web to enhance workplace communication using tools such as blogs, micro-blogs, wikis, social networking sites, tag clouds, and syndication. PREREQ: ADM/PROG or PERM/INST.

ENGL 538 (OPWL 517) WRITING IN PROFESSIONS (3-0-3)(F). Overview of communication practices and standards in workplace settings. Topics include editing and revision, research and citation practices, social and cultural aspects of technical communication, workplace-writing style, and common documents produced in business and industry, such as proposals, informal reports, formal reports, and prospectuses. Not for credit toward degrees from the English department. May be taken for ENGL or OPWL credit, but not both. PREREQ: PERM/INST.

ENGL 540 ISSUES IN WRITING, TEACHING, AND LEARNING (3-0-3) (F). Investigates the theories, practices, and conditions that influence the development of writing ability and other literacies. May focus on issues in learning theory, an examination of composing practices, or social contexts that influence student growth. Topics might include transfer and inquiry-based learning, practices revision or teaching with technology, or writing in social contexts like community-based organizations. Repeatable once for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 545 CONTEMPORARY ISSUES AND INSTITUTIONAL CONTEXTS IN RHETORIC AND COMPOSITION (3-0-3)(F/S). Theoretical exploration of current topics in rhetoric and composition as well as contexts for writing instruction and research. Introduces students to emerging issues in the discipline like multimodal composing, contemporary rhetorical theory, cultural studies, and new technologies. May also examine contemporary contexts for literacy instruction and practices as well as theories of composing in the workplace and community. Repeatable once for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 550 LITERATURE AND CULTURE (3-0-3)(F/S). The interaction between a body of literature and the social, economic, and political forces that characterize the culture in which it originates. The influence of culture on literary form and content. Repeatable for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 554 METHODS FOR RESEARCH IN WRITING AND RHETORIC (3-0-3)(F/S). An introduction to research methods appropriate for conducting research in various writing contexts. Explores a range of empirical and rhetorical strategies for research, including developing research questions, choosing appropriate research methods, and addressing ethical issues in conducting research with human subjects. PREREQ: ADM/PROG or PERM/INST.

ENGL 555 WRITING IN RHETORIC AND COMPOSITION STUDIES (3-0-3)(F). Provides an overview of writing expectations and publication opportunities in the field of rhetoric and composition as well as identifying opportunities for the study and practice of rhetoric and writing beyond the field (e.g., community organizations, political discourse, interdisciplinary conversations). Helps students consider options for the culminating activity of the program. PREREQ: Admitted to the MA in English, Rhetoric and Composition program or PERM/INST.

ENGL 561 COMPOSITION THEORY AND PRACTICE (3-0-3)(F) (Even years). A study of writing as both subject and activity. Examines theories and their application in multiple contexts with attention to the ethical dimensions of writing, including cultural awareness. PREREQ: ADM/PROG or PERM/INST.

ENGL 562 THEORIES OF RHETORIC (3-0-3)(F) (Odd years). Main currents in historical and contemporary rhetorical theory. Attention is given to the Western tradition as well global rhetorics. Themes may include the importance of rhetoric in the public forum, the role of rhetoric in education, and the ethical obligations of the rhetor. PREREQ: ADM/PROG or PERM/INST.
ENGL 567 GRAMMAR AND THE TEACHING OF WRITING: THEORY AND PRACTICE (3-0-3)(F/S). A study of the theory and practice of teaching grammar and usage from rhetoric and composition perspectives. The course examines a variety of approaches to instruction in grammar and conventions of discourse communities. Prepares students for teaching writing in secondary schools and two- and four-year colleges, and for further graduate study. PREREQ: ENGL 561, ENGL 598, or PERM/INST.

ENGL 570 LITERARY MOVEMENTS (3-0-3)(F/S). A focus on a significant literary movement, the works of its major and minor contributors, its theories and its practice, its relation to its time, its place in literary history, its influence on writers past and present. Repeatable for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 577 TEACHER RESEARCH IN LITERACY I (variable)(F/S/SU). Introduces K-13 teachers to techniques of classroom research such as ethnography, practitioner action research, reflective practice, and narrative inquiry. The first part of a two-semester course. PREREQ: ADM/PROG or PERM/INST.

ENGL 578 TEACHER RESEARCH IN LITERACY II (variable)(F/S/SU). K-13 teachers apply classroom research techniques learned in ENGL 577. Participants complete a teacher research project. The second part of a two-semester course. PREREQ: ENGL 577 or PERM/INST.

ENGL 579 BOISE STATE WRITING PROJECT INVITATIONAL INSTITUTE (6-0-6)(SU). An intensive seminar sponsored by the National Writing Project in which accomplished teachers work together to 1) study ways to improve student writing, 2) share successful teaching practices through teaching demonstrations, 3) work on their own composing in various genres, 4) reflect upon their composing processes as a means to improve their teaching, and 5) develop a research literature review and teaching plan for an area of literacy instruction. Also includes professional development instruction. PREREQ: Must apply and be invited to participate.


ENGL 581 LITERATURE FOR USE IN JUNIOR AND SENIOR HIGH SCHOOLS (3-0-3)(F/S). A literary content course for prospective teachers of secondary school English. Primary emphasis on critical reading of literature for adolescents in secondary school. Secondary emphasis on methods of analysis appropriate to students. All genres as well as classic and popular authors. PREREQ: Two literature courses or PERM/INST. COREQ: ENGL 501.

ENGL 582 SELECTED TOPICS IN TEACHING ENGLISH LANGUAGE ARTS (3-0-3)(F/S). Study of current theories and topics in teaching the English Language Arts in composition, language, or literary theory of special interest to the experienced teacher. A specific focus will be announced each time the course is offered. Although targeted primarily at classroom teachers, the course may be appropriate for others who offer instruction, including technical writing trainers and teachers of literacy in GED centers, workplace literacy projects, and community education projects. Alternate years. PREREQ: ENGL 301 or ENGL 381 or ENGL 481 or teaching experience or PERM/INST.

ENGL 585 SELECTED TOPICS IN LINGUISTICS (3-0-3)(F/S). An investigation of a particular topic in linguistics, drawn generally from psycholinguistics, sociolinguistics, semantics, pragmatics, discourse, syntax, or morphology. Course work will include lecture, discussion, and a paper or project, depending on the nature of the topic. Repeatable once for credit. PREREQ: LING 305 and admission to program, or PERM/INST.

ENGL 588 SURVEY OF CRITICAL THEORY (3-0-3)(F/S). A survey of major contemporary theories of literary criticism and their effects on literary studies. PREREQ: ADM/PROG or PERM/INST.

ENGL 598 SEMINAR (TEACHING ASSISTANTS)(3-0-3)(F). Focuses on writing theory and practice, the teaching community, and the department's English Composition courses for first semester Teaching Assistants. The seminar will provide information and support for the assistants while they learn to meet their obligations as classroom teachers. PREREQ: PERM/INST.
Department of Geosciences

College of Arts and Sciences

Chair: James McNamara
Environmental Research Building, Room 1160
(208) 426-2902 (phone)
https://earth.boisestate.edu (website)

Graduate Faculty: Bennett, Brand, Brandt, Flores, Glenn, Johnson, Kohn, Marshall, McNamara, Mikessell, Liberty, Northrup, Pierce, Schmitz, Viskupic, Wanless, Wilkins

Graduate Degrees Offered
- Doctor of Philosophy in Geophysics
- Doctor of Philosophy in Geosciences
- Master of Earth Science
- Master of Science in Geophysics
- Master of Science in Geoscience
- Graduate Certificate in Geographic Information Analysis

Interdisciplinary Participation
- Doctor of Philosophy in Computing
- Doctor of Philosophy in Ecology, Evolution, and Behavior
- Master of Science in Hydrologic Sciences

DOCTOR OF PHILOSOPHY IN GEOPHYSICS

Program Coordinator: Jeffrey B. Johnson
Environmental Research Building, Room 3163
(208) 426-2959 (phone)
jeffreybjohnson@boisestate.edu (email)

General Information
The Doctor of Philosophy in Geophysics degree requires completion of a prescribed course of study in geophysics and an area of emphasis outside of geophysics, satisfactory performance on a comprehensive examination, and independent completion of original research that results in a publicly defended dissertation that contributes significantly to geophysical knowledge.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree or master's degree in physical science, engineering, computer science or mathematics from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree or master's degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of intent outlining background, preparation, interests, career goals and plans, and 1-3 potential faculty members to study under.
3. A current résumé.
4. Official Graduate Record Examinations (GRE) General Test scores.
5. A writing sample (publication, technical document, scientific abstract, or from prior coursework).
6. A TOEFL score of 587 or higher for the written exam or 95 internet-based test (iBT) for students whose native language is not English.
7. Completion of a Department of Geosciences College Course Summary for Prospective Student form.
8. Three letters of recommendation from academic references.

Graduate Teaching and Research Fellowships
Graduate fellowships including tuition and fee waivers are funded from three sources: appropriated state funds, endowments, and research grants and contracts. Applicants to the PhD in Geophysics program who submit all documents required by the admission procedure by January 1 of any given year will be considered for a state appropriated or endowed graduate fellowship to start the following fall semester; notification of successful applicants will be during March and April. Information on graduate fellowships funded by research grants and contracts is available from the Coordinator of the geophysics doctoral program.

Degree Requirements

Doctor of Philosophy in Geophysics

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOPH 501 Properties and Processes in Geophysics I</td>
<td>4</td>
</tr>
<tr>
<td>GEOPH 502 Properties and Processes in Geophysics II</td>
<td>4</td>
</tr>
<tr>
<td>Geophysics courses approved by the supervisory committee and by the graduate programs committee.</td>
<td>12</td>
</tr>
<tr>
<td>Additional elective courses in related fields as approved by the supervisory committee and by the graduate programs committee.</td>
<td>12</td>
</tr>
<tr>
<td>GEOPH 601 Introduction to Research Program Development</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 598 Graduate Seminar Enrollment in Graduate Seminar is required each semester of all graduate students in residence; one credit may be applied towards graduation.</td>
<td>1</td>
</tr>
<tr>
<td>GEOPH 687 Doctoral Preliminary Examination</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 691 Doctoral Comprehensive Examination</td>
<td>1</td>
</tr>
<tr>
<td>GEOPH 693 Dissertation</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>66</td>
</tr>
</tbody>
</table>

Graduate Seminar

On-campus graduate students are required to enroll for GEOPH 598 Graduate Seminar each and every time it is offered but GEOPH 598 may not be applied to meet the geophysics elective requirement.
DOCTOR OF PHILOSOPHY IN GEOSCIENCES

Doctoral Program Coordinator: Alejandro Flores
Environmental Research Building room 4151
(208) 426-5907 (phone)
(208) 426-4061 (fax)
lejoflores@boisestate.edu (email)

General Information
Boise State University offers a Doctor of Philosophy in Geosciences through the Department of Geosciences. The degree requires completion of a prescribed course of study in geosciences, satisfactory performance on a comprehensive examination, and independent completion of original research that results in a publicly defended dissertation that contributes significantly to geoscientific knowledge.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree or master’s degree in a geosciences or related discipline from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree or master’s degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of intent outlining background, preparation, interests, career goals and plans, and 1-3 potential faculty members to study under.
3. A current résumé.
4. Official Graduate Record Examinations (GRE) General Test scores
5. A TOEFL score of 587 or higher for the written exam or 95 internet-based test (iBT) for students whose native language is not English.
6. A writing sample (publication, technical document, scientific abstract, or prior coursework).
7. Completion of a Department of Geosciences College Course Summary for Prospective Student form.
8. Three letters of recommendation from academic references.

Graduate Teaching and Research Fellowships
Graduate fellowships including tuition and fee waivers are funded from three sources: appropriated state funds, endowments, and research grants and contracts. Applicants to the PhD in Geosciences program who submit all documents required by the admission procedure by February 1 of any given year will be considered for a state appropriated or endowed graduate fellowship to start the following fall semester; notification of successful applicants will be during March and April. Information on graduate fellowships funded by research grants and contracts is available from the coordinator of the doctoral program in geosciences.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geosciences courses (GEOG, GEOPH, or GEOS) approved by the supervisory committee and by the graduate programs committee</td>
<td>16</td>
</tr>
<tr>
<td>Additional elective courses in related fields as approved by the supervisory committee and by the graduate programs committee</td>
<td>16</td>
</tr>
<tr>
<td>GEOS 601 Introduction to Research Program Development</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 598 Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 598 Graduate Seminar Enrollment in Graduate Seminar is required each semester of all graduate students in residence; one credit may be applied towards graduation.</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 687 Doctoral Preliminary Examination</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 691 Doctoral Comprehensive Examination</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 693 Dissertation</td>
<td>30</td>
</tr>
<tr>
<td>Total</td>
<td>66</td>
</tr>
</tbody>
</table>

Graduate Seminar
On-campus graduate students are required to enroll for GEOS 598 graduate seminar each and every semester it is offered but GEOS 598 may not be applied to meet the Geosciences elective requirement.
MASTER OF EARTH SCIENCE
Graduate Program Coordinator: James McNamara
Environmental Research Building, Room 4165
(208) 426-1354 (phone)
jmcnamar@boisestate.edu (email)

General Information
The Master of Earth Science (MESci) is a professional science degree program without a thesis requirement designed for students who are in the workforce or considering a career path where a thesis would not be a requirement. The curriculum in the MESci is built around proven course strengths in our MS Geosciences, Geophysics, and Hydrologic Sciences programs. The MESci requires the student to select from one of three emphasis areas, with core content in each paralleling those other programs. This provides the MESci student with similar core skills, knowledge base, and focus as in the thesis-based programs, skills which have proved vital to a broad range of fields, including policy, regulation, or management, in the areas of environment, natural resources, and urban planning. A student would fill the remaining program requirements with coursework agreed to by their committee and the department’s Graduate Programs Committee (GPC). Without the thesis requirement, students may be able to complete the degree and enter or advance within the workforce more rapidly. The Master of Earth Science is a graduate degree platform that will provide its graduates with a rigorous degree that will enhance their competitive edge in the job marketplace.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree in earth science education, geology, or related discipline from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree. Applicants may have earned a minimum GPA of 3.00 during the last two years of academic work.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

- Official transcripts from all colleges attended.
- A letter of intent outlining background, preparation, interests, career goals and plans, and 1-3 potential faculty members to study under.
- A current résumé.
- A writing sample (publication, technical document, scientific abstract, or prior coursework).
- Completion of a Department of Geosciences College Course Summary for Prospective Student form.
- Three letters of recommendation from academic references.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following core clusters:</td>
<td></td>
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<tr>
<td>Geology Core (4 of the following 6 courses)</td>
<td>11-12</td>
</tr>
<tr>
<td>GEOS 525 Advanced Geomorphology</td>
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</tr>
<tr>
<td>GEOS 526 Whole Earth Geochemistry</td>
<td></td>
</tr>
<tr>
<td>GEOS 541 Plate Tectonics</td>
<td></td>
</tr>
<tr>
<td>GEOS 560 Volcanology</td>
<td></td>
</tr>
<tr>
<td>GEOS 607 Paleoclimatology and Paleoceanography</td>
<td></td>
</tr>
<tr>
<td>GEOS 611 Basin Analysis Hydrologic Science Core</td>
<td></td>
</tr>
<tr>
<td>GEOS 512/CE 512 Hydrogeology</td>
<td></td>
</tr>
<tr>
<td>GEOS 516 Hydrology</td>
<td></td>
</tr>
<tr>
<td>GEOS 518 Applied Hydrologic Modeling</td>
<td></td>
</tr>
<tr>
<td>GEOS 526/CE 526 Aqueous Geochemistry</td>
<td></td>
</tr>
<tr>
<td>Geophysics Core</td>
<td></td>
</tr>
<tr>
<td>GEOPH 501 Properties and Processes in Geophysics I</td>
<td></td>
</tr>
<tr>
<td>GEOPH 502 Properties and Processes in Geophysics II</td>
<td></td>
</tr>
<tr>
<td>GEOPH 605 Inversion Theory and Geophysical Applications</td>
<td></td>
</tr>
<tr>
<td>Elective coursework in geosciences and related fields. Elective coursework must be approved by the student’s supervisory committee and the department’s graduate programs committee.</td>
<td>23-24</td>
</tr>
<tr>
<td>GEOS 598 Graduate Seminar</td>
<td>1</td>
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<tr>
<td>GEOS 690 Master’s Comprehensive Examination</td>
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</tr>
<tr>
<td>Total</td>
<td>37-38</td>
</tr>
</tbody>
</table>

MASTER OF SCIENCE IN GEOSCIENCE
Graduate Program Coordinator: Brittany Brand
Environmental Research Building, Room 5163
(208) 426-5907 (phone)
brittanybrand@boisestate.edu (email)

General Information
The program leading to the degree of Master of Science (MS) in geosciences is designed to prepare students for professional careers or further graduate studies in earth, environmental, or hydrological sciences. Completion of the program requires completion of an individually tailored curriculum approved by the graduate program committee, and original research that culminates in a publicly defended thesis. Opportunities for research span a wide range of fundamental and applied science topics in earth, environmental and hydrological sciences. Students are encouraged to contact individual faculty members for further information.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree in geology or related discipline from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree. Applicants may have earned a minimum GPA of 3.00 during the last two years of academic work.
A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of intent outlining background, preparation, interests, career goals and plans, and 1-3 potential faculty members to study under.
3. A current résumé.
4. Official Graduate Record Examinations (GRE) General Test scores.
5. A writing sample (publication, technical document, scientific abstract, or prior coursework).
6. Completion of a Department of Geosciences College Course Summary for Prospective Student form.
7. Three letters of recommendation from academic references.

### Degree Requirements

**Master of Science in Geoscience**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>The student must complete a minimum of 30 credits, of which 20 or more are required to be at the 500-level.</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>12 credits of GEOG, GEOPH, or GEOS courses approved by student’s supervisory committee</td>
<td></td>
</tr>
<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>Geology Core (4 of the following courses)</td>
<td></td>
</tr>
<tr>
<td>- GEOS 523 Advanced Geomorphology</td>
<td></td>
</tr>
<tr>
<td>- GEOS 525 Whole Earth Geochemistry</td>
<td></td>
</tr>
<tr>
<td>- GEOS 541 Plate Tectonics</td>
<td></td>
</tr>
<tr>
<td>- GEOS 560 Volcanology</td>
<td></td>
</tr>
<tr>
<td>- GEOS 607 Paleoclimatology and Paleoceanography</td>
<td>12</td>
</tr>
<tr>
<td>GEOS 601 Introduction To Research Program Development</td>
<td>1</td>
</tr>
<tr>
<td>Mandatory for the first year on campus for all students</td>
<td></td>
</tr>
<tr>
<td>GEOS 598 Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>Enrollment in Graduate Seminar is required each semester of all graduate students in residence; one credit may be applied towards graduation.</td>
<td></td>
</tr>
<tr>
<td>GEOS 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Additional elective courses as approved by the supervisory committee and by the coordinator of the MS Geoscience program.</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

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### MASTER OF SCIENCE IN GEOPHYSICS

**Graduate Program Coordinator:** Jeffrey B. Johnson  
Environmental Research Building, Room 3163  
(208) 426-2959 (phone)  
jeffreybjohnson@boisestate.edu (email)

#### General Information

The Master of Science in Geophysics degree requires 30 total credits distributed as follows: 12 graduate geophysics course credits, 12 credits in approved science or engineering courses, and at least 6 thesis research credits leading to an approved thesis. The overall goal of the graduate geophysics program is to provide a balanced education in the following areas:

- geophysical theory and methods including the quantification of error and resolution;
- problem definition, characteristics of an acceptable Scientific solution, and an understanding of the effort required to reach an acceptable solution;
- the interrelationship of geophysics with other Scientific and engineering disciplines;
- oral and written technical communication;
- project management and teamwork;
- an introduction to the geoscience profession beyond the classroom including the establishment of professional contacts.

Achievement of these educational objectives requires that a graduate student be exposed to classroom and laboratory instruction, thesis research, seminars, field trips, preparation of proposals and papers, presentations at professional meetings, short-term work assignments on sponsored projects, and interaction with a wide variety of faculty, research staff, students, and off-campus scientists and engineers. Current research emphases at Boise State include the following:

- applications of surface and borehole geophysical methods to hydrogeological, environmental, and engineering problems;
- geophysical measurement of the engineering properties of earth materials;
- determination of the relationship between geophysical and hydrological parameters;
- use of marine sedimentology and borehole geophysics to study the interaction between the oceans and continental climate;
- investigation of physical process dynamics during cold season flooding.

The geophysics program is well equipped with modern digital field instrumentation and computational facilities.

The Boise State University Master of Science program in geophysics interacts cooperatively with Idaho State University (ISU) in that up to 12 credits earned in approved courses at ISU can be applied to a Master of Science in Geophysics at BSU or ISU. In addition, faculty at BSU and ISU may form joint supervisory committees when expertise from outside of the student’s resident institution is judged to be beneficial. These cooperative efforts by BSU and ISU add flexibility and geographic accessibility to graduate education in geophysics within Idaho.
Graduate Assistantships, Teaching and Research Fellowships

Graduate assistantships and fellowships including tuition and fee waivers are funded from three sources: appropriated state funds, endowments, and research grants and contracts. Applicants to the MS Geophysics program who submit all documents required by the admission procedure by February 1 of any given year will be considered for a state appropriated or endowed graduate assistantships and fellowships to start the following fall semester; notification of successful applicants will be during February and March. Information on graduate fellowships funded by research grants and contracts is available from the Coordinator of the geophysics graduate program.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree in geophysics, geosciences, hydrology, physics, chemistry, mathematics or engineering from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of intent outlining background, preparation, interests, career goals and plans, and 1-3 potential faculty members to study under.
3. A current résumé.
4. Official Graduate Record Examinations (GRE) General Test scores.
5. A TOEFL score of 587 or higher for the written exam or 95 internet-based test (iBT) for students whose native language is not English.
6. A writing sample (publication, technical document, scientific abstract, or prior coursework).
7. Completion of a Department of Geosciences College Course Summary for Prospective Student form.
8. A copy of a report resulting from a previous university course, professional position, or research experience as evidence of applicant's ability to complete a significant project and write an acceptable scientific report.
9. Three letters of recommendation from academic references.

Degree Requirements

<table>
<thead>
<tr>
<th>Master of Science in Geophysics</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Credit Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>The Boise State University Master of Science in Geophysics requires 30 semester credits distributed as follows:</td>
<td></td>
</tr>
<tr>
<td>GEOPH 501 Properties and Processes in Geophysics I</td>
<td>4</td>
</tr>
<tr>
<td>GEOPH 502 Properties and Processes in Geophysics II</td>
<td>4</td>
</tr>
<tr>
<td>GEOPH 601 Introduction to Research Program Development Mandatory for the first year on campus for all students</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 598 Graduate Seminar Enrollment in Graduate Seminar is required each semester of all graduate students on campus; one credit may be applied towards graduation.</td>
<td>1</td>
</tr>
<tr>
<td>Elective courses approved by the supervisory committee and by the Coordinator of the geophysics graduate program. (At least 6 credits must be at the GEOPH 500-level or GEOPH 600-level.)</td>
<td>14</td>
</tr>
<tr>
<td>GEOPH 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

GRADUATE CERTIFICATE IN GEOGRAPHIC INFORMATION ANALYSIS

Graduate Program Coordinator: Edwin DeYoung
Environmental Research Building, Room 4165
(208) 426-1354 (phone)
edwindeyoung@boisestate.edu (email)

General Information

This certificate program is interdisciplinary in its application of geospatial technologies towards solving problems with spatial elements, and is open to graduate students of any major where geospatial information technologies and analysis may be applied. The prescribed and elective coursework is designed to meet the demands in industry and research where demonstrable literacy is required in these technologies. Applicants must be seeking a graduate degree for admission to this program.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree in geology or related discipline from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree. Applicants may have earned a minimum GPA of 3.00 during the last two years of academic work. Applicants must be seeking a graduate degree for admission to this program.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of intent outlining background, preparation, interests, career goals and plans, and 1-3 potential faculty members to study under.
3. A current résumé.
4. Official Graduate Record Examinations (GRE) General Test scores.
5. A writing sample (publication, technical document, scientific abstract, or prior coursework).
6. Completion of a Department of Geosciences College Course Summary for Prospective Student form.
7. Three letters of recommendation from academic references.

Certificate Requirements

<table>
<thead>
<tr>
<th>Graduate Certificate in Geographic Information Analysis</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
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</tr>
<tr>
<td><strong>Core Courses</strong></td>
<td></td>
</tr>
<tr>
<td>Select two from the following:</td>
<td></td>
</tr>
<tr>
<td>GEOG 560 Introduction to Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GEOG 561 Remote Sensing and Image Processing</td>
<td></td>
</tr>
<tr>
<td>GEOG 562 Geographic Information Analysis</td>
<td></td>
</tr>
<tr>
<td>GEOS 661 Advanced Image Processing</td>
<td>6</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Nine credits in courses that represent a disciplinary or interdisciplinary focus area. Courses must be approved by the graduate program coordinator and cannot include more than 3 undergraduate credits. Examples of focus areas include Landscape Ecology, Watershed Processes, Geologic Hazards, Resource Management and Land Use, Environmental Quality, Crime, and Urban and Regional Planning.</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
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</tbody>
</table>
Course Offerings

GENSCI—General Science

GENSCI 501 HISTORY OF SCIENCE (3-0-3)(F/S). This is a survey of humanity’s efforts to understand the natural world. “Ancient Science” is presented as an introduction to the evolution of science since the 10th century. “Modern Science” is presented with emphasis on the development of modern scientific thought. Historical illustrations of the nature of scientific research in the evolution of science are presented.

GEOG—Geography

GEOG 560 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (2-2-3)(F/S). Theory, concepts, principles, and practice of spatial data capture, storage, analysis, and display within a geographic information systems environment.

GEOG 561 REMOTE SENSING AND IMAGE PROCESSING (3-0-3)(F/S). Fundamentals and applications of single frequency (including lidar), multispectral, and hyperspectral remote sensing for physical, natural, engineering, and social sciences. Emphasis on acquiring, processing, integrating, and interpretation of imagery. Completion of one year of college physics strongly recommended. PREREQ: GEOG 560 or PERM/INST.

GEOG 562 GEOGRAPHIC INFORMATION ANALYSIS (2-2-3)(F/S). For graduate students with previous GIS experience or course work. Covers the operations and spatial analysis capabilities of a GIS, including spatial data models and data structure, spatial data management, and the spatial statistical analyses used to solve various problems. Lab fee. PREREQ: GEOG 561 or PERM/INST.

GEOG 570 (GEOS 570) EARTH SYSTEM SCIENCE AND GLOBAL WARMING (3-0-3)(F/S). Survey of interactions among physical biogeochemical processes involved in climate and climate feedback. Explore in detail scenarios of global warming for the next century and their reliability. May be taken for GEOG or GEOS credit but not both. PREREQ: PERM/INST.

GEOPH—Geophysics

GEOPH 501 PROPERTIES AND PROCESSES IN GEOPHYSICS I (3-2-4) (F). Study of the physical processes that operate within the solid Earth and the subsurface properties that govern those processes. Emphasis on mechanical deformation and seismic and electromagnetic wave propagation. Required core class for all geophysics graduate students. PREREQ: PERM/INST.

GEOPH 502 PROPERTIES AND PROCESSES IN GEOPHYSICS II (3-2-4)(S). Study of the physical processes that operate within the solid Earth and the subsurface properties that govern those processes. Emphasis on thermal processes and the dynamics of fluids. Required core class for all geophysics graduate students. PREREQ: GEOPH 501 and GEOS 412, or PERM/INST.

GEOPH 510 BOREHOLE GEOPHYSICS (2-3-3)(Offered as justified). Principles of geophysical, geological, and hydrological measurements in boreholes with emphasis on applications to hydrogeology and petroleum geology. Geophysical interpretation and formation evaluation of conventional Petroleum industry well logs. Integration of borehole geophysics, seismic reflection data, and geology for water resource studies and petroleum exploration. PREREQ: PERM/INST.

GEOPH 511 INTEGRATED RESERVOIR ANALYSIS (3-1-3)(S). Integration of fundamentals and applications from geology, geophysics, and reservoir engineering to characterize petroleum and geothermal reservoirs. Students will work with real data and computer software to develop a reservoir. PREREQ: MATH 170, GEOS 220 or GEOS 315, or PERM/INST.

GEOPH 513 HYDROGEOPHYSICS (2-2-3)(odd years). Application of geophysical methods to problems in groundwater hydrology including in situ estimation of aquifer parameters, evaluation of groundwater resources, delineation of thermal and chemical pollution of groundwater, and mapping of saltwater intrusion. PREREQ: GEOS 343, GEOS 512, or PERM/INST.

GEOPH 515 STRATIGRAPHIC INTERPRETATION OF SEISMIC DATA (3-0-3)(S). Seismic sequence and seismic facies analysis, isochronous reflections, seismic stratigraphy of depositional systems, sea level cycles, seismic modeling, hydrocarbon indicators, lithology from velocity and seismic amplitude variation with offset, use of shear waves and vertical seismic profiling. Interpretation project involving seismic modeling. PREREQ: GEOS 465 or GEOPH 565.


GEOPH 522 DATA ANALYSIS AND GEOSTATISTICS (3-0-3)(F). Review of basic statistics to cover traditional and recent data analysis techniques, with focus on spatial datasets. Parametric and non-parametric probability density functions, monte-carlo and bootstrap resampling, and principal component analysis. GIS software with focus on using quantitative geostatistical techniques for spatial interpolation and analysis, such as variogram modeling, kriging, and co-kriging. Some experience with programming recommended. PREREQ: PERM/INST.

GEOPH 555 GRAVIMETRIC AND MAGNETIC METHODS (2-2-3)(F/S). Comprehensive discussion of modern gravimetric and magnetic methods of subsurface investigation. Applications to exploration geology (mining and petroleum), engineering geology, hydrogeology, and crustal geology. PREREQ: GEOPH 303, GEOS 101 or PERM/INST.

GEOPH 560 ELECTRICAL AND ELECTROMAGNETIC METHODS (2-2-3)(F/S). Comprehensive discussion of modern electrical and electromagnetic methods of subsurface investigation, including ground penetrating radar. Applications to exploration geology (mining and petroleum), engineering geology, hydrogeology, and crustal geology. PREREQ: GEOPH 303, GEOS 101 or PERM/INST.

GEOPH 565 SEISMIC METHODS (2-2-3)(F/S). Comprehensive discussion of modern seismic methods of subsurface investigation. Applications to exploration geology (mining and petroleum), engineering geology, hydrogeology, and crustal geology. PREREQ: GEOPH 303, GEOS 101 or PERM/INST.

GEOPH 566 SNOW AND ICE PHYSICS (3-0-3)(Even years). Physics of water in its solid form at a wide range of spatial and temporal scales. Micro-scale processes including formation of solid precipitation, deposition, metamorphism, sublimation, melt, transition to firm, and ice deformation. Medium-scale processes including snow redistribution, energy balance, stratigraphy, slope stability, and avalanche dynamics. Large-scale processes including snowmelt, regional avalanche forecasting, glacier/ice sheet hydrology, ice cores, permafrost and sea ice. PREREQ: MATH 175.

GEOPH 567 SNOW SCIENCE FIELD METHODS (0-3-2)(S). Introduction to traditional and cutting-edge methods for measuring snow properties for snow hydrology and avalanche applications. Weekly hands-on measurements in nearby Dry Creek and Reynolds Creek Experimental Watersheds to monitor snow conditions during the winter and spring. PREREQ: PERM/INST.

GEOPH 575 GEOPHYSICAL APPLICATIONS OF DIGITAL SIGNAL PROCESSING (2-2-3)(F/S). Review of digital linear system theory. Digital representation of geophysical data. Geophysical applications of convolution, fast-Fourier transform (FFT), correlations, least squares filters, deconvolution, multi-channel and two-dimensional operations. Emphasis is on processing of seismic reflection data, potential field maps, and earthquake seismograms. Computer laboratory exercises. PREREQ: GEOPH 301 or GEOS 343, or PERM/INST.

GEOPH 601 (GEOS 601) INTRODUCTION TO RESEARCH PROGRAM DEVELOPMENT (1-0-1)(F). Overview of requirements for research and development of technical writing skills through the preparation of
abstracts, proposals for research funding, and thesis proposals. May be taken for GEOPH or GEOS credit, but not both. PREREQ: PERM/INST.

**GEOPH 605 INVERSION THEORY AND GEOPHYSICAL APPLICATIONS (3-0-3)(F).** Application of the concepts of inverse theory to problems in geophysics and geophysical imaging. Continuous (integral) and discrete methods, with emphasis on inverse problems. Review of linear algebra, eigenvalue decomposition, basis functions, basis vectors, metrics, objective functions, transformation and representation, error analysis, linear and nonlinear inverse methods, gradient descent methods, grid searches, simulated annealing.

Computer laboratory exercises. PREREQ: MATH 301.

**GEOPH 610 GEOPHYSICAL METHODS IN GEOTECHNICAL ENGINEERING (3-0-3)(F)(Odd years).** Application of geophysical methods to earthquake engineering, soil dynamics, and vibrations due to construction. Study of geophysical assessment of soil profiles with emphasis on the amplification and propagation of stress waves. Response of soils, foundations, and structures built on or out of soils to waves and vibrations created by earthquakes or heavy construction and pile driving. Estimation of seismic hazards, characterization of strong ground motion, wave propagation, local site effects, and different representations of soil dynamics.

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

**GEOPH 624 (CE 624)(GEOS 624) APPLIED HYDROGEOLOGY (3-0-3)(S).** Quantitative determination of hydrologic parameter values and groundwater flow conditions. Conceptual models and geologic context, boundary condition, analytical and numerical solution techniques, measurement methods, applications to engineering and environmental problems. May be taken for CE, GEOPH, or GEOS credit, but not for more than one department. PREREQ: CE 623 or GEOPH 623 or GEOS 623 or PERM/INST.

**GEOPH 630 ESTIMATION OF EARTHQUAKE GROUND MOTION (2-2-3)(F/S).** Procedures for estimation of earthquake ground motion for applications such as the siting and design of critical facilities. Earthquakes, volcanic tectonic events, regional seismic attenuation. Ground motion parameters, response spectra, local amplification, and estimation of uncertainty. Students interested in earthquake ground motion are also encouraged to consider GEOPH 610 as a related course. Scheduled offering based on student interest. PREREQ: GEOPH 677; GEOS 314, or PERM/INST.


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

**GEOPH 653 DESIGN OF GEOPHYSICAL MONITORING SYSTEMS FOR SURFACE OR SUBSURFACE PROCESSES (2-2-3)(F/S).** Application of design principles to in situ geophysical monitoring systems for time-dependent surface or subsurface processes such as slope instabilities and migration of contaminants in groundwater. Scheduled offering based on student interest. PREREQ: GEOS 343, GEOPH 502, GEOPH 605; or PERM/INST.

**GEOPH 660 VOLCANO GEOPHYSICS (1-6 credits)(Offered as justified).** Focus on multi-parametric observations and interpretation of geophysical data collected at active volcanoes. Studies grounded in broadband seismology. Acquisition, signal processing, interpretation, and presentation of volcano data in written and oral format. Preparation should include advanced math and computer skills. PREREQ: PERM/INST.

**GEOPH 667 SOIL AND ROCK PHYSICS (3-1-3)(offered as justified).** Fundamentals of rock and soil mechanics, from elastic rock deformation to rock failure. Rock physics concepts integrated into geophysical applications for the understanding of rock types, pore fluids, and pressures acting on the rocks. Lab experiments and/or modeling. PREREQ: PERM/INST.

**GEOPH 677 EARTHQUAKE SEISMOLOGY (3-0-3)(F)(Even years).** Physics of the earthquake source, with special emphasis on earthquakes at volcanoes, tectonic earthquakes, volcano-tectonic earthquakes, long-period earthquakes, volcanic tremor, seismometry, earthquake location, fault-plane solutions, earthquake source mechanism, interpretation of seismograms, earthquake magnitude, surface waves, waveform modeling, Earth structure, mainshock-aftershock sequences, earthquake swarms, and b-values. PREREQ: MATH 333 or PERM/INST.

**GEOS—Geoscience**

**GEOS 505 INTRODUCTION TO NUMERICAL METHODS FOR THE GEOSCIENCES (1-2-3)(S).** Programming and numerical methods using MATLAB. Stands and practices of programming within MATLAB. Survey of numerical methods critical to geoscientists, including root finding, interpolation and extrapolation, linear algebra, numerical integration, solving differential equations, and simulation and random numbers. PREREQ: MATH 175 or equivalent.

**GEOS 511 HYDROLOGY: LAND-ATMOSPHERE INTERACTION (3-0-3)(F).** Introduction to the hydrologic cycle and connections between the land surface and atmosphere. Atmospheric circulation, global hydrologic budget, atmospheric radiation, meteorology and climatology of rainfall, snow processes, surface energy and moisture balance, turbulent fluxes, and modeling and remote sensing. PREREQ: MATH 175.

**GEOS 512 (CE 512) HYDROGEOLOGY (3-0-3)(S).** Introduction to the hydrologic cycle focusing on subsurface water and its relationship to surface water. Physics of flow through porous media, physical properties of aquifer systems, methods to determine aquifer characteristics, groundwater modeling and relationships between groundwater and streamflow. May be taken for CE or GEOS credit, but not both. PREREQ: CE 330 or ME 330 or MATH 175.

**GEOS 516 HYDROLOGY (3-0-3)(F).** Interdisciplinary earth science concerned with movement and occurrence of water. Watershed-based hydrologic phenomena including hydrologic cycle water-cycle analysis, precipitation, evapotranspiration, snow-snowmelt, streamflow, floods, routing and surface runoff events. Application of analytical techniques to solve water resource problems. PREREQ: MATH 175 or PERM/INST.

**GEOS 518 APPLIED HYDROLOGIC MODELING (2-2-3)(S).** Review, critical analysis, and application of surface hydrology modeling techniques used in hydrology and engineering practice. Covers empirical, statistical, and physics-based approaches. Application of commonly used modeling software to practical problems. PREREQ: GEOS 516 or PERM/INST.

**GEOS 523 ADVANCED GEOMORPHOLOGY (V-V-3)(F/S).** Study of Quaternary dating methods, applications of geomorphology to environmental problems, mapping and landscape analysis using GIS, soils, geomorphic response to Quaternary climate change, and climatic, tectonic and autocyclic controls on geomorphic processes. Field trips and a field-based research project required. PREREQ: PERM/INST.

**GEOS 525 WHOLE EARTH GEOCHEMISTRY (3-0-3)(F/S).** Basic tools and topics of modern geochemistry with an emphasis on solid-earth applications. Essentials of thermodynamics, kinetics, radiogenic and stable isotopes, and trace element chemistry necessary to study Earth processes in the crust, mantle, hydrosphere and atmosphere. PREREQ: PERM/INST.

**GEOS 526 (CE 526) AQUEOUS GEOCHEMISTRY (3-0-3)(F/S).** Basic tools and topics of aqueous geochemistry with an emphasis on low temperature processes in natural waters. Essentials of thermodynamics, kinetics, aqueous
speculation, mineral-water interaction, and elemental cycling in the context of surficial earth processes and environmental challenges. May be taken for CE or GEOS credit, but not both. PREREQ: PERM/INST.

GEOS 529 FIELD HYDROGEOLOGIC METHODS (1-4-3)(Offered as justified). Field observations and data collection at active drilling projects. Survey course covering water well design and construction, geologic data collection from well cuttings, geophysical methods, and other technical, legal and environmental aspects of water well drilling and operation. Requires weekly 4-hour field trips to local drill sites. PREREQ: GEOS 512 and PERM/INST.

GEOS 531 GEOLOGY AND TECTONICS OF WESTERN NORTH AMERICA (3-0-3)(F/S). Class traces the timeline of processes and events that shaped the continental architecture of Western North America by integrating all relevant aspects of geology and geophysics. A research paper is required. PREREQ: Graduate standing or PERM/INST.

GEOS 535 INTRODUCTION TO GEOINFORMATICS (3-0-3)(F/S). Explores theory and practice of digital information systems applied to the geosciences. Databases, GIS, schemas, standards and protocols, and examples. PREREQ: PERM/INST.

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

GEOS 541 PLATE TECTONICS (3-0-3)(F/S)(On demand). Reviews and clarifies geologic and geophysical foundations of plate tectonic theory. Characteristics of modern tectonic environments and their use in interpreting the Earth's geologic history. PREREQ: PERM/INST.

GEOS 551 PRINCIPLES OF SOIL SCIENCE (3-0-3)(F/S)(Offered as justified). Physical, chemical, and biological characteristics of soils, the factors that govern soil formation, soils as a tool for interpreting landscape evolution and climatic change, and the feedbacks among geologic, hydrologic, and ecologic systems that influence pedogenesis. Demonstration laboratory exercises and field trips will be required. Background in geology and chemistry encouraged. PREREQ: PERM/INST.

GEOS 560 VOLCANOLOGY (3-0-3)(F)(Alternate years). Study of volcanic processes and deposits, with focus on advances in volcanology since 1980 eruption of Mt. St. Helens. Course content aimed at students desiring to improve skills in working with volcanic rocks in the context of the geologic record, as well as students interested in volcanic hazards assessment. Field trip required. PREREQ: Graduate standing in geosciences or PERM/INST.

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

GEOS 562 ADVANCED FIELD METHODS IN VOLCANOLOGY (2-0-3)(F). Students increase their aptitude for observing and interpreting volcanic deposits in the field through field discussion and field reports that 1) clearly distinguish observation from interpretation, and 2) support interpretations with field observations and reference to the published literature. Class time is used to discuss volcanic processes and field observations. Field trips required. PREREQ: GEOS 460 or GEOS 560 or PERM/INST.

GEOS 570 (GEOG 570) EARTH SYSTEM SCIENCE AND GLOBAL WARMING (3-0-3)(F/S). Survey of interactions among physical biogeochemical processes involved in climate and climate feed back. Explore in detail scenarios of global warming for the next century and their reliability. May be taken for GEOG or GEOS credit, but not both. PREREQ: PERM/INST.

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

GEOS 583 SELECTED TOPICS IN GEOMORPHOLOGY (1-3 credits)(F/S). Selected topics in geomorphology such as environmental geomorphology, soils and geomorphology, and post-fire erosion. May be repeated for credit. PREREQ: PERM/INST.

GEOS 584 SELECTED TOPICS IN TECTONICS (1-3 credits)(S)(Odd years). Exploration of individual topic chosen from within the discipline of tectonics. Subject of study in a given semester may be based on geography (e.g., evolution of the Cordilleran Orogen) or tectonic process (e.g., continental rifting and extension). May be repeated for credit. PREREQ: PERM/INST.

GEOS 585 SELECTED TOPICS IN ISOTOPE GEOSCIENCE (1-3 credits)(F/S)(Offered as justified). Investigation of selected isotope geoscience methods and applications. Topics vary and may include aspects of stable, cosmetric, rare gas, and radiogenic isotope geochemistry. May be repeated for credit. PREREQ: PERM/INST.

GEOS 586 SELECTED TOPICS IN VOLCANOLOGY (1-3 credits)(F/S). Explores research questions, methods and recent advancements in volcanology through discussions on a series of volcanology research papers. Repeatable for credit. PREREQ: PERM/INST.

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

GEOS 601 (GEOPH 601) INTRODUCTION TO RESEARCH PROGRAM DEVELOPMENT (1-0-1)(F). Overview of requirements for research and development of technical writing skills through the preparation of abstracts, proposals for research funding, and thesis proposals. May be taken for GEOPH or GEOS credit, but not both. PREREQ: PERM/INST.

GEOS 605 TOPICS IN GEOMORPHOLOGY (3-0-3)(F/S). Topical investigation of geomorphic processes, including the influences of geology, hydrology, biology, climate, tectonics, and time on landscape evolution and ecosystems development. Includes field investigations. May be repeated for credit. PREREQ: PERM/INST.

GEOS 607 PALEOClimatology and Paleoceanography (3-0-3)(F). Will survey the driving forces of atmospheric and oceanic circulation, and how this information can be retrieved from the geological record from physical, biotic, trace element, and isotopic proxies. PREREQ: PERM/INST.

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

GEOS 615 TIME-SERIES ANALYSIS OF THE GEOLoGIC RECORD (3-0-3)(F/S). Analysis of modern methods for the quantification of time in the geologic record, including bio-, chemo-, magneto- and physical stratigraphy, high precision geochronology, and orbital tuning. Application to elucidating the records of tectonic reconstruction, paleobiological evolution, and paleoclimate change. PREREQ: PERM/INST.

GEOS 616 WATERSHED PROCESSES (3-0-3)(F). Hydrologic processes operating in watersheds, and relationships among hydrologic, biogeochemical, and geomorphologic processes. PREREQ: PERM/INST.

GEOS 620 COUPLED LAND-ATMOSPHERE MODELING (2-2-3)(F)(Offered even years). Overview of hydrometeorological theory underlying contemporary hydrometeorologic modeling. Application to the use of state-of-the-art research coupled land-atmosphere models, particularly the Weather Research and Forecasting (WRF) model. PREREQ: GEOS 505 or PERM/INST.
GEOS 621 GLOBAL HYDROLOGIC CHANGE (3-0-3)(F)(Offered odd years). In-depth study of projected changes to the global hydrologic cycle associated with climate change. Review of theory and recent literature on global hydrologic change and process-oriented, quantitative analysis of outputs of the Fifth Coupled Model Intercomparison Project.

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

GEOS 624 (CE 624)(GEOPH 624) APPLIED HYDROGEOLOGY (3-0-3)(S). Quantitative determination of hydrologic parameter values and groundwater flow conditions. Conceptual models and geologic context, boundary condition, analytical and numerical solution techniques, measurement methods, applications to engineering and environmental problems. May be taken for CE, GEOPH, or GEOS credit, but only in one department. PREREQ: CE 623 or GEOPH 623 or GEOS 623 or PERM/INST.

GEOS 630 (CE 630) VADOSE ZONE HYDROLOGY (3-0-3)(F)(Even years). Laboratory and field methods for characterizing physical and hydraulic properties of soils, solution of variably saturated flow problems using analytical and numerical techniques. Computer simulations of flow and transport in variably saturated soils. May be taken for CE or GEOS credit, but not for both. PREREQ: CE 412, GEOS 412, CE 512, or GEOS 512 or PERM/INST.

GEOS 633 (CE 633) CONTAMINANT HYDROGEOLOGY (3-0-3)(F)(Odd years). The fate and transport of dissolved solutes and non-aqueous phase liquids in groundwater systems. Students will analyze field data and develop conceptual models for contaminated sites. The role of engineers and hydrologists in environmental litigation will be addressed through case studies. May be taken for CE or GEOS credit, but not for both. PREREQ: CE 412 or CE 512 or GEOS 412 or GEOS 512, or PERM/INST.

GEOS 636 STABLE ISOTOPE GEOCHEMISTRY (3-0-3)(F/S). Comprehensive overview of theory, methods, and applications of stable isotope geochemistry to a wide range of earth science problems. PREREQ: PERM/INST.

GEOS 638 RADIOGENIC ISOTOPE GEOCHEMISTRY AND GEochronology (3-0-3)(F/S). Comprehensive overview of theory, methods, and applications of radiogenic isotope geochemistry and geochronology to a wide range of earth science problems. PREREQ: PERM/INST.

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

GEOS 643 ADVANCED STRUCTURAL GEOLOGY (2-3-3)(F)(Alternate years). Geometric, kinematic and dynamic analysis of plutonic rocks and metamorphic tectonics. Structural elements in plutons, their formation and interpretation as indicators of the tectonic environment during emplacement. Mesoscopic and microscopic study of rock fabrics, the mechanisms and processes of their formation and deformation, and their use as kinematic and strain indicators. PREREQ: PERM/INST.

GEOS 645 PHYSICS AND CHEMISTRY OF MOUNTAIN BUILDING (3-0-3)(F/S). An introduction to modern methods for analyzing the pressure-temperature-time paths and histories of metamorphic terrains comprising modern and ancient mountain belts; subjects to include quantitative geothermobarometry, chemical diffusion and closure temperature theory, geochronology and thermochronology, the thermal structure and evolution of mountain belts. PREREQ: PERM/INST.

GEOS 647 ADVANCED IGNEOUS PETROLOGY (3-0-3)(S)(Odd years). A study of igneous rocks with emphasis on their origin and the processes responsible for their diversity. Exercises will make use of the petrographic microscope and the departmental computer facilities. A field trip is required. PREREQ: PERM/INST.

GEOS 652 METHODS IN HYDROLOGIC SCIENCES (1-3)(S). Application of laboratory and field methods to problems in hydrology, biogeochemistry, and aqueous geochemistry, inclusive of experimental design, sampling techniques, analytical methods and data analysis. PREREQ: PERM/INST.

GEOS 661 ADVANCED IMAGE PROCESSING (2-2-3)(S). Techniques for data derived in the visible, infrared, and microwave spectra. Concepts of laser altimetry and terrestrial laser scanning (TLS) through hands-on field training and data acquisition and image processing. Topics may include preprocessing, endmember analysis, point cloud analysis, spectral unmixing, classification, and accuracy assessment. Practical application of theory for graduate student to apply in thesis and dissertation research. PREREQ: GEOG 561 or PERM/INST.

GEOS 680 SELECTED TOPICS IN HYDROMETEOROLOGIC MODELING (1-4 credits)(F/S)(Offered as justified). Topics related to simulation of hydrologic systems including coupled land-atmosphere modeling, hydrologic forecasting and data assimilation, modeling biogeochemical cycling, land modeling in integrated Earth system modeling, and physics-based watershed modeling.

GEOS 681 SELECTED TOPICS IN REMOTE SENSING (1-3 credits)(F/S). Theory and techniques of using remotely sensed data for mapping and analysis of the environment. Topics will vary within a focus on image processing techniques for selected hydrologic, biogeochemical, geomorphologic, and ecological processes. May be repeated for credit. PREREQ: PERM/INST.

GEOS 683 SELECTED TOPICS IN SOIL SCIENCE (1-4 credits)(Offered as justified). Selected topics related to aspects of soil science, including the physical, chemical, and biological characteristics of soils. May be presented in lectures, laboratory exercises and field trips. PREREQ: Background in geology and chemistry.

GEOS 685 SELECTED TOPICS IN BIOGEOCHEMISTRY (1-4 credits)(Offered as justified). Topics related to aspects of biogeochemistry including biogeochemical cycling, nutrient and contaminant fate in the environment, ecohydrology, reactive transport modeling, microbial processes in the environment, and climate change processes. May be presented in lectures, laboratory exercises and field trips. PREREQ: Background in chemistry, environmental sciences.

GEOS 693 DISSERTATION (0-V-V). Original research and analysis of results culminating in the preparation of a dissertation. (Pass/Fail.)
Department of History

College of Arts and Sciences

Chair: Nicholas Miller
Library Building, Room 192
(208) 426-1255 (phone)
historygradbsu@boisestate.edu (email)
https://history.boisestate.edu (website)

Graduate Faculty: Bieter, Brady, Finstuen, Gill, Huntley, Klein, Lubamersky, Madsen, McClain, Miller, Reinhardt, Wåkild, Walker, Woods

Graduate Degrees Offered

- Master of Arts in History
- Master of Applied Historical Research
- Graduate Certificate in History for Secondary Educators

General Information

The master's degrees and graduate certificate prepare students for work in the field of history. The history graduate programs are based upon a solid, committed faculty and multiple resources. The department of history offers courses in a wide variety of topics in the fields of non-western, United States, and European history. Graduate faculty are deeply involved in research and writing in their respective major fields (for more information on the faculty, see the department webpage: https://history.boisestate.edu). The department of history encourages a collegial atmosphere in which students and faculty work closely together. Its main goal is to prepare students for further study or for a successful career in history or history education. Besides a faculty rich in its diversity and talents, the location of the university in the capital city of Idaho gives students access to the Idaho State Archives, Idaho State Museum, the Idaho State Law Library, the Survey Research Center, the Frank Church Archive, and other research facilities. Boise State University's Albertsons Library has a collection of over 550,000 bound volumes and periodicals and subscribes to more than 4,900 serials. It is also a selective U.S. Government and Canadian document depository, as well as an Idaho State depository. The interlibrary loan system makes the holdings of other excellent collections accessible to Boise State students. Several large corporations with home offices in Boise have opened their archives to students and faculty doing research on department-supported topics.

Application Deadlines

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- January 15 (fall, with departmental funding)
- April 15 (fall, without departmental funding)
- September 15 (spring)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree in history or have completed more than 20 hours of history coursework from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree with 3.20 in history and 3.20 for the last two years of undergraduate study.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of application explaining why the student wishes to be admitted and the area of research they hope to pursue.
3. Official Graduate Record Examinations (GRE) General Test scores.
4. A writing sample (e.g., seminar paper, senior thesis, or published article).
5. Two letters of recommendation from persons competent to judge the applicant's potential for graduate study in history.

Graduate Assistantships

Applications and GRE scores must be received by January 15th to be considered for a graduate assistantship.

MASTER OF ARTS IN HISTORY

Coordinator of Graduate Studies: Lisa McClain
Library Building, Room 176
(208) 426-1985 (phone)
historygradbsu@boisestate.edu (email)

Degree Requirements

The Master of Arts in History prepares students to work as research historians, to continue in history doctoral programs, or to advance the preparation of history teachers in K-12 education who desire a master's degree. It is best suited for those seeking a career in an academic-related field. Students in the MA program may choose either the thesis or portfolio option as their culminating activity. The thesis option is recommended for students seeking entrance into a PhD program or into an academic research-and-publication-based career. It is a written exploration of a historical topic, based upon primary source research, which defends an analytical argument that is original and compelling. The topic and scope of the thesis will be determined by the student in consultation with the advisory committee. The portfolio option is recommended for students who teach in the K-12 public school system and/or students who do not plan to pursue additional graduate degrees. In conjunction with their adviser, students plan a cohesive course of work rooted in thoughtful learning objectives and/or career goals and produce a portfolio of written, project, and/or curriculum work.

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<td>HIST 500 The Nature of History</td>
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Culminating Activity

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<table>
<thead>
<tr>
<th>Portfolio</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved History Electives in Major Field (12 cr)</td>
<td></td>
</tr>
<tr>
<td>Approved History Electives in Minor Field (6 cr)</td>
<td></td>
</tr>
<tr>
<td>Additional History Electives (0-6 cr)</td>
<td></td>
</tr>
<tr>
<td>Approved Electives Outside of History (0-6 cr)</td>
<td></td>
</tr>
<tr>
<td>HIST 592 Portfolio (3 cr)</td>
<td></td>
</tr>
</tbody>
</table>

Total: 33

One year of foreign language is required for graduation; these credits do not count towards the required 33 credits for the degree.
MASTER OF APPLIED HISTORICAL RESEARCH

Coordinator of Graduate Studies: Lisa McClain
Library Building, Room 176
(208) 426-1985 (phone)
historygradbsu@boisestate.edu (email)

Degree Requirements

The Master of Applied Historical Research gives students the opportunity to combine an existing expertise with the study of history. Possible emphases include public history, urban affairs, the environment, policy studies (local, state, or international), and applied cultural studies. This is a professional degree aimed at those seeking a career in some area of public history (e.g., museums, national parks, archives, government or non-profit research). The applied research project is the culminating activity for the Master of Applied Historical Research. All projects, regardless of the medium, must include a substantial analytical written portion of no less than 5,000 words. The written portion must place the research in appropriate scholarly context. It must demonstrate scholarly competence in writing, research, analysis, and historical documentation.

<table>
<thead>
<tr>
<th>Master of Applied Historical Research</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 500 The Nature of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 501 The Study of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 502 Applied Historical Research</td>
<td>3</td>
</tr>
<tr>
<td>Approved History Electives (18 cr) or Approved History electives (6-18 cr)</td>
<td>18</td>
</tr>
<tr>
<td>Approved internships and/or non-history electives (0-12 cr)</td>
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<tr>
<td>HIST 591 Project</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>33</td>
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</tbody>
</table>

GRADUATE CERTIFICATE IN HISTORY FOR SECONDARY EDUCATORS

Coordinator of Graduate Studies: Lisa McClain
Library Building, Room 176
(208) 426-1985 (phone)
lmcclain@boisestate.edu (email)

Certificate Requirements

This is a professional certificate providing experienced secondary educators who do not desire a master’s degree the requisite graduate-level training needed to teach concurrent enrollment courses in history. Coursework emphasizes curriculum development and advanced historical studies related to the courses a student desires to teach. Students in the certificate program do not have a culminating activity.

<table>
<thead>
<tr>
<th>Graduate Certificate in History for Secondary Educators</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCOLL 516 Exploration of Pedagogy</td>
<td>2</td>
</tr>
<tr>
<td>HIST 500 The Nature of History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 501 The Study of History</td>
<td>3</td>
</tr>
<tr>
<td>History electives approved by advisor and linked to the concurrent enrollment courses they plan to teach, with no more than three (3) credits from HIST 591-598 courses.</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
</tr>
</tbody>
</table>

Course Offerings

HIST—History

HIST 500 THE NATURE OF HISTORY (3-0-3)(F). Analysis of what historians do and how the discipline has developed over time. Examines the major controversies over method and interpretation. Oral and written participation and a major paper are required. PREREQ: Admission to History graduate program or PERM/INST or PERM/GRAD COORD.

HIST 501 THE STUDY OF HISTORY (3-0-3)(S). Critical analyses of historical scholarship and source materials on a selected broad topic in global history. Emphasis placed upon honing professional skills, class discussion, historiography, and the nature of historical research. PREREQ: Admission to History graduate program or PERM/INST or PERM/GRAD COORD.

HIST 502 APPLIED HISTORICAL RESEARCH (3-0-3)(S). A seminar on the use and abuse of history in nonacademic settings. Potential topics include the application of historical thinking and methods in foreign policy, business history, city planning, historic preservation, environmental assessment, library and archives, historic sites, and museums. PREREQ: Admission to the graduate program or PERM/CHAIR.

HIST 580 SELECTED TOPICS: GRADUATE SEMINAR IN EUROPEAN HISTORY (3-0-3)(F/S/SU). Critical analyses of source materials and historical scholarship on topics of restricted scope in European History. Emphasizes placed upon student reports, class discussions, individual research on relevant topics and the writing of historical papers. PREREQ: Admission to History graduate program or PERM/INST.

HIST 581 SELECTED TOPICS: GRADUATE SEMINAR IN THE HISTORY OF THE AMERICAS (3-0-3)(F/S/SU). Critical analyses of source materials and historical scholarship on topics of restricted scope in Canadian, U.S., or Latin American History. Emphasizes placed upon student reports, class discussions, individual research on relevant topics and the writing of historical papers. PREREQ: Admission to History graduate program or PERM/INST.

HIST 582 SELECTED TOPICS: GRADUATE SEMINAR IN NON-WESTERN HISTORY (3-0-3)(F/S/SU). Critical analyses of source materials and historical scholarship on topics of restricted scope in African, Asian, or Middle Eastern History. Emphasizes placed upon student reports, class discussions, individual research on relevant topics and the writing of historical papers. PREREQ: Admission to History graduate program or PERM/INST.

HIST 585 SELECTED TOPICS: THEMES IN HISTORY (3-0-3)(F/S/SU). Critical analyses of historical scholarship and source materials on a selected topic in history. Emphasizes placed upon analyzing scholarship, class discussion, and the nature of historical research. Intensive reading and writing. May be repeated for credit. PRE/Coreq: HIST 500 or Admission to History graduate program or PERM/INST.
MASTER OF SCIENCE IN HYDROLOGIC SCIENCES

Department of Geosciences
Graduate Program Coordinator: Alejandro Flores
Environmental Research Building, Room 4151
(208) 426-2903 (phone)
(208) 426-4061 (fax)
lejoflores@boisestate.edu (email)
https://earth.boisestate.edu (website)

Department of Biological Sciences
Contact: Kevin Feris
Science Building, Room 226
(208) 426-5498 (phone)
(208) 426-1040 (fax)
kevinferis@boisestate.edu (email)
https://biology.boisestate.edu/ (website)

Department of Civil Engineering
Contact: Arvin Farid
Environmental Research Building, Room 3137
(208) 426-4827 (phone)
(208) 426-4800 (fax)
arvinfarid@boisestate.edu (email)
https://coen.boisestate.edu (website)

General Information
The program leading to the degree of Master of Science (MS) in Hydrologic Sciences requires completion of a core curriculum in the hydrologic sciences, elective courses chosen to meet student goals, and original research that culminates in a publicly defended thesis. The emphasis is on the scientific principles governing the movement of water and water-borne material through natural systems, the interaction of water with geological and biological systems, and tools to quantify and predict those movements and interactions. Participation by faculty members from the Department of Geosciences, Department of Biological Sciences, and the Department of Civil Engineering provides enriched delivery of courses and enhanced student guidance.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree in a science or engineering discipline from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. A letter of intent outlining goals for graduate study.
3. A current résumé.
4. Official Graduate Record Examinations (GRE) General Test scores.
5. A writing sample (publication, technical document, scientific abstract, or from prior coursework).
6. Undergraduate courses equivalent to one year each of calculus, chemistry, and calculus-based physics.
7. Completion of a Department of Geosciences College Course Summary for Prospective Student form.
8. Three letters of recommendation from academic faculty.

Graduate Teaching and Research Fellowships
Graduate fellowships including tuition and fee waivers are funded from three sources: appropriated state funds, endowments, and research grants and contracts. Applicants to the MS in Hydrologic Science program who submit all documents required by the admission procedure by February 1 of any given year will be considered for a state appropriated or endowed graduate fellowship to start the following fall semester. Information on graduate fellowships funded by research grants and contracts is available from the coordinator of the graduate program in hydrologic science. Prospective students are encouraged to contact individual faculty members for further information about research projects.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 500 Research Methods or GEOS 601 Introduction To Research Development</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 598 Graduate Seminar or Supervisory Committee approved seminar in CE or BIOL</td>
<td>1</td>
</tr>
<tr>
<td>GEOPH 522 Data Analysis and Geostatistics or BIOL 601 Biometry</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 512/CE 512 Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 516 Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 51B Applied Hydrologic Modeling</td>
<td>3</td>
</tr>
<tr>
<td>GEOS 526/CE 526 Aqueous Geochemistry</td>
<td>3</td>
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<tr>
<td>GEOS 652 Methods in Hydrologic Science</td>
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<tr>
<td>Electives Approved by the Supervisory Committee (at least 3 credits must be at 600 level)</td>
<td>6</td>
</tr>
<tr>
<td>Culminating Activity BIOL 593 Thesis or CE 593 Thesis or GEOS 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>32</td>
</tr>
</tbody>
</table>
Interdisciplinary Studies Program
College of Arts and Sciences

MASTER OF ARTS OR MASTER OF SCIENCE IN INTERDISCIPLINARY STUDIES

Program Director: Nicole Molumby
Education Building, Room 601
(208) 426-1414 (phone)
(208) 426-3006 (fax)
ids@boisestate.edu (email)

Graduate Degrees Offered
- Master of Arts in Interdisciplinary Studies
- Master of Science in Interdisciplinary Studies

General Information
Boise State University offers a Master of Arts/Master of Science degree program in Interdisciplinary Studies. In consultation with faculty, students may combine courses from more than one college or more than one department to create an individualized program of educational experience. The program is designed for mature students who wish to continue education at the graduate level but do not seek specialized training in a major area. The program is not a substitute for the traditional master’s degree; rather, it is intended for students with broader interests in several fields or those whose career goals do not match fully with a single, identifiable academic unit or department. Emphasis is placed on continued intellectual and cultural development in a constantly changing society where new intellectual and career interests may extend over several traditional specializations.

The Interdisciplinary Studies (IDS) Program is housed in the College of Arts and Sciences, and directly supervised by the Director of Interdisciplinary Studies. A university-wide Interdisciplinary Studies Committee consists of the Graduate Dean or Associate Dean and members from a broad range of disciplines appointed by the appropriate Dean. The Director of Interdisciplinary Studies serves as the chair of that committee and oversees the program. Each student in the program also has a graduate committee composed of three faculty members from the disciplines making up the student’s interdisciplinary program. The student’s graduate committee has the responsibility of helping the student select a particular program of study and recommending to the Interdisciplinary Studies Committee that it be accepted as the student’s formal plan of study, thereby indicating that the members of the committee regard it as a viable program of graduate study. The Interdisciplinary Studies Committee is responsible for approving the members of the proposed graduate committee and for deciding whether to approve the student’s plan of study.

Application Deadlines
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- September 14 (fall)
- February 15 (spring)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree. Those who fall below a GPA of 3.00 but received at least 3.25 for the most recent 60 credit hours will also be considered.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A cumulative GPA in all prior college level work of at least 3.00 (although students who fall below this requirement but who have a cumulative GPA of at least 3.25 for the most recent 60 credit hours will also be considered). Although each applicant’s prior academic record will be examined to determine whether there are compelling reasons for making an exception, normally the Interdisciplinary Studies Committee will not consider proposed degree plans from applicants who fail to meet this requirement.
3. A meeting with the IDS Program Director to discuss expectations and be advised as to the remainder of the admission process.
4. The selection of a graduate committee composed of 3 graduate faculty members, one of whom is to serve as committee chair.
5. A meeting with the graduate committee to discuss and prepare a degree plan.
6. The submission of a completed Personal Data form.
7. The submission of a completed form stating committee has met and approved the degree plan.
8. The submission of a degree plan and three-page written statement of justification which:
   • States intellectual, professional, or vocational reasons for requesting entry into the program.
   • Explains why traditional degree programs do not meet the applicant’s needs.
   • Justifies the selection of courses in relation to the conception of the individualized program as a whole.
9. The approval of the graduate committee and degree plan by the university-wide IDS committee. The graduate committee and degree plan must be approved prior to completion of more than 6 credits toward the program.
10. Applicants who wish to submit additional supporting materials such as GRE scores, letters of recommendation, or a preliminary description of their proposed program of study may do so.
11. Two letters of recommendation.

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Master of Arts or Master of Science in Interdisciplinary Studies

Each program is developed individually according to the student’s interests and background but must be intellectually defensible and clearly interdisciplinary in nature. In addition to any Graduate College requirements not mentioned here, the requirements of the IDS Program are as follows:

1) Course work must be selected from a minimum of two academic areas.
2) No more than 6 credits of work completed prior to approval of the degree plan by the IDS Committee may be included in the program.
3) No more than 11 credits of 300G or 400G courses may be applied toward the program.
4) No more than 9 transfer credits may be included in the program.
5) No more than 9 credits of independent study (596) may be included in the program.
6) Courses may not be challenged for credit.
7) The degree will consist of a total of no less than 33 credits, of which no more than 16 credits may be earned in the College of Business. Students may select (with IDS Committee approval) from a thesis/project option or a written examination option. The thesis/project will carry 6 credits. Under either option, the student will be required to draw critically upon the two or more disciplines studied and to integrate disciplinary insights.
8) Students completing the thesis/project option will, upon completion of that option, meet with their 3-person graduate committee for a final review of the thesis or project.
9) Students completing the examination option will take a written examination prepared by their 3-person graduate committee, with whom they will subsequently meet for a review of results.
10) Minor revisions to the plan of study may be approved by the Director of Interdisciplinary Studies upon the recommendation of the student’s graduate advisor; major changes must be approved by the university-wide IDS Committee.
11) All work toward the MA/MS degree in Interdisciplinary Studies must be completed within a period of seven years.

Degree Requirements

Course Offerings

INTDIS—Interdisciplinary Studies

INTDIS 591 PROJECT (0-V-6). Students are expected to draw critically upon the two or more disciplines studied and to integrate disciplinary insights. Before beginning the Project, a prospectus must be approved by the student’s graduate committee. After its completion, the Project must be defended at an oral examination scheduled by the graduate advisor.
PREREQ: Admission to candidacy.

INTDIS 593 THESIS (0-V-6). A Thesis must reflect scholarly integration of the two or more disciplines studied and demonstrate original research or new and logical interpretation of existing data. Before beginning the Thesis, a prospectus must be approved by the student’s graduate committee. After its completion, the Thesis must be defended at an oral examination scheduled by the graduate advisor. PREREQ: Admission to candidacy.
Department of Kinesiology

College of Health Sciences | School of Allied Health Sciences

Chair: John McChesney
Bronco Gymnasium, Room 209
(208) 426-4270 (phone)
(208) 426-1894 (fax)
johnmchchesney@boisestate.edu (email)

Graduate Faculty: Bell, Brown, Conger, Ford, Gao, Gibson, Greufe-Hall, Hammons, Johnson, Kempf, Lucas, Martin, McChesney, Moorcroft, Petraneck, Pfeiffer, Shimon, Simonson, Spear

Graduate Degrees Offered

- Master of Athletic Leadership
- Master of Athletic Training
- Master of Kinesiology, Behavioral Studies
- Master of Kinesiology, Biophysical Studies
- Master of Kinesiology, Socio-historical Studies
- Master of Science in Kinesiology, Behavioral Studies
- Master of Science in Kinesiology, Biophysical Studies
- Master of Science in Kinesiology, Socio-historical Studies

MASTER OF ATHLETIC LEADERSHIP

Program Coordinator: Scott Moorcroft
Bronco Gymnasium, Room 108C
(208) 426-4274 (phone)
malprogram@boisestate.edu (email)

General Information

The Master of Athletic Leadership (MAL) is designed to enhance the leadership skills of current and future athletic leaders for service in intercollegiate, interscholastic, and/or youth sport athletic programs. The program is practitioner-oriented with a strong emphasis on participant development of essential leadership competencies for creating and maintaining athlete-centered athletic programs.

Application Deadline

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- February 1 (summer admission only)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of application describing background and professional goals and aspirations.
3. A current résumé.
4. Official Graduate Record Examinations (GRE) General Test scores from the verbal, quantitative and analytical reports (must have been taken within five years of application). Scores of 33% and above will receive favorable attention.
5. Three letters of recommendation addressing professional competencies and potential for leadership both personal and professional.

MASTER OF ATHLETIC TRAINING

Program Coordinator: Dave Hammons
Bronco Gymnasium, Room 131
(208) 426-4863 (phone)
davidhammons@boisestate.edu (email)

General Information

The Master of Athletic Training (MAT) program is a professional degree for entry into the athletic training profession. Admission to AT courses requires admission to the MAT. The program focus is developing future clinicians through in depth study and skill attainment in the following areas of health care for the physically active population: pathology of injuries and illness, evaluation and management of acute and chronic orthopaedic injury and medical conditions, risk management and injury prevention, physical rehabilitation and conditioning, applied nutrition, psychosocial intervention, and health care administration. The MAT includes both an academic and clinical component designed for full-time students over a continuous 2 year (24 month) period. In addition to academic requirements commitment to clinical experiences is expected with an average weekly time commitment of 20 hours.

Application Deadline

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- January 15 (priority, summer admission only)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of application describing background, professional goals, academic interests, and potential faculty member.
3. Official Graduate Record Examinations (GRE) General Test scores from tests taken within five years of application. Scores of 33% and above in verbal and quantitative will receive favorable attention.
4. A writing sample.
5. The MAT application (contact information, cover letter, résumé, references).
6. A physical examination, health history, and immunization records.
7. The technical standards for admission.
8. A background check.
9. An interview with the Athletic Training admissions selection committee.
10. Two letters of recommendation.

Degree Requirements

<table>
<thead>
<tr>
<th>Master of Athletic Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
</tr>
<tr>
<td>Requirements</td>
</tr>
<tr>
<td>MAT 500 Foundations of Clinical Practice in Athletic Training</td>
</tr>
<tr>
<td>MAT 503 Principles of Athletic Training</td>
</tr>
<tr>
<td>MAT 505 Fundamentals of Clinical Diagnosis and Therapeutic Interventions</td>
</tr>
<tr>
<td>MAT 510 Clinical Practice in Athletic Training I</td>
</tr>
<tr>
<td>MAT 512 Therapeutic Interventions: Modalities</td>
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<tr>
<td>MAT 514 Diagnosis and Therapeutic Interventions I: Lower Extremity</td>
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<tr>
<td>MAT 520 Clinical Practice in Athletic Training II</td>
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<tr>
<td>MAT 523 Diagnosis and Therapeutic Interventions II: Upper Extremity</td>
</tr>
<tr>
<td>MAT 530 Clinical Practice in Athletic Training III</td>
</tr>
<tr>
<td>MAT 532 Diagnosis and Therapeutic Interventions III: Medical Conditions and Pharmacology</td>
</tr>
<tr>
<td>MAT 534 Advanced Nutrition and Exercise Prescription</td>
</tr>
<tr>
<td>MAT 536 Administration in Athletic Training</td>
</tr>
<tr>
<td>MAT 540 Clinical Practice in Athletic Training IV</td>
</tr>
<tr>
<td>MAT 543 Diagnosis and Therapeutic Interventions IV: Head, Face, and Spine</td>
</tr>
<tr>
<td>MAT 550 Clinical Practice in Athletic Training V</td>
</tr>
<tr>
<td>MAT 552 Current Evidence and Topics in Athletic Training</td>
</tr>
<tr>
<td>MAT 598 Seminar</td>
</tr>
<tr>
<td>KINES 532 Applied Sport Psychology</td>
</tr>
<tr>
<td>KINES 551 Research Design in Exercise and Sport</td>
</tr>
<tr>
<td>Culminating Activity</td>
</tr>
<tr>
<td>MAT 591 Project</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

MASTER OF KINESIOLOGY
Graduate Program Coordinator: Shelley Lucas
Bronco Gymnasium, Room 101
(208) 426-2446 (phone)
smlucas@boisestate.edu (email)

General Information
The Master of Kinesiology (MK) and the Master of Science in Kinesiology (MSK) are designed to accommodate students with diverse academic backgrounds. The MK program is practitioner oriented, concluding with a capstone course. The MSK is research oriented and suited for those students particularly interested in pursuing a doctoral or professional degree. This degree requires the completion of a thesis, which must be successfully defended at a final oral examination. Both programs offer three areas of emphasis: behavioral, biophysical, and socio-historical studies. When applying for admission to either the MK or MSK program, applicants will select one area of emphasis.

Application Deadline
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- May 1 (fall admission only)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions Office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. A letter of application, including background, academic interests, career goals and potential faculty mentor.
3. A current résumé.
4. Official Graduate Record Examinations (GRE) General Test scores from tests taken within five years of application. Scores of 33% and above will receive favorable attention.
5. Appropriate coursework (including exercise physiology) that provides the foundation for the graduate area of study as determined by Kinesiology Department Graduate Faculty.
6. Three letters of recommendation.
## Degree Requirements

### Master of Kinesiology

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Requirements</strong></td>
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<tr>
<td>Select one course from each of the following areas:</td>
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</tr>
<tr>
<td>Behavioral Studies</td>
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<tr>
<td>KINES 530 Psychology of Exercise and Sport</td>
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<tr>
<td>KINES 560 Motor Learning</td>
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<tr>
<td>Biophysical Studies</td>
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<tr>
<td>KINES 510 Physiology of Activity</td>
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<tr>
<td>KINES 520/ME 520 Advanced Biomechanics</td>
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<tr>
<td>Socio-historical Studies</td>
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<tr>
<td>KINES 535 Sociology of Exercise and Sport</td>
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<tr>
<td>KINES 550 Philosophy of Exercise and Sport</td>
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<tr>
<td>KINES 582 Selected Topics in Sport History</td>
<td></td>
</tr>
<tr>
<td>KINES 598 Graduate Seminar</td>
<td>(Enrollment is required each Fall semester of all graduate students in residence; two credits may be applied toward graduation.)</td>
</tr>
<tr>
<td><strong>Methods of Inquiry</strong></td>
<td></td>
</tr>
<tr>
<td>KINES 551 Research Design in Exercise and Sport</td>
<td>10-11</td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td></td>
</tr>
<tr>
<td>ED-LLC 503 Applied Theoretical Foundations of Bilingual Education/ESL and Multiculturalism</td>
<td></td>
</tr>
<tr>
<td>ED-ESP 552 Language Arts for Special Educators</td>
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<tr>
<td>HIST 500 The Nature of History</td>
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<tr>
<td>KINES 552 Applied Statistical Methods</td>
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<tr>
<td>KINES 572 Grant Writing</td>
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<td>SOC 500 Advanced Social Statistics</td>
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<tr>
<td>SOC 502 Qualitative Social Research Methods</td>
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<tr>
<td>SOC 571 Feminist Sociological Theory</td>
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<tr>
<td><strong>Approved Electives</strong></td>
<td>12</td>
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<tr>
<td>A list of approved electives for each of the three areas of emphasis, Behavioral Studies, Biophysical Studies, and Socio-historical Studies, is available on the departmental website <a href="https://kinesiology.boisestate.edu">https://kinesiology.boisestate.edu</a>.</td>
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<tr>
<td>*KINES 590 Practicum/Internship</td>
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<tr>
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<td><strong>Total</strong></td>
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</table>

*These courses are to be taken together during the final semester of enrollment.

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### Master of Science in Kinesiology

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<td><strong>Core Requirements</strong></td>
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<td>Select one course from each of the following areas:</td>
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<tr>
<td>Behavioral Studies</td>
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<tr>
<td>KINES 530 Psychology of Exercise and Sport</td>
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<tr>
<td>KINES 560 Motor Learning</td>
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<tr>
<td>Biophysical Studies</td>
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<tr>
<td>KINES 510 Physiology of Activity</td>
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<tr>
<td>KINES 520/ME 520 Advanced Biomechanics</td>
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<tr>
<td>Socio-historical Studies</td>
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<tr>
<td>KINES 535 Sociology of Exercise and Sport</td>
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<tr>
<td>KINES 550 Philosophy of Exercise and Sport</td>
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<tr>
<td>KINES 582 Selected Topics in Sport History</td>
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<tr>
<td>KINES 598 Graduate Seminar</td>
<td>(Enrollment is required each Fall semester of all graduate students in residence; two credits may be applied toward graduation.)</td>
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<tr>
<td><strong>Methods of Inquiry</strong></td>
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<td>KINES 551 Research Design in Exercise and Sport</td>
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<td>Select one of the following courses:</td>
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<td>ED-LLC 503 Applied Theoretical Foundations of Bilingual Education/ESL and Multiculturalism</td>
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<td>ED-ESP 552 Language Arts for Special Educators</td>
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<td>HIST 500 The Nature of History</td>
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<td>KINES 552 Applied Statistical Methods</td>
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<td>KINES 572 Grant Writing</td>
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<td>SOC 500 Advanced Social Statistics</td>
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<tr>
<td>KINES 593 Thesis</td>
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<td>KINES 688 Thesis Proposal</td>
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Course Offerings

KIN-AL—Kinesiology—Athletic Leadership

KIN-AL 501 FOUNDATIONS OF ATHLETIC LEADERSHIP (3-0-3) (SU). Emphasizes the knowledge, skills, and dispositions needed of leaders in athletic programs. Includes a study of advanced leadership theory and its application to athletic programs and a focus on personal leadership development. PREREQ: ADM/PROG.

KIN-AL 502 ATHLETIC ORGANIZATIONAL COMMUNICATION (3-0-3)(SU). Analysis of organizational communication theory and research as related to athletic leadership. Examines communicative practices associated with relationship development, leadership, and collaboration. PREREQ: ADM/PROG.

KIN-AL 503 ATHLETIC PROGRAM MANAGEMENT (3-0-3)(SU). Examines managerial responsibilities of athletic programs including legal liability, sport law, finance and marketing, personnel management, and program evaluation. PREREQ: ADM/PROG.

KIN-AL 504 PHILOSOPHY OF SPORT AND ATHLETIC LEADERSHIP (3-0-3)(F/S). Examines philosophical and ethical issues within sport and society and their corresponding relevancy to athletic leadership settings. PREREQ: ADM/PROG.

KIN-AL 505 SOCIOLOGY OF SPORT AND ATHLETIC LEADERSHIP (3-0-3)(F/S). Examines sociological and cultural issues within sport and society and their corresponding relevancy to athletic leadership settings. PREREQ: ADM/PROG.

KIN-AL 506 PSYCHOLOGICAL ASPECTS OF ATHLETIC LEADERSHIP (3-0-3)(SU). Examines individual differences and environmental factors relevant to athletic leadership as identified by sport and exercise psychology theory and research. Focuses on applying psychological skills training programs to athletes, coaches, and administrators. PREREQ: ADM/PROG.

KIN-AL 507 ATHLETIC LEADERSHIP ACADEMY (2-0-2)(F/S). Provides training and mentoring from current and former athletic leaders from Boise State University and other institutions regarding various facets of athletic leadership. PREREQ: ADM/PROG.

KIN-AL 508 ATHLETIC LEADERSHIP PRACTICUM I (0-5-5)(F/S). Provides students with a supervised practical experience in athletic leadership under the direct supervision of a qualified mentor. PREREQ: ADM/PROG.

KIN-AL 509 ATHLETIC LEADERSHIP PRACTICUM II (0-5-5)(F/S). Continuation of KIN-AL 508. PREREQ: KIN-AL 508.

KINES—Kinesiology

KINES 503 (ZOOL 503) HEAD AND NECK ANATOMY (2-2-3)(F/S). Use of human cadavers to study projections of head and neck with emphasis on clinical relevance. Integument, osteology, myology, circulatory systems, lymphatics, oral and dental tissues, neuroanatomy, cranial nerves, general innervation, and salivary glands. May be taken for KINES or ZOOL credit but not both. PREREQ: BIOL 191-192 or BIOL 227-228 or PERM/INST.

KINES 506 SPORTS NUTRITION (3-0-3)(S)(Odd years). An integration of exercise physiology and nutrition, this course will investigate nutrition as it relates to exercise performance. PREREQ: Admission to MK or MS in Kinesiology program, or PERM/INST.

KINES 510 PHYSIOLOGY OF ACTIVITY (3-0-3). A study of the various factors affecting human performance and subsequent adaptations of the body to single and repeated bouts of exercise.

KINES 511 ENVIRONMENTAL PHYSIOLOGY (3-0-3)(F)(Even Years). Focuses on the effects of environmental stressors on human physiology to provide understanding of regulatory physiology. Includes thermoregulation, cardiovascular hemodynamics, pulmonary ventilation, and plasma volume regulation. Provides experiential learning through laboratory activities and an optional field experience. Requires a course fee for the laboratory activities and an additional fee for the optional field experience. PREREQ: 300-level exercise physiology or 400-level human physiology or PERM/INST.

KINES 515 EXERCISE PHYSIOLOGY LAB (2-2-3). Practical application of the principles that govern response and adaptation of the human body to exercise, utilizing laboratory equipment to collect data and analyze results. PREREQ: KINES 510 or PERM/INST.

KINES 520 (ME 520) ADVANCED BIOMECHANICS (3-0-3)(F). Mechanical principles and analytical methods used in traditional and contemporary biomechanics. Topics include functional anatomy, joint kinematics, inverse dynamics, mechanical properties of biological materials, and modeling of the musculoskeletal system. May be taken for KINES or ME credit, but not both. PREREQ: ENGR 220 or PERM/INST.

KINES 525 (ME 525) LABORATORY TECHNIQUES IN BIOMECHANICS (3-0-3)(S). An introduction to the analysis techniques used to study the mechanics of human motion. Topics include cinematography, videography, force transducers, electromyography and computer analysis techniques. May be taken for KINES credit or ME credit, but not both. PREREQ: KINES 520/ ME 520 or PERM/INST.

KINES 530 PSYCHOLOGY OF EXERCISE AND SPORT (3-0-3). A study of psychological factors as they relate to exercise, sport and performance. Content includes personality traits, motivation, anxiety/arousal, and intervention/coping strategies.


KINES 532 APPLIED SPORT PSYCHOLOGY (3-0-3)(F/S). Examines issues related to the psychological impact of competition and examines psychological skills training applicable to physical educators, coaches, and athletes, as well as how these skills may be useful in the psychological rehabilitation of the injured athlete and career termination.

KINES 535 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY (3-0-3)(F)(Even Years). Uses a critical perspective to examine sport and other forms of physical activity as significant social and cultural institutions, and to explore relationships to sexism, racism, homophobia, ableism, classism and other forms of oppression.

KINES 540 APPLIED PRINCIPLES OF CONDITIONING (2-2-3). Advanced study of the conditioning process. Emphasis on application of the conceptual to practical situations. Involves program planning, objectives, exercise analysis for conditioning specificity, exercise prescription and other conditioning variables affecting performance. PREREQ: KINES 510 or PERM/INST.

KINES 545 CLINICAL EXERCISE PHYSIOLOGY AND PRESCRIPTION (3-0-3). The study of clinical exercise physiology through special considerations: risk detection and reduction; age-related adaptations; various chronic illnesses; cardiovascular, musculoskeletal, and metabolic diseases; and their application to exercise prescription.

KINES 550 PHILOSOPHY OF EXERCISE AND SPORT (3-0-3). A study of the philosophical foundations underlying exercise and sport. Topics include values development, design and evaluation of individual and program philosophy and goal structuring.

KINES 551 RESEARCH DESIGN IN EXERCISE AND SPORT (3-0-3) (F). Includes critical analysis of published research in terms of research design, statistical procedures, concepts of validity, experimentation and control; classification of various research methods; various types of research problems; and the relevant attributes of experimental designs. A research proposal is a requirement of the course.

KINES 552 (MLTHSICI 552) APPLIED STATISTICAL METHODS (3-0-3)(ES). An introduction to statistical techniques utilized in the treatment of data. The techniques to be covered include measures of central tendency and variability, correlation measures, probability, analysis of variance, and regression analysis. May be taken for KINES or MLTHSICI credit, but not both.
MAT 500 MOTOR LEARNING (3-0-3). A study of the relevant empirical evidence and research in the field of motor learning and performance, including the learning process, feedback, timing, information processing, transfer, perception, motivation and practice conditions.

MAT 561 DEVELOPMENTAL ISSUES IN YOUTH SPORT (3-0-3)(F/S/SU). Raises critical awareness of the developmental issues (motor, cognitive, and social) surrounding youth sport and specialization. Explores issues from a motor behavior perspective, integrating expertise literature from motor learning and applying concepts of sport readiness and developmentally appropriate activities from the motor development literature.

MAT 570 (MHLTHSCI 570) HEALTH PROMOTION (3-0-3)(F/S). Coverage of individual, interpersonal, and group/community theories of health behavior change, with emphasis on designing, implementing, and evaluating theory-based interventions. Other topics include studying the impact of diversity and social and economic factors on health, and improving the effectiveness of health behavior change programs for underserved groups. May be taken for KINES or MHLTHSCI credit, but not both.

MAT 572 (MHLTHSCI 572) GRANT WRITING (3-0-3)(SU). Examination of the process of securing resources from external entities. Students will learn and apply a variety of techniques employed in proposal development and grant authorship. May be taken for KINES or MHLTHSCI credit, but not both.

MAT 574 (MHLTHSCI 574) HEALTH PROMOTION AND OPTIMAL AGING (3-0-3)(F)(Even years). Focus on promoting healthful behavior and quality of life among older adults. Application of theory, research, and practice to gerontological health promotion and wellness. May be taken for KINES or MHLTHSCI credit, but not both.

SELECTED TOPICS:
- KINES 581 SELECTED TOPICS IN YOUTH SPORT.
- KINES 582 SELECTED TOPICS IN SPORT HISTORY.
- KINES 583 SELECTED TOPICS IN SPORTS NUTRITION.

MAT—Master of Athletic Training

MAT 503 PRINCIPLES OF ATHLETIC TRAINING (3-2-4)(SU). Examines the knowledge and skills necessary to prevent and provide care for injuries and illnesses in the physically active patient, including: injury/illness epidemiology, injury prevention, emergency management, environment conditions, orthopedic taping and bracing. PREREQ: Admission to the Master of Athletic Training program.


MAT 510 CLINICAL PRACTICE IN ATHLETIC TRAINING I (0-11-3)(F). Application of associated clinical proficiencies during direct or simulated patient care. Students engage in clinical practice under the direct supervision of an athletic trainer or other licensed health care provider. PREREQ: MAT 500.

MAT 512 THERAPEUTIC INTERVENTIONS: MODALITIES (2-1-2)(F). Examines the theory and application of therapeutic modalities in patient care including an in-depth study of the healing process. Emphasis on the application of therapeutic modalities in a clinical setting, including appropriate parameters, patient set-up, and indications/contraindications of use. PREREQ: Admission to the Master of Athletic Training program.

MAT 513 ORTHOPAEDIC CLINICAL PRACTICE (3-0-3)(SU). Application of orthopaedic proficiencies during direct or simulated patient care. Students engage in clinical practice in a variety of settings under the direct supervision of an athletic trainer or other licensed health care provider. PREREQ: MAT 500.


MAT 520 CLINICAL PRACTICE IN ATHELETIC TRAINING II (0-11-3)(S). Application of associated clinical proficiencies during direct or simulated patient care. Students engage in clinical practice in a variety of settings under the direct supervision of an athletic trainer or other licensed health care provider. PREREQ: MAT 510.

MAT 523 DIAGNOSIS AND THERAPEUTIC INTERVENTIONS II: UPPER EXTREMITY (3-2-4)(S). Investigation and application of orthopedic differential diagnosis and associated treatment protocols of the upper extremity. PREREQ: Admission to the Master of Athletic Training program.

MAT 530 CLINICAL PRACTICE IN ATHELETIC TRAINING III (0-4-1)(SU). Application of associated clinical proficiencies during direct or simulated patient care. Students engage in clinical practice in a variety of settings under the direct supervision of an athletic trainer or other licensed health care provider. PREREQ: MAT 520.

MAT 532 DIAGNOSIS AND THERAPEUTIC INTERVENTIONS IV: MEDICAL CONDITIONS AND PHARMACOLOGY (2-0-2)(SU). Examination of common medical conditions and associated pharmacologic interventions in the physically active population. PREREQ: Admission to the Master of Athletic Training program.

MAT 534 ADVANCED NUTRITION AND EXERCISE PRESCRIPTION (2-1-2)(SU). Theory and application of nutrition and exercise prescription in relation to the physiology of physical activity. Emphasis on an evidenced based approach to nutrition and exercise planning with consideration of the impact dietary supplementation has on patient health. PREREQ: Admission to the Master of Athletic Training program.

MAT 536 ADMINISTRATION IN ATHELETIC TRAINING (2-0-2)(SU). Exploration of the principles and issues of health care administration related to the athletic training profession. Topics include: leadership strategies, insurance and billing practices in relation to medical and business value models, information and facility management, ethical and legal best practices in athletic training. PREREQ: Admission to the Master of Athletic Training program.

MAT 540 CLINICAL PRACTICE IN ATHELETIC TRAINING IV (0-11-3)(F). Application of associated clinical proficiencies during direct or simulated patient care. Students engage in clinical practice in a variety of settings under the direct supervision of an athletic trainer or other licensed health care provider. PREREQ: MAT 530.

MAT 543 DIAGNOSIS AND THERAPEUTIC INTERVENTIONS III: HEAD, FACE, AND SPINE (3-2-4)(F). Investigation and application of orthopaedic and neurologic differential diagnosis and associated treatment protocols of the head, face and spine. PREREQ: Admission to the Master of Athletic Training program.

MAT 550 CLINICAL PRACTICE IN ATHELETIC TRAINING V (0-11-3)(S). Application of associated clinical proficiencies during direct or simulated patient care. Students engage in clinical practice in a variety of settings under the direct supervision of an athletic trainer or other licensed health care provider. PREREQ: MAT 540.

MAT 552 CURRENT EVIDENCE AND TOPICS IN ATHLETIC TRAINING (2-0-2)(SU). Exploration and discussion of current trends in the practice and research of athletic training. PREREQ: Admission to the Master of Athletic Training program.

MAT 591 PROJECT (V-V-V)(F/S/SU).

MAT 598 SEMINAR (V-V-V)(F/S/SU).
Department of Literacy, Language, and Culture

College of Education

Chair: Roger Stewart
Education Building, Room 529
(208) 426-2862 (phone)
rstewar@boisestate.edu (email)

Graduate Faculty: Boothe, Chase, Mulhern, Peralta, Rodriguez, Son, Steiner, Stewart, Wright

Graduate Degree Offered

- Master of Arts in Education, Literacy
- Master of Education in Bilingual Education
- Master of Education in English as a New Language

General Information

The Department of Literacy, Language, and Culture offers courses that reflect a balanced approach to literacy learning and prepares educational professionals to work effectively with diverse student populations in K-8 general, bilingual, and English as a new language (ENL) classrooms. The coursework prepares candidates to apply foundational knowledge from literacy, linguistics and language acquisition theory and to develop, implement, and manage culturally and linguistically responsive instruction, performance tasks, and assessments in the K-8 classroom.

MASTER OF ARTS IN EDUCATION, LITERACY

Graduate Program Coordinator: Roger Stewart
Education Building, Room 503
(208) 426-2862 (phone)
rstewar@boisestate.edu (email)

General Information

The Master of Arts in Education, Literacy, is designed to extend each candidate's academic and professional background in the field of literacy and language learning and development through the combination of course requirements that meet the standards for reading professionals recommended by the International Literacy Association. Certified teachers will have the option of earning an Idaho State Literacy endorsement.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree. A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A 500-1000 word statement that explains professional goals and the ways the program will help achieve them.
3. A list of teaching experience.
4. A list of teaching experience.
5. A 500-1000 word statement that explains professional goals and the ways the program will help achieve them.
6. A list of teaching experience.
7. A 500-1000 word statement that explains professional goals and the ways the program will help achieve them.
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9. A 500-1000 word statement that explains professional goals and the ways the program will help achieve them.
10. A list of teaching experience.

Degree Requirements

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<th>Master of Arts in Education, Literacy</th>
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<tbody>
<tr>
<td>Course Number and Title</td>
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<tr>
<td>Literacy and Educational Foundations</td>
</tr>
<tr>
<td>ED-CIFS 506 Issues in Education</td>
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<tr>
<td>ED-LLC 540 Foundation of Literacy Instruction</td>
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<tr>
<td>Research in Literacy</td>
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<tr>
<td>ED-CIFS 503 Fundamentals of Educational Research</td>
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<tr>
<td>ED-LLC 556 Applied Research in Large-Scale Literacy Assessment</td>
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<td>ED-LLC 557 Research Base for Contemporary Literacy Curricula</td>
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<td>ED-LLC 560 Interpreting Research in Literacy</td>
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<td>Assessment and Instruction</td>
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<td>ED-LLC 541 Assessment and Instruction: Reading Difficulties K-12</td>
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<td>ED-LLC 542 Best Practices in Literacy Improvement</td>
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<td>Diversity of Literacy Learners</td>
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<td>ED-LLC 502 Methods of Teaching English Language Learners</td>
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<td>ED-LLC 548 Psycholinguistics and Literacy</td>
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<td>ED-LLC 559 Language, Literacy and Culture</td>
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<td>Content Literacy</td>
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<td>ED-LLC 550 Advanced Content Area Literacy</td>
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<td>Language for Youth</td>
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<td>ED-LLC 506 Multicultural Literature: Promoting Social Justice</td>
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<td>ED-LLC 546 Advanced Study of Children’s Literature</td>
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<td>ED-LLC 547 Advanced Young Adult Literature</td>
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<td>Writing Instruction</td>
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<td>ED-LLC 545 Writing Processes, Instruction, and Assessment: K-8</td>
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<td>ED-LLC 558 Advanced Writing Processes and Assessment</td>
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<td>New Literacies</td>
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<td>ED-LLC 552 Technology and Literacy</td>
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<td>EDTECH 531 Teaching and Learning in Virtual Worlds</td>
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<td>EDTECH 532 Educational Games and Simulations</td>
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<td>EDTECH 533 YouTube for Educators</td>
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<td>EDTECH 534 Mobile App Design for Teaching &amp; Learning</td>
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<td>EDTECH 541 Integrating Technology into the Classroom Curriculum</td>
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<td>Culminating Activity</td>
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<td>Thesis</td>
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<td>Students who wish to complete the thesis option must do so with the assistance of their advisor. Students are required to complete ED-LLC 556 or ED-LLC 557 for the Research in Literacy requirement as well as 6 credits in the following: ED-LLC 593 Thesis (6 cr)</td>
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<tr>
<td>Capstone</td>
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<td>Professional Growth Aligned to Standards</td>
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<tr>
<td>Required for Certified or practicing teachers.</td>
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<tr>
<td>ED-LLC 672 Capstone Proposal (Professional Growth Aligned to Standards)(1 cr)</td>
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<td>ED-LLC 692 Capstone Course (Professional Growth Aligned to Standards)(2 cr)</td>
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<tr>
<td>Or</td>
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<tr>
<td>Literacy in Society</td>
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<tr>
<td>Required for students who are not certified teachers.</td>
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<tr>
<td>ED-LLC 672 Capstone Proposal (Literacy in Society)(1 cr)</td>
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<tr>
<td>ED-LLC 692 Capstone Course (Literacy in Society)(2 cr)</td>
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<tr>
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</table>

Completion of the required courses in the Master of Arts in Education, Literacy may qualify the candidate for a State of Idaho Literacy Endorsement for state certification. With the assistance of their advisor, the candidate can select appropriate courses to meet endorsement requirements. A complete list of courses that meet the Idaho State Literacy Endorsement requirements can be found at https://education.boisestate.edu/literacy.
MASTER OF EDUCATION IN BILINGUAL EDUCATION

Graduate Program Coordinator: Roger Stewart
Education Building, Room 503
(208) 426-2862 (phone)
rstewar@boisestate.edu (email)

General Information
To be a bilingual teacher is to be prepared to teach all content area subjects in two languages, Spanish and English, and to teach them in the context of both the Latino and Anglo cultures. Bilingual teachers must be fluent in Spanish and English.

The courses in the program are all structured in terms of learning outcomes, and students will be assisted in achieving those outcomes through active, performance-based pedagogical strategies.

1. Learning is a constructive/developmental process.
2. The acquisition of knowledge is essential.
3. Teaching is a collaborative act and requires collaboration.
4. Education is essentially democratic, hence political.
5. Providing Spanish language competence.

In this program, educators will examine multiple points of view, multiple theories, and practical applications that are grounded in a plurality of concerns, in order to create excellent classroom and other learning environments to educate a widely diverse student population. While teachers will be exposed to current theory, research, and practice, they will also spend a large proportion of their time constructing knowledge for themselves, with faculty guidance, through applied learning projects. In addition, they will participate in a capstone course, which is the culminating activity required to be taken after all course work has been completed.

Special Notice
Cost per 3-credit-hour class is the same for Idaho residents and non-residents.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions Office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

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<tr>
<td>ED-CIFS 506 Issues in Education</td>
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<td>ED-LLC 500 The Bilingual/ESL Curriculum: Creating, Planning, Implementation</td>
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<td>*ED-LLC 501 Culturally Diverse Learners</td>
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<td>ED-LLC 502 Methods of Teaching English Language Learners</td>
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<tr>
<td>*ED-LLC 503 Applied Theoretical Foundations of Bilingual Education/ESL and Multiculturalism</td>
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<td>ED-LLC 504 Literacies for Bilingual and English Language Learners</td>
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<tr>
<td>ED-LLC 505 Applied Linguistics: From Theory to Practice</td>
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<td>*ED-LLC 507 Parental Involvement: Building a Community of Bilingual/ESL Learners</td>
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<tr>
<td>*ED-LLC 509 Field Experience in Bilingual Classrooms</td>
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<td>*ED-LLC 531 Advanced Assessment of Learners in the Bilingual/ESL Classroom</td>
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<td>Total</td>
<td>30-31</td>
</tr>
</tbody>
</table>

This master’s program is for both elementary and secondary teaching P-12. The Bilingual Education program uses only the Spanish and English languages and the Latino and Anglo cultures. It requires a student to be bilingual in Spanish and English prior to entering the program. Completion of the Bilingual Education program does not qualify the candidate for state certification. However, these courses may be used toward certification renewal or endorsement.

To earn bilingual endorsement student must have advanced level score on ACTFL and three upper division Spanish language courses (9 credit hours), one in writing and one in literature.

*Courses approved for State of Idaho Bilingual/ENL K-12 endorsement.

MASTER OF EDUCATION IN TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES

Graduate Program Coordinator: Roger Stewart
Education Building, Room 503
(208) 426-2862 (phone)
rstewar@boisestate.edu (email)

General Information
The primary purpose of Teaching English to Speakers of Other Languages (TESOL) is to teach students English, enabling them to succeed in schools where English is the language of instruction. TESOL is not designed to do the work of bilingual education, that is, teach all of the content subjects in a way that will maintain students at grade level. It is designed primarily to teach English by using vocabulary and structures commonly found in the content area classes.
Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.
A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. A 500-1000 word statement that explains professional goals and the ways the program will help achieve them.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ED-CIFS 506 Issues in Education</td>
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<tr>
<td>ED-LLC 500 The Bilingual/ESL Curriculum: Creating, Planning, Implementation</td>
<td>3</td>
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<tr>
<td>ED-LLC 501 Culturally Diverse Learners</td>
<td>3</td>
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<tr>
<td>ED-LLC 502 Methods of Teaching English Language Learners</td>
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<tr>
<td>ED-LLC 503 Applied Theoretical Foundations of Bilingual Education/ESL and Multiculturalism</td>
<td>3</td>
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<tr>
<td>ED-LLC 504 Literacies for Bilingual and English Language Learners</td>
<td>3</td>
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<td>ED-LLC 505 Applied Linguistics: From Theory to Practice</td>
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<td>ED-LLC 507 Parental Involvement: Building a Community of Bilingual/ESL Learners</td>
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<td>ED-LLC 510 Field Experience in ESL Classrooms</td>
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<td>ED-LLC 531 Advanced Assessment of Learners in the Bilingual/ESL Classroom</td>
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<td>ED-LLC 672 Capstone Proposal</td>
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</table>

This master’s program is for both elementary and secondary teachers P-12. The TESOL program uses primarily the Spanish language for examples but is applicable to all non-English languages. It does not require a student to be bilingual. Completion of the TESOL program does not qualify the candidate for state certification. However, these courses may be used toward certification renewal or endorsement.

To earn TESOL endorsement student must have 4 credits in a world language.

*Courses approved for State of Idaho Bilingual/ESL K-12 endorsement.

Course Offerings

ED-LLC—Literacy, Language, and Culture

ED-LLC 500 THE BILINGUAL/ESL CURRICULUM: CREATING, PLANNING, IMPLEMENTATION (3-0-3)(F/S). For teachers preparing to teach bilingual and/or English language learners. Theory and best practices of planning and creating an effective curriculum for bilingual and ESL classrooms. Participants examine both planned curriculum based upon specific objectives, and generative curriculum based on learners’ needs, experiences and interests. Students will design a model curriculum for a bilingual and/or ESL classroom.

ED-LLC 501 CULTURALLY DIVERSE LEARNERS (3-0-3)(F/S). Through the use of ethnographic tools, students will gain a better understanding of cultural and linguistic issues in their schools, local, and global communities.

ED-LLC 502 METHODS OF TEACHING ENGLISH LANGUAGE LEARNERS (3-0-3)(F/S). Taught in Spanish and English. This course is an in-depth study of teaching English language learners. It is designed for both novice and experienced teachers. Taught in Spanish and English.

ED-LLC 503 APPLIED THEORETICAL FOUNDATIONS OF BILINGUAL EDUCATION/ESL AND MULTICULTURALISM (3-0-3)(F/S). The study and analysis of successful bilingual education, English as a Second Language, and Multicultural program practices. Students research and critique the foundations of Bilingual/ESL program policy and practices (Federal and State Law) that demonstrate the characteristics of successful bilingual, ESL, and multicultural classrooms (i.e., teachers’ ability to articulate pedagogy used in the classroom).

ED-LLC 504 LITERACIES FOR BILINGUAL AND ENGLISH LANGUAGE LEARNERS (3-0-3)(SU). Theoretical foundations and methods of teaching literacy to emergent bilinguals in multiple settings including bilingual (Spanish-English), general education, and English language development classrooms. Participants learn the processes and effective strategies for teaching reading and writing to bilingual and English language learners. Taught in Spanish and English.

ED-LLC 505 APPLIED LINGUISTICS: FROM THEORY TO PRACTICE (3-0-3)(SU). Aids teachers in building a meta-linguistic awareness through an exploration of foundations of language as a system including: phonology, morphology, syntax, semantics, pragmatics, and discourse. Includes an emphasis on teaching implications of linguistics for emergent bilinguals in various educational contexts and understanding the role of linguistics, including socio-linguistics, when considering the ELD standards.

ED-LLC 506 MULTICULTURAL LITERATURE: PROMOTING SOCIAL JUSTICE (3-0-3)(F/S). Students examine multicultural literature by engaging in critical literacy, substantive discussion, reflective writing, visual representation, and dramatic enactment. A main theme throughout this class is how to use the collection of literature as a tool for curriculum transformation, to promote social justice and encourage empowerment. Students will learn to take the words from the page to inform and transform their worlds.

ED-LLC 507 PARENTAL INVOLVEMENT: BUILDING A COMMUNITY OF BILINGUAL/ESL LEARNERS (2-0-2)(F/S/SU). Participants critically examine why school-community partnerships are particularly valuable in multicultural settings. They examine texts of parental involvement in schooling and actual practices and address questions of power relations, politics of exclusion and the privilege of race, gender, class, and culture. Students explore practices that respect diversity and honor all parents, students, community members, and teachers.

ED-LLC 508 ADVANCED THEORIES OF SECOND LANGUAGE ACQUISITION (3-0-3)(F/S/SU). Psycholinguistic processes and strategies by which readers and writers construct and reconstruct the message of a text. Application of theoretical conclusions to the teaching practices. Exploration and discussion of major theoretical arguments from current theorists and the pedagogical implications of second language acquisition research that focuses on language, literacy, and learning. Participants will apply knowledge to teaching primary and secondary children the English language.

ED-LLC 509 FIELD EXPERIENCE IN BILINGUAL CLASSROOMS (0-0-3)(F/S). Participants gain experience planning, instructing and assessing learners in a bilingual setting and document evidence of their impact on learners. Includes some observation and collaboration with mentor teachers and/or university supervisor. Fifty clock hours per credit minimum.

ED-LLC 510 FIELD EXPERIENCE IN ESL CLASSROOMS (0-0-3)(F/S). Participants gain experience planning, instructing and assessing learners in an educational setting with ELLs and document evidence of their impact on learners. Includes some observation and collaboration with colleagues, mentor teachers and/or university supervisor. Fifty clock hours per credit minimum.

of current trends in education and creating an awareness of how teachers can enhance their advocacy for students, parents and stakeholders.


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

**ED-LLC 540 FOUNDATIONS OF LITERACY INSTRUCTION (3-0-3)(F/S).** Studies the theoretical constructs of literacy processes, the psychological, pedagogical and historical foundations of literacy instruction, and the creation and improvement of literacy education programs in elementary and secondary schools.

**ED-LLC 541 ASSESSMENT AND INSTRUCTION: READING DIFFICULTIES K-12 (3-0-3)(S/SU).** Diagnostic, standardized, and informal (performance-based) assessment procedures will be studied, evaluated, learned, and practiced. Instructional strategies for elementary and secondary students with reading difficulties will be learned and linked to assessment procedures. PREREQ: Permission to waive prerequisites may be given to all students not enrolled in professional literature on best teaching practices. PREREQ: Admission to graduate program.

**ED-LLC 542 BEST PRACTICES IN LITERACY IMPROVEMENT (2-1-3)(F).** Diagnostic instructional and assessment procedures will be used with 1-3 elementary or secondary students in the Boise State Tutoring Program in Reading. Each participant prepares a professional quality client report. One meeting per week with the client outside of class time is required. PREREQ: ED-LLC 541 or the equivalent.

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

**ED-LLC 544 CONTENT LITERACY IN SECONDARY SCHOOL (3-0-3)(F/S).** Emphasis on using instructional materials in the various content subjects and developing instructional skills to meet the reading, writing, and studying needs of all learners in today's diverse society. Students will examine professional literature on best teaching practices. PREREQ: Admission to Graduate Secondary Teacher Certification and ED-ESP 550. Instructor permission to waive prerequisites may be given to all students not enrolled in the secondary education certification program (Block I-III). COREQ: ED-CIFS 561 and the content methods course for the declared major.

**ED-LLC 545 WRITING PROCESSES, INSTRUCTION, AND ASSESSMENT: K-8 (3-0-3)(S).** Focuses on ways to teach, teach, assess, and motivate a diverse range of student writers. Emphasizes the writing process and writing in a variety of genres, including digital media.

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

**ED-LLC 547 ADVANCED YOUNG ADULT LITERATURE (3-0-3)(S).** Offers an update in diverse young adult literature, as well as research, critical analysis and instructional strategies for a variety of settings. Intended for teachers, librarians, media generalists, and others working with young adults.

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

**ED-LLC 549 IDAHO COMPREHENSIVE LITERACY COURSE (3-0-3)(F/S/SU).** Research-based best reading practices focused on language structure and literacy instruction, comprehension research, material selection, and assessment and intervention strategies. Contemporary and historical perspectives will be examined.

**ED-LLC 550 ADVANCED CONTENT AREA LITERACY (3-0-3)(F/S).** Examines newest research in content literacy and explores in greater depth fundamental topics. Includes vocabulary, comprehension, writing to learn, study strategies, and coaching of content teachers. For students seeking Idaho State Literacy Endorsement. Undergraduate content area literacy course recommended.

**ED-LLC 551 LITERACY LEADERSHIP (3-0-3)(S).** Focuses on the roles of literacy leaders, leading and mentoring teachers in effective literacy practices, designing effective school-wide professional development, advocating for literacy both in school contexts and community settings, promoting change for 21st century learning, and participating in professional organizations and conferences.

**ED-LLC 552 TECHNOLOGY AND LITERACY (3-0-3)(SU).** Examines appropriate and effective uses of technology in literacy development. Explores impact of technology on definition of literacy. New literacies are defined and explored.

**ED-LLC 554 REVIEW OF LITERACY PROCESSES AND PRACTICES (3-0-3)(F/S).** Examines the interrelationship of the literacy processes through the examination of epistemological, philosophical, theoretical, and pedagogical literacy models.

**ED-LLC 555 DIRECTING AND SUPERVISING READING PROGRAMS (3-0-3)(F/S).** The literacy specialist's leadership role in the planning and delivery of reading instruction from goal setting, program planning, decision-making, problem solving, program supervision, and program evaluation for students from varied cultural and linguistic backgrounds will be examined. Students serve as mentors for undergraduates and graduate students in tutoring children with literacy challenges.

**ED-LLC 556 APPLIED RESEARCH IN LARGE-SCALE LITERACY ASSESSMENT (3-0-3)(F).** Explores the research base for large-scale assessment as it relates to literacy assessment; examines current approaches to large-scale assessment, assessment design, research methodologies and specific assessments such as PIRLS, PISA, NAEP, state level tests, etc. with emphasis given to how these data are being interpreted and used for social and political purposes.

**ED-LLC 557 RESEARCH BASE FOR CONTEMPORARY LITERACY CURRICULUMS (3-0-3)(F/S).** Investigates contemporary issues related to research on literacy in terms of theoretical frameworks, research methods, and implications for curriculum, instruction, and assessment. Applies relevant theories and models to the design and development of school curricula in the area of literacy.

**ED-LLC 558 ADVANCED WRITING PROCESSES AND ASSESSMENT (3-0-3)(F/S).** Examines theoretical and praxis knowledge about cognitive, physical, social, and affective processes of writing and their interactions with writing development. Provides opportunities to delve into issues of struggling writers and second language learners. PREREQ: ED-LLC 345 or ED-LLC 545 or PERM/INST.

**ED-LLC 559 LANGUAGE, LITERACY AND CULTURE (3-0-3)(F).** Introduces students to the ways in which social structuring, cultural assumptions, and language use bear on public policy formation and interactions in such areas as the classroom, professions, government, business and industry, and social service agencies.

**ED-LLC 560 INTERPRETING RESEARCH IN LITERACY (3-0-3)(F/S).** Examines literacy research involving the generation and refinement of models, theories, and methodologies. Strategies in interpreting and analyzing the professional literature are also emphasized.

**ED-LLC 672 CAPSTONE PROPOSAL (1-0-1)(F).** Students create a proposal, including a preliminary literature review, for the capstone project. (Pass/Fail).
Materials Science and Engineering Programs

College of Engineering

Ruch Engineering Building, Room 338
(208) 426-5600 (phone)
msegrad@boisestate.edu (email)

Graduate Degrees Offered

• Doctor of Philosophy in Materials Science and Engineering
• Master of Engineering in Materials Science and Engineering
• Master of Science in Materials Science and Engineering
• Graduate Certificate in Computational Materials Science and Engineering
• Graduate Certificate in Foundations in Materials Science and Engineering
• Graduate Certificate in Nanomaterials Science and Engineering

Participating Departments

• Biological Sciences
• Chemistry and Biochemistry
• Engineering
• Physics

General Information

Established in 2004, the Micron School of Materials Science and Engineering houses three distinct interdisciplinary graduate degrees: Doctor of Philosophy (PhD), Master of Science (MS) and Master of Engineering (MEng) and three graduate certificate programs. With an interdisciplinary base of faculty from backgrounds including, but not limited to: Materials Science and Engineering, Mechanical and Biomedical Engineering, Electrical and Computer Engineering, Civil Engineering, Physics, Chemistry, and Biology, students enrolled in the graduate programs benefit from their diversity of background and the interdisciplinary nature of the field. Governance of the graduate and certificate programs is based upon participating faculty from constituent departments and overseen by the School.

Materials Science and Engineering is a highly interdisciplinary field that rests between basic science and engineering. Because of this overlap, graduates develop collaborative skills that transcend disciplinary boundaries. They also develop technical skills and fundamental knowledge that make them highly attractive to the regional, national, and international workforce.

DOCTOR OF PHILOSOPHY IN MATERIALS SCIENCE AND ENGINEERING

Graduate Program Coordinator: Scott Phillips
Ruch Engineering Building, Room 338
(208) 426-5600 (phone)
msegrad@boisestate.edu (email)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree or master's degree in a relevant field from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree or master's degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A statement of purpose outlining educational and professional background, description of research interest, motivation, aptitudes, professional interests and career goals.
3. A current résumé.
4. Official Graduate Record Examinations (GRE) General Test scores.
5. TOEFL or IELTS scores (for international students).
6. Three letters of recommendation.

Degree Requirements

A minimum of 66 credits are required for the PhD program. MSE 601 will be taken during the first year a student is admitted to the MSE graduate program. All electives must be graduate courses in Materials Science and Engineering (MSE) or approved graduate or upper level undergraduate courses in other disciplines. All core coursework should be completed within the first 18-24 months of study. Once all Required Core courses are successfully completed (i.e., each course with a B or better, and a combined GPA of 3.40), the comprehensive exam, MSE 691, can be taken. The comprehensive exam represents a significant milestone and assessment tool for monitoring how well information from various sources has been assimilated and integrated into a comprehensive knowledge of materials science and engineering. Students are expected to attend the MSE Seminar every semester, which provides an opportunity to enhance their knowledge in materials science and engineering and related fields.
MASTER OF ENGINEERING IN MATERIALS
SCIENCE AND ENGINEERING

Graduate Program Coordinator: Scott Phillips
Ruch Engineering Building, Room 338
(208) 426-5600 (phone)
msegrad@boisestate.edu (email)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree or master’s degree in a relevant field from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree or master’s degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. A statement of purpose outlining educational and professional background, professional interests, and motivation for graduate study including career goals.
3. A current résumé.
4. Official Graduate Record Examinations (GRE) General Test scores.
5. Three letters of recommendation.

Degree Requirements
Students will complete at least 30 graduate credits distributed as shown in the degree requirements table. Up to 3 credits of MSE 696 Directed Research may be applied to meet the degree requirements. The culminating activity for the MEEng degree is a project course (MSE 591). This project is completed during the final spring semester of enrollment in the program. All Required Core courses must be completed with a B or better.

Master of Engineering in
Materials Science and Engineering

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<td>Required Core Courses</td>
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<tr>
<td>MSE 605 Crystallography and Crystal Chemistry</td>
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<tr>
<td>MSE 608 Solid State Thermodynamics</td>
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<tr>
<td>MSE 618 Phase Transformations and Kinetics</td>
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<tr>
<td>Required Core Emphasis Course</td>
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<tr>
<td>Choose at least three credits from the following, or alternative Core Emphasis Course(s) approved by the graduate program coordinator:</td>
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<tr>
<td>MSE 510 Electrical, Optical, and Dielectric Materials</td>
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<td>MSE 512 Mechanical Behavior of Materials</td>
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<tr>
<td>*PHYS 515 Solid State Physics</td>
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<td>Required Characterization Course</td>
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<td>Choose at least three credits from the following, or alternative Characterization Course(s) approved by the graduate program coordinator:</td>
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<tr>
<td>CHEM 522 Spectroscopy</td>
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<tr>
<td>CHEM 540 Spectrometric Identification</td>
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<tr>
<td>CHEM 560 Introduction to NMR Spectroscopy</td>
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<td>MSE 521 Introduction to Electron Microscopy</td>
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<td>MSE 522 Advanced Transmission Electron Microscopy</td>
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<td>MSE 525 Surface Analysis</td>
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<td>*PHYS 523 Physical Methods of Materials Characterization</td>
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<tr>
<td>ECE 540 Intro to Integrated Circuit Processing</td>
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<td>ECE 540L Intro to Integrated Circuit Processing Lab</td>
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<tr>
<td>ECE 541 Advanced Topics in Silicon Technology</td>
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<tr>
<td>ECE 542 Photolithography</td>
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<td>ECE 543 Introduction to MEMS</td>
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<td>MSE 540 Advanced Processing</td>
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<td>MSE 542 Ceramic Processing</td>
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<td>MSE 545 Nanoscale Processing</td>
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<td>Required Experiential Learning Courses</td>
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<tr>
<td>At least two credits must be filled by MSE 651 or MSE 650. Remaining credits can be fulfilled by one or more of the following:</td>
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<td>GCCLL 514 Field Experience in College Teaching</td>
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<td>GCCLL 512 Internship in College Teaching</td>
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<td>GCCLL 513 Practicum in College Teaching</td>
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<td>MSE 590 Practicum/Internship</td>
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<tr>
<td>MSE 650 Teaching Experience</td>
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<td>MSE 651 Graduate Teaching Assistant Experience</td>
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*Recommended Course

Other Graduate Courses

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<tr>
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<th>Credits</th>
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<tr>
<td>MSE 601 Graduate Student Orientation</td>
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<td>MSE 691 Doctoral Comprehensive Examination</td>
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<td>MSE 693 Dissertation</td>
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<tr>
<td>Total</td>
<td>66</td>
</tr>
</tbody>
</table>

*Recommended Course
MATERIALS SCIENCE AND ENGINEERING

Required Processing Course
Choose at least three credits from the following, or alternative Processing Course(s) approved by the graduate program coordinator:
- MSE 540 Advanced Processing
- MSE 542 Ceramic Processing
- MSE 545 Nanoscale Processing

Other Graduate Courses 6
Culminating Activity
MSE 591 Project 3
Total 30

*Recommended Course

MASTER OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING

Graduate Program Coordinator: Scott Phillips
Ruch Engineering Building, Room 338
(208) 426-5600 (phone)
msegrad@boisestate.edu (email)

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4. Official Graduate Record Examinations (GRE) General Test scores.
5. Three letters of recommendation.

Degree Requirements

Students will complete at least 30 graduate credits distributed as shown in the degree requirements table. All Required Core courses will be successfully completed with a B or better. A thesis is characterized by a clearly stated proposition or hypothesis that is investigated using analysis and synthesis of data or other scholarly evidence. The thesis includes a discussion of the relevant literature and demonstrates the ability of the student to independently and successfully address a significant intellectual problem. The thesis constitutes an original contribution to knowledge in materials science and engineering, and will be successfully defended at a final oral examination. All work directly related to the thesis is represented by 9 credits or more of MSE 593.

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<td></td>
</tr>
<tr>
<td>Required Processing Course</td>
<td></td>
</tr>
<tr>
<td>Choose at least three credits from the following, or alternative Processing Course(s) approved by the graduate program coordinator:</td>
<td></td>
</tr>
<tr>
<td>MSE 540 Advanced Processing</td>
<td></td>
</tr>
<tr>
<td>MSE 542 Ceramic Processing</td>
<td></td>
</tr>
<tr>
<td>MSE 545 Nanoscale Processing</td>
<td></td>
</tr>
<tr>
<td>Culminating Activity</td>
<td></td>
</tr>
<tr>
<td>CHEM 593 Thesis or MSE 593 Thesis or PHYS 593 Thesis</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

*Recommended Course

Special Rule on Transfer Credit

The normal transfer credit policies of the Graduate College hold except that up to 15 transfer credits earned in combination at the University of Idaho and Idaho State University may be applied to either degree program (MS MSE or MEng MSE) with the approval of the supervisory committee.
GRADUATE CERTIFICATE IN COMPUTATIONAL MATERIALS SCIENCE AND ENGINEERING

Graduate Program Coordinator: Scott Phillips
Ruch Engineering Building, Room 338
(208) 426-5600 (phone)
msegrad@boisestate.edu (email)

General Information
This certificate program provides an interdisciplinary opportunity to develop and apply computational tools the field of materials science and engineering. Opportunities to develop first-principles techniques, molecular simulation, supercomputing, big data analysis, and scientific algorithm development will position certificate holders to contribute to modern materials design as computational scientists.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree in a STEM field from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of interest briefly summarizing background and motivation for enrolling.
3. A current résumé.
4. The completion of an introduction to Materials Science and Engineering course prior to enrollment in the certificate program.

Certificate Requirements

<table>
<thead>
<tr>
<th>Graduate Certificate in Computational Materials Science and Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
</tr>
<tr>
<td>Select 9 credits from the following options. 6 credits must be in MSE courses: MSE 563 Materials Modeling</td>
</tr>
<tr>
<td>MSE 564 Computational Materials Science</td>
</tr>
<tr>
<td>ME 570 Finite Element Methods</td>
</tr>
<tr>
<td>ME 571 Parallel Scientific Computing</td>
</tr>
<tr>
<td>Or other Boise State graduate courses related to computational materials science or modeling as approved by the graduate program coordinator.</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

Special Relationships with Other Programs
Credits earned in this certificate program may be counted toward the MEng, MS, or PhD degree programs in Materials Science and Engineering.

GRADUATE CERTIFICATE IN FOUNDATIONS IN MATERIALS SCIENCE AND ENGINEERING

Graduate Program Coordinator: Scott Phillips
Ruch Engineering Building, Room 338
(208) 426-5600 (phone)
msegrad@boisestate.edu (email)

General Information
The curriculum in this certificate is designed for individuals with a baccalaureate degree in materials science and engineering, chemical engineering, mechanical engineering, nuclear engineering, chemistry, physics or other related field. It is designed to provide the foundational knowledge of Materials Science and Engineering and is required knowledge for any advanced degree (M. Eng., MS or PhD) in Materials Science and Engineering. Each course is taught annually.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree in a STEM field from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of interest briefly summarizing background and motivation for enrolling.
3. A current résumé.
4. The completion of an introduction to Materials Science and Engineering course prior to enrollment in the certificate program.

Certificate Requirements

<table>
<thead>
<tr>
<th>Graduate Certificate in Foundations in Materials Science and Engineering</th>
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</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
</tr>
<tr>
<td>MSE 605 Crystallography and Crystal Chemistry</td>
</tr>
<tr>
<td>MSE 608 Solid State Thermodynamics</td>
</tr>
<tr>
<td>MSE 618 Phase Transformations and Kinetics</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

Special Relationships with Other Programs
Credits earned in this certificate program may be counted toward the MEng, MS, or PhD degree programs in Materials Science and Engineering.
GRADUATE CERTIFICATE IN NANO MATERIALS SCIENCE AND ENGINEERING

Graduate Program Coordinator: Scott Phillips
Ruch Engineering Building, Room 338
(208) 426-5600 (phone)
msegrad@boisestate.edu (email)

General Information

This certificate provides current information of high relevance to those interested in the science and engineering of nano-dimensional materials. The certificate courses cover approaches to nanoscale fabrication, key materials properties at the nanoscale, applications of nanoscale materials, as well as computational approaches to nanoscale materials science and engineering. The certificate program covers the breadth of nanoscale materials science and engineering, while each course provides depth within key topic areas.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree in a STEM field from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

• Official transcripts from all colleges attended.
• A letter of interest briefly summarizing background and motivation for enrolling.
• A current résumé.
• The completion of an introduction to Materials Science and Engineering course prior to enrollment in the certificate program.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MSE 545 Nanoscale Processing</td>
<td>3</td>
</tr>
<tr>
<td>MSE 527 Nanoscale Transport</td>
<td>3</td>
</tr>
<tr>
<td>MSE 563 Materials Modeling</td>
<td>3</td>
</tr>
<tr>
<td>or other Boise State graduate courses related to nanotechnology as approved by the graduate program coordinator.</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>9</td>
</tr>
</tbody>
</table>

Special Relationships with Other Programs

Credits earned in this certificate program may be counted toward the MEng, MS, or PhD degree programs in Materials Science and Engineering.

Course Offerings

MSE—Materials Science And Engineering

MSE 510 ELECTRICAL, OPTICAL, AND DIELECTRIC MATERIALS
(3-0-3)(F/S). Physical principles underlying the electrical, dielectric and optical properties of modern solids. Crystalline and energy band structure of materials, thermal properties and electrical conduction in semiconductors and metals, dielectric response and optical behavior of solids are covered.

MSE 511 SEMICONDUCTOR MATERIALS
(3-0-3)(F/S). Examination of the physical properties of semiconductors including electronic structure, free carrier statistics, optical properties, crystallography, and defects. Study of thermodynamic properties as related to lattice vibrations and diffusion.

MSE 512 MECHANICAL BEHAVIOR OF MATERIALS
(3-0-3)(F/S). Study of deformation and fracture in engineering materials, including elastic and plastic deformations; dislocation theory; alloy hardening and creep deformation; fracture mechanisms; linear elastic fracture mechanics; toughening of metals, ceramics, and composites; environmentally assisted failure.

MSE 513 MECHANICAL BEHAVIOR OF MATERIALS II
(3-0-3)(F/S). Topics include fracture in different materials classes, time-dependent deformation behavior, mechanical behavior of polymers and other soft materials, deformation of natural materials and cellular solids, or mechanical behavior at the nanoscale.

MSE 514 MAGNETISM AND MAGNETIC MATERIALS

MSE 519 INTERFACIAL KINETICS AND TRANSPORT PROCESSES
(3-0-3)(F/S). Reaction kinetics and mass transport phenomena at materials interfaces important in materials processing and performance, including gas-solid, liquid-solid, and electrochemical processes. Emphasis on understanding fundamental mechanisms that control rates of reactions and mass transport. PREREQ: MSE 608.

MSE 521 INTRODUCTION TO ELECTRON MICROSCOPY

MSE 522 ADVANCED TRANSMISSION ELECTRON MICROSCOPY
(1-3-2)(F/S). In-depth understanding of the transmission electron microscope, electron diffraction, and imaging and analytical techniques. Students are required to have an approved project. PREREQ: PERM/INST.

MSE 523 INTRODUCTION TO X-RAY DIFFRACTION
(1-2-1)(F/S). A practical introduction to the apparatus and technique of x-ray diffraction for crystalline materials in the form of bulk materials, powders, or films. Students are required to have an approved project. PREREQ: PERM/INST.

MSE 525 SURFACE ANALYSIS
(3-0-3)(F/S). Fundamentals and techniques associated with a range of surface analysis methods including LEED/RHEED, SPM, SIMS, XPS, Auger, RBS or NAA.

MSE 527 POINT DEFECTS
(3-0-3)(F/S). Point defects in materials, particularly focused on defect chemistry, notation, ionic/electronic disorder, mass/charge balance, and the influence of point defects on materials properties.

MSE 528 INTERFACES AND DISLOCATION BEHAVIOR
(3-0-3)(F/S). Structure of interfaces as groups of line defects including dislocations, disconnections, and disclinations; application of general concepts to special situations including epitaxial interfaces, twin boundaries and phase transformations.
MSE 540 ADVANCED PROCESSING (3-0-3)(F/S). Science and engineering of processes used in the manufacture of advanced ceramics, metals, polymers and composites.


MSE 545 NANOSCALE PROCESSING (3-0-3)(F/S). Fundamental and applied aspects of current approaches to fabrication of nanoscale (<100nm) features, materials, and devices including chemical, physical, and biological methodologies.

MSE 550 NANOSCALE TRANSPORT (3-0-3)(F/S). Fundamental and applied treatment of photons, electrons, and phonons as energy carriers from the nanoscale (< 100 nm) to the macroscale. Topics include energy transport in the forms of waves and particles, carrier scattering processes, transport in low-dimensional systems, and experimental methods of transport measurements. Particular attention will be given to 2-dimensional materials and devices. PREREQ: PHYS 309 or PERM/INST.


MSE 562 ENERGY MATERIALS (3-0-3)(F/S). Role of materials in sustainable energy including batteries and fuel cells, solar cells and solar fuels, thermoelectric, and wind energy with focus on fundamental principles and applications of functional energy materials. Includes discussion of energy and environmental issues and policies.

MSE 563 MATERIALS MODELING (3-0-3)(F/S). Theory and application of computational techniques for modeling materials across length scales (nanometers to centimeters) and time scales (femtoseconds to minutes). Emphasis on stochastic techniques including molecular dynamics, Monte Carlo, and kinetic Monte Carlo simulations.

MSE 564 COMPUTATIONAL MATERIALS SCIENCE (3-0-3)(F/S). Theory and application of computational modeling and simulation to fundamentally understand structure-property-performance relationships in materials. Different length- and time-scale modeling techniques (e.g., first-principles quantum simulation, atomistic, mesoscale and continuum modeling), scientific programming, and visualization tools.


MSE 570 PHYSICAL METALLURGY (3-0-3)(F/S). Structure-property relationships with a focus on the formation of microstructures of alloys and the resulting mechanical properties. Fundamentals of annealing, spinodal decomposition, nucleation, growth, and coarsening. Role of defects in the formation of microstructures.

MSE 571 PHYSICAL CERAMICS AND GLASSES (3-0-3)(F/S). Structure-property and processing-property relations in crystalline and amorphous ceramic materials at the atomistic and microscopic levels.

MSE 573 PHYSICAL PROPERTIES OF POLYMERS (3-0-3)(F/S). Physical properties of polymers with focus on their underlying physics and chemistry of chain structures, solution properties, glass transition, crystalline state, rubber elasticity, and viscoelasticity. Contemporary topics such as polymer composites and polymers for electronics, energy, and biomedical applications are also introduced.

MSE 574 SOFT MATERIALS (3-0-3)(F/S). Connects the principles of bonding and structure in polymers with the properties of soft materials. Inherent in these relationships are property perturbations caused by processing, as well as chemical and physical changes to soft materials that are induced by the environment in which the material is used.

MSE 577 (BIOL 577)(MF 577) BIOMATERIALS (3-0-3)(F/S). Theory of biomaterials science. Medical and biological materials and their applications. Selection, properties, characterization, design and testing of materials used by or in living systems. May be taken for BIOL, ME or MSE credit, but only from one department. PREREQ: MSE 245 or CHEM 112.

MSE 578 SCIENTIFIC COMMUNICATION IN MATERIALS SCIENCE AND ENGINEERING (1-0-1)(F/S). Communication of research findings. Organization and composition of scientific research papers. PREREQ: PERM/INST.

MSE 588 BIOCOMPATIBILITY AND ENVIRONMENTAL DEGRADATION (3-0-3)(F/S). Theory of environmental degradation of metals, ceramics, polymers and biomaterials. The scientific principles of materials degradation with emphasis on material interactions within a living organism.

MSE 601 GRADUATE STUDENT ORIENTATION (1-0-1)(F/S). Orientation to the graduate student experience, requirements for the doctoral degree, and research practices including ethics, safety, research methods, and intellectual property. (Pass/Fail.)

MSE 602 SURVEY OF MATERIALS SCIENCE (3-0-3)(F/S). Application of the principles of chemistry and physics to the engineering properties of materials. Development of an in-depth understanding of the relationship between structure, properties, processing, and performance for all classes of materials.

MSE 605 CRYSTALLOGRAPHY AND CRYSTAL CHEMISTRY (4-0-4)(F/S). Bonding, atomic arrangements and crystal structures of metals, ceramics, electronic materials and polymers; electronic structure of solids; physical properties of solids; defects in solids; relationship between processing, microstructure and properties of materials.

MSE 608 SOLID STATE THERMODYNAMICS (4-0-4)(F/S). The laws of thermodynamics are applied to multicomponent, multiphase reacting systems, and other thermodynamic systems. These concepts are used to discuss and mathematically compute equilibrium phase diagrams. The energy effects due to the geometry of solid surfaces are discussed in regards to capillarity effects. Classical thermodynamics is related to atom-level distributions using statistical thermodynamics and the partition function. Electrochemical thermodynamics is discussed in the context of two-phase interfacial reactions.

MSE 618 PHASE TRANSFORMATIONS AND KINETICS (4-0-4)(F/S). Kinetics of phase transformations, nucleation, crystallization, decomposition, chemical reactions, and atomic and molecular diffusion. Surface and interface phenomenon, nanoparticle-matrix interactions, sintering, grain growth, recovery and recrystallization.

MSE 650 TEACHING EXPERIENCE (3-0-3)(F/S). Under the guidance of a faculty member, Doctoral candidates develop and teach an undergraduate course in Materials Science and Engineering. PREREQ: PERM/INST.

MSE 651 GRADUATE TEACHING ASSISTANT EXPERIENCE (1-6-2)(F/S). Support faculty member through providing teaching assistance including but not limited to holding office hours, teaching sections, and overseeing projects. Content includes basic pedagogy and teaching skills. May be repeated for credit. (Pass/Fail.) PREREQ: PERM/INST.
Graduate Assistantships
Students interested in applying for a graduate teaching or research assistantship should contact the graduate program coordinator for further information.

Degree Requirements
The Master of Science in Mathematics degree requires completion of MATH 515 Real and Linear Analysis, two courses in one of three areas of emphasis, a prescribed number of additional graduate courses, and a culminating activity that may be a comprehensive examination, a project, or a thesis. All courses must be approved for application to the degree requirements by the supervisory committee working within constraints developed by the Mathematics Graduate Committee.

Graduate Degrees Offered
- Master of Science in Mathematics
- Master of Science in Mathematics Education

Interdisciplinary Participation
- Doctor of Philosophy in Computing

MASTER OF SCIENCE IN MATHEMATICS
Program Coordinator: Jens Harlander
Mathematics Building, Room 236
(208) 426-3312 (phone)
jensharlander@boisestate.edu (email)

General Information
The Master of Science in Mathematics degree provides a solid foundation in the theoretical and applied aspects of mathematics and the opportunity for concentration in an area of special interest. Students complete a required core course in analysis and choose an area of emphasis that reflects faculty expertise. The choice of culminating activity depends on student goals and may be a comprehensive examination, a project, or a thesis.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree in mathematics or a closely related field involving substantial coursework in mathematics from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. A personal statement outlining career objectives, field of interest, and if the applicant would like to be considered for a graduate assistantship.
3. A current résumé.
4. Official Graduate Record Examinations (GRE) General Test scores.
5. TOEFL scores (if native language is not English). Applicants may be interviewed if applying for a graduate teaching assistantship.
6. Three letters of recommendation.

Graduate Faculty: Babinkostova, Brill, Bullock, Calhoun, Cavey, Champion, Clemens, Coskey, Harlander, Holmes, Kaiser, Kinzel, Ko, Lee, Mead, Mukherjee, Qu, Scheepers, Smith, Teitler, Wang, Wright, Zubik-Kowal

<table>
<thead>
<tr>
<th>Master of Science in Mathematics</th>
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<tbody>
<tr>
<td>Course Number and Title</td>
</tr>
<tr>
<td>Credits</td>
</tr>
<tr>
<td>Required Core Graduate Mathematics Course</td>
</tr>
<tr>
<td>MATH 515 Real and Linear Analysis</td>
</tr>
<tr>
<td>One of the following areas of emphasis Applied Mathematics</td>
</tr>
<tr>
<td>MATH 537 Principles of Applied Mathematics</td>
</tr>
<tr>
<td>At least one of the following:</td>
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<tr>
<td>MATH 566 Numerical Methods II</td>
</tr>
<tr>
<td>MATH 567 Numerical Methods for Differential Equations</td>
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<tr>
<td>Pure Mathematics</td>
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<tr>
<td>At least two of the following:</td>
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<tr>
<td>MATH 506 Advanced Algebra</td>
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<tr>
<td>MATH 507 Advanced Number Theory</td>
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<tr>
<td>MATH 509 Symmetric Key Cryptology</td>
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<tr>
<td>MATH 512 Advanced Topology</td>
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<tr>
<td>MATH 522 Advanced Set Theory</td>
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<tr>
<td>Statistics</td>
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<tr>
<td>MATH 562 Probability and Statistics</td>
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<tr>
<td>At least one of the following:</td>
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<tr>
<td>MATH 572 Computational Statistics</td>
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<tr>
<td>MATH 573 Time Series Analysis</td>
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<tr>
<td>MATH 574 Linear Models</td>
</tr>
</tbody>
</table>

Culminating Activity
Additional graduate courses and a culminating activity chosen from one of the following possibilities:
1. Comprehensive Examination
   - Seven courses totaling at least 21 credits
   - MATH 690 Master's Comprehensive Examination (1 cr)
2. Project
   - Five courses totaling at least 15 credits
   - MATH 590 Practicum/Internship (3 cr)
   - MATH 591 Project (3 cr)
3. Thesis
   - Five courses totaling at least 15 credits
   - MATH 593 Thesis (6 cr)

Total | 30-31
MASTER OF SCIENCE IN MATHEMATICS EDUCATION

Program Coordinator: Joe Champion
Mathematics Building, Room 233D
(208) 426-3497 (phone)
joechampion@boisestate.edu (email)

General Information
The Master of Science in Mathematics Education program is designed for educators seeking to broaden their knowledge of mathematics, teaching and learning, research, and curriculum. Courses include integrated strands such as technology, assessment, and student thinking so that learning is contextualized and relevant to classroom teachers.

Candidates have varied experience and interests, including high school teachers, middle levels mathematics teachers, community college or university mathematics instructors, and prospective mathematics teachers with substantial undergraduate mathematics preparation. Persons seeking secondary Idaho teaching certification should consult with the graduate program coordinator to discuss options for a program leading to certification.

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree in mathematics secondary education, mathematics, elementary education or a closely related field from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
3. Three letters of recommendation from people who know the applicant's academic and/or professional work.

Degree Requirements
General MS requirements as stated in Boise State University's Graduate Catalog apply. Any transfer credits, whether from another university or from another graduate program at Boise State University, must be approved by the program faculty. A 400/500 cross-listed course cannot apply towards the degree if already taken for an undergraduate degree.

The Master of Science in Mathematics Education requires coursework (at least 27 credits) and a culminating experience consisting of either a thesis or a project (3-6 credits).

### Course Offerings

**MATH—Mathematics**

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

Graduate offerings in mathematics are limited to those courses for which there is sufficient student demand as determined by the Department of Mathematics.

**MATH 490G MATHEMATICS IN SECONDARY SCHOOLS (3-0-3)(F).**

Objectives, content, and methods of secondary school mathematics programs. PREREQ: MATH 370 and six hours of mathematics completed at or above the 300-level or PERM/INST.

**MATH 501 FOUNDATIONS OF MATHEMATICS (3-0-3)(SU).**

The language and methods of reasoning used throughout mathematics, and selected topics in discrete mathematics. PREREQ: MATH 143.
MATH 502 LOGIC AND SET THEORY (3-0-3)(S). Structured as three five-week components: formal logic, set theory, and topics to be determined by the instructor. The logic component includes formalization of language and proofs, the completeness theorem, and the Lowenheim-Skolem theorem. The set theory component includes ordinals, ordinals, the transfinite recursion theorem, and the Axiom of Choice and some of its equivalents. PREREQ: MATH 314.

MATH 503 LINEAR ALGEBRA (3-0-3)(F). Concepts of linear algebra from a theoretical perspective. Topics include vector spaces and linear maps, dual vector spaces and quotient spaces, eigenvalues and eigenvectors, diagonalization, inner product spaces, adjoint transformations, orthogonal and unitary transformations, Jordan normal form. PREREQ: MATH 301.

MATH 505 ABSTRACT ALGEBRA (3-0-3)(F)(Odd years). Topics in group theory, ring theory and field theory with emphasis on finite and solvable groups, polynomials and factorization, extensions of fields. PREREQ: MATH 301 and MATH 305.

MATH 506 ADVANCED ALGEBRA (3-0-3)(S)(Even years). The study of algebraic topics taken from mappings, semi-groups, groups, Sylow Theorems, group actions, rings, ascending and descending chain conditions, polynomial rings, fields, field extensions, Galois theory, Modules, Tensor products. PREREQ: MATH 405 or MATH 505.

MATH 507 ADVANCED NUMBER THEORY (3-0-3)(F)(Even years). Arithmetic functions, Mobius Inversion, Fundamental algorithm, Prime numbers, Factoring, quantification of number theoretic results. PREREQ: MATH 406 or PERM/INST.

MATH 508 ADVANCED PUBLIC KEY CRYPTOLOGY (3-0-3)(F). Galois Fields, Vector Spaces and Lattices. Group based and lattice based asymmetric cryptopographic primitives. Security models for public key cryptosystems. The study of security foundations of current public key cryptosystems. PREREQ: CS 567 or MATH 305 or MATH 307 or MATH 308.

MATH 509 SYMMETRIC KEY CRYPTOLOGY (3-0-3)(S). Combinatorics, Galois Fields and Extensions, and Vector Spaces. One-way functions, Hash functions, and pseudo-random number generators, Data Encryption Standard, Rijndael and other symmetric key cryptosystems and their cryptanalysis. PREREQ: CS 567 or MATH 305 or MATH 307 or MATH 308.

MATH 511 INTRODUCTION TO TOPOLOGY (3-0-3)(F)(Even years). Sets, metric and topological spaces, product and quotient topology, continuous mappings, connectedness and compactness, homeomorphisms, fundamental group, covering spaces. PREREQ: MATH 314.

MATH 512 ADVANCED TOPOLOGY (3-0-3)(S)(Odd years). Introduction into concepts of algebraic and geometric topology: homotopy and homology groups, cohomology, manifolds, duality theorems, special topics. PREREQ: MATH 411 or MATH 511 or PERM/INST.

MATH 514 ADVANCED CALCULUS (4-0-4)(S). Introduction to fundamental elements of Analysis on Euclidean spaces including the basic differential and integral calculus. Topics include: Infinite series, sequences and series of function, uniform convergences, theory of integration, implicit function theorem and applications. PREREQ: MATH 275, MATH 301, and MATH 314.


MATH 522 ADVANCED SET THEORY (3-0-3)(F). Topics in modern set theory may be drawn from forcing, choiceless set theory, infinitary combinatorics, set-theoretic topology, descriptive set theory, inner model theory, and alternative set theories. PREREQ: MATH 402 or MATH 502 or PERM/INST.

MATH 526 COMPLEX VARIABLES (3-0-3)(S)(Odd years). Complex numbers, functions of a complex variable, analytic functions, infinite series, infinite products, integration, proofs and applications of basic results of complex analysis. Topics include the Cauchy integral formulas, the residue theorem, the Riemann mapping theorem and conformal mapping. PREREQ: MATH 275.

MATH 527 INTRODUCTION TO APPLIED MATHEMATICS FOR SCIENTISTS AND ENGINEERS (3-0-3)(F). Introduction to applied mathematics in science and engineering: Vector calculus, Fourier series and transforms, series solutions to differential equations, Sturm-Liouville problems, wave equation, heat equation, Poisson equation, analytic functions, and contour integration. PREREQ: MATH 275 and MATH 333.


MATH 536 PARTIAL DIFFERENTIAL EQUATIONS (3-0-3)(S)(Even years). Theory of partial differential equations and boundary value problems with applications to the physical sciences and engineering. Detailed analysis of the wave equation, the heat equation, and Laplace's equation using Fourier series and other tools. PREREQ: MATH 275 and MATH 335, or PERM/INST.

MATH 537 PRINCIPLES OF APPLIED MATHEMATICS (3-0-3)(S). Finite and infinite dimensional vector spaces, spectral theory of differential operators, distributions and Green's functions applied to initial and boundary value problems. Potential theory, and conformal mappings. Asymptotic methods and perturbation theory. Exact content determined by the instructor. PREREQ: MATH 427 or MATH 527 or PERM/INST.

MATH 547 HISTORY OF MATHEMATICS (3-0-3)(F/S/SU). The course is designed for mathematics teachers in the secondary school. The course consists of two parts: the first part traces the development of algebra, geometry, analytic geometry and calculus to the 19th century; the second part gives a brief introduction to, and history of, some of the developments in mathematics during the last century. May not be used for the Master's degree in Mathematics. PREREQ: PERM/INST.


MATH 562 PROBABILITY AND STATISTICS (3-0-3)(F). Provides a solid foundation in the mathematical theory of statistics. Topics include probability theory, distributions and expectations of random variables, transformations of random variables, moment-generating functions, basic limit concepts and brief introduction to theory of estimation and hypothesis testing: point estimation, interval estimation and decision theory. PREREQ: MATH 275, MATH 301, and MATH 361.

MATH 564 MATHEMATICAL MODELING (3-0-3)(F/SU). Introduction to mathematical modeling through case studies. Deterministic and probabilistic models; optimization. Examples will be drawn from the physical, biological, and social sciences. A modeling project will be required. May not be used for the master's degree in Mathematics. PREREQ: MATH 361 or PERM/INST.

MATH 565 (CS 565) NUMERICAL METHODS I (3-0-3)(F). Approximation of functions, solutions of equations in one variable and of systems of equations. Programming assignments. May be taken for CS or

MATH 571 DATA ANALYSIS (3-0-3)(S). Applications of statistical data analysis in various disciplines, introduction to statistical software, demonstration of interplay between probability models and statistical inference. Topics include introduction to concepts of random sampling and statistical inference, goodness of fit tests for model adequacy, outlier detection, estimation and testing hypotheses of means and variances, analysis of variance, regression analysis and contingency tables. PREREQ: MATH 361.

MATH 572 COMPUTATIONAL STATISTICS (3-0-3)(F). Introduction to the trend in modern statistics of basic methodology supported by state-of-art computational and graphical facilities, with attention to statistical theories and complex real world problems. Includes: data visualization, data partitioning and resampling, data fitting, random number generation, stochastic simulation, Markov chain Monte Carlo, the EM algorithm, simulated annealing, model building and evaluation. A statistical computing environment will be used for students to gain hands-on experience of practical programming techniques. PREREQ: MATH 361 or PERM/INST.

MATH 573 TIME SERIES ANALYSIS (3-0-3)(S)(Even years). Introduction to time series analysis with an emphasis on application to interdisciplinary projects using SAS/ETS; autoregressive-moving average models, seasonal models, model identification, parameter estimation, model checking, forecasting, estimation of trends and seasonal effects, transfer function models, and spectral analysis. PREREQ: MATH 361 or PERM/INST.

MATH 574 LINEAR MODELS (3-0-3)(S)(Odd years). Introduction to the Gauss-Markov model with use of relevant statistical software. Includes linear regression, analysis of variance, parameter estimation, hypothesis testing, model building and variable selection, multicollinearity, regression diagnostics, prediction, general linear models, split plot designs, repeated measures analyses, random effects models. PREREQ: MATH 361.

MATH 579 TEACHING COLLEGE MATHEMATICS (1-0-1). Development of skills in the teaching of college mathematics. Effective use of class time, syllabus and test construction, learning styles, and disability issues. Lecturing, use of group work, and other teaching techniques. (Pass/Fail.) PREREQ: PERM/INST.

MATHED 511 SURVEY OF RESEARCH IN MATHEMATICS EDUCATION (3-0-3)(F/S). Study of the design, development and analysis of school mathematics curriculum materials. Includes careful examination of national standards, curriculum reports, and instructional materials from mathematical, pedagogical, and developmental perspectives.

MATHED 512 MATHEMATICS EDUCATION RESEARCH DESIGN (3-0-3)(F/S/SU). Advanced perspectives on strategies for conducting research in mathematics education, including principles of quantitative, qualitative, and mixed methods research design.

MATHED 523 TEACHING AND LEARNING ALGEBRA AND FUNCTIONS (3-0-3)(F/S/SU). Contemporary approaches to teaching school algebra based on mathematics education research. Topics include selected concepts in school algebra, teaching methods and materials, and research on the conceptual development of algebraic ideas.

MATHED 524 TEACHING AND LEARNING GEOMETRY (3-0-3)(F/S/SU). Guided exploration of basic concepts in Euclidean, transformational, and other non-Euclidean geometries (e.g., taxi-cab geometry, spherical geometry). Includes current research related to the teaching and learning of geometry.

MATHED 525 TEACHING AND LEARNING CALCULUS (3-0-3)(F/S/SU). Investigations of contemporary approaches to teaching and learning calculus based on mathematics education literature. Topics include selected concepts of differential and integral calculus, teaching methods and materials, research on student thinking, and the historical development of calculus.

MATHED 526 TEACHING AND LEARNING STATISTICS (3-0-3)(F/S/SU). Investigations of contemporary approaches to teaching statistics based on educational literature. Topics include selected concepts in data collection, descriptive and inferential statistics, probability, strategies for teaching statistics, and research on student thinking.


MATHED 558 SEMINAR IN MATHEMATICS EDUCATION (2-0-2)(SU). The content will vary within a format of student presentation and discussion of relatively advanced mathematics education topics selected from texts or journals. This will not be a seminar in mathematics.
Department of Mechanical and Biomedical Engineering

College of Engineering

Chair: Don Plumlee
Engineering Building, Room 201
(208) 426-3575 (phone)
(208) 426-4800 (fax)
dplumlee@boisestate.edu (email)

Graduate Faculty: Ferguson, Fitzpatrick, Gardner, Guarino, Lujan, Plumlee, Satici, Senocak, Tennyson, Uzer, Zhang

Graduate Degrees Offered

• Master of Engineering in Mechanical Engineering
• Master of Science in Mechanical Engineering

General Information

The Department of Mechanical and Biomedical Engineering offers two distinct engineering graduate degree programs. The program leading to the Master of Science in Mechanical Engineering (MS ME) is a thesis-based program designed to prepare students for research and development and further study at the doctoral level. The program leading to the Master of Engineering in Mechanical Engineering (MEngr ME) is a non-thesis program with a focus on professional development.

Application Deadlines

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
• February 1 (fall)
• July 1 (spring)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree in mechanical engineering from an ABET-accredited program or a baccalaureate degree from a closely related science or engineering field from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits or the last 60 credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. A statement of purpose that describes the applicant’s educational and professional background, career goals, and motivation for graduate study.
3. Official Graduate Record Examinations (GRE) General Test combined (verbal plus quantitative) score of 304 (1,100 in old scoring system) with a minimum quantitative score of 153 (680 in old scoring system). Applicants holding a baccalaureate degree from the College of Engineering at Boise State University are not required to submit a GRE score.
4. Three letters of recommendation from academic or professional references.

Graduate Assistantships

Graduate assistantships within the department are highly competitive and may consist of a stipend and a tuition and fee waiver. Typical assignments include research assistants, teaching assistants or assignments related to specific areas. Graduate assistantships are awarded for one year and may be renewed for an additional year.

MASTER OF ENGINEERING IN MECHANICAL ENGINEERING

Program Coordinator: John Gardner
Yanke, Room 905
(208) 426-5702 (phone)
jgardner@boisestate.edu (email)

Degree Requirements

Students must complete at least 31 graduate credits distributed as shown in the degree requirements table. A maximum of 3 credits of ME 596 Independent Study may be applied to meet the degree requirements. The comprehensive examination cannot be attempted prior to the last semester of the program. If the comprehensive examination is failed on the first attempt, then the student may be permitted a second attempt. Failure on the second attempt will result in dismissal from the program.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Engineering and Mathematics Core</td>
<td></td>
</tr>
<tr>
<td>MATH 527 Introduction to Applied Mathematics for Scientists and Engineers or MATH 536 Partial Differential Equations or MATH 537 Principles of Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ME 510 Continuum Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following courses: MATH 565 Numerical Methods I MATH 571 Data Analysis MATH 572 Computational Statistics ME 536 Computational Fluid Dynamics ME 570 Finite Element Methods ME 571 Parallel Scientific Computing Another course with a computational emphasis approved by the student’s advisor.</td>
<td>3</td>
</tr>
<tr>
<td>Mechanical Engineering Graduate Courses Courses with ME prefix to be selected with student input and approved by the supervisory committee.</td>
<td>12-21</td>
</tr>
<tr>
<td>Non-Mechanical Engineering Graduate Courses Graduate courses in a related field. Masters students may take up to 6 credits of upper division (300 level and above) undergraduate courses. Advisor approval required.</td>
<td>0-9</td>
</tr>
<tr>
<td>Culminating Activity ME 690 Master’s Comprehensive Examination</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>31</td>
</tr>
</tbody>
</table>
MASTER OF SCIENCE IN MECHANICAL ENGINEERING

Program Coordinator: John Gardner
Yanke, Room 905
(208) 426-5702 (phone)
jgardner@boisestate.edu (email)

Degree Requirements

Students must complete at least 30 graduate credits distributed as shown in the degree requirements table. Prior to admission to candidacy, the student's thesis committee must be formed and the thesis proposal must be presented to the committee, the form of the proposal and presentation is left to the discretion of the thesis advisor. The thesis committee must contain at least three members, all of whom must be on the University graduate faculty. The thesis must constitute an original contribution to knowledge in mechanical engineering and must be successfully defended at a final oral examination. All work directly related to the thesis must be represented by at least 6 credits of ME 593.

Master of Science in Mechanical Engineering

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Engineering and Mathematics Core</td>
<td></td>
</tr>
<tr>
<td>MATH 527 Introduction to Applied Mathematics for Scientists and Engineers or MATH 536 Partial Differential Equations or MATH 537 Principles of Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>ME 510 Continuum Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following courses:

- MATH 565 Numerical Methods I
- MATH 571 Data Analysis
- MATH 572 Computational Statistics
- ME 536 Computational Fluid Dynamics
- ME 570 Finite Element Methods
- ME 571 Parallel Scientific Computing
- Another course with a computational emphasis approved by the student's advisor.

Mechanical Engineering Graduate Courses

Courses with ME prefix to be selected with student input and approved by the supervisory committee.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Engineering Graduate Courses</td>
<td></td>
</tr>
<tr>
<td>Non-Mechanical Engineering Graduate Courses</td>
<td></td>
</tr>
<tr>
<td>Graduate courses in a related field. Masters students may take up to 6 credits of upper division (300 level and above) undergraduate courses. Advisor approval required.</td>
<td>0-9</td>
</tr>
</tbody>
</table>

Culminating Activity

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 593 Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Total 30

Special Rule on Transfer Credit

The normal transfer credit policies of the Graduate College hold except that up to 15 transfer credits earned in combination at the University of Idaho and Idaho State University may be applied to either degree program (MS ME or MEEng ME) with the approval of the supervisory committee.

Course Offerings

ME—Mechanical Engineering

ME 510 CONTINUUM MECHANICS (3-0-3)(F/S). Development and analysis of fundamental relationships and constitutive equations for deformation, strain, and stress of materials occupying a continuous domain. Eulerian and Lagrangian methods are covered. Vector and tensor techniques developed. PREREQ: Graduate standing or PERM/INST.

ME 520 (KINES 520) ADVANCED BIOMECHANICS (3-0-3)(F). Mechanical principles and analytical methods used in traditional and contemporary biomechanics. Topics include functional anatomy, joint kinematics, inverse dynamics, mechanical properties of biological materials, and modeling of the musculoskeletal system. May be taken for KINES credit, but not both. PREREQ: ENGR 220 or PERM/INST.

ME 522 ADVANCED THERMODYNAMICS (3-0-3)(F/S). Advanced topics selected from Statistical Thermodynamics, Thermodynamics of Chemically Reacting Gases, Thermodynamics Property Formulation for Computer Applications and others at the discretion of the professor. PREREQ: ME 420.

ME 525 (KINES 525) LABORATORY TECHNIQUES IN BIOMECHANICS (3-0-3)(S). An introduction to the analysis techniques used to study the mechanics of human motion. Topics include cinematography, videography, force transducers, electromyography and computer analysis techniques. May be taken for KINES credit or ME credit, but not both. PREREQ: KINES 520/ME 520 or PERM/INST.

ME 526 RENEWABLE ENERGY SYSTEMS (3-0-3)(F/S). A survey of renewable energy systems including solar, wind biomass, as compared to traditional electric power production and distribution. PREREQ: ENGR 240, ME 302, and CE 330 or ME 330.


ME 532 ACOUSTICS (3-0-3)(F/S). Basic theories of acoustics, wave equatio
ME 538 CONVECTIVE HEAT TRANSFER (3-0-3)(F/S). Treatment of energy and linear momentum conservation equations; laminar and turbulent forced convective HT in internal and external flow fields; free convection. PREREQ: ME 320.

ME 539 RADIATION HEAT TRANSFER (3-0-3)(F/S). Radiation heat transfer due to emission and absorption between surfaces and within materials. Analytical and numerical solutions for steady and unsteady heat transfer due to radiation as a dominant process or in combination with convection and conduction. PREREQ: Graduate standing or PERM/INST.


ME 560 COMPUTER AIDED DESIGN (3-0-3)(F/S). Computer programs used to develop 3-D CAD database for design, analysis, simulation, and manufacturing. Machinery design to meet functional, performance, reliability and manufacturing requirements. Design projects reinforce concepts and methodologies. For students desiring higher level CAD skills prior to taking ME 480. PREREQ: ME 320.

ME 561 (ECE 561) CONTROL SYSTEMS (3-0-3)(S). Time and frequency domain analysis and design of feedback systems using classical and state space methods. Observability, controllability, pole placement, and observers. May be taken for ECE or ME credit, but not both.

ME 566 DYNAMIC MODELING AND CONTROL OF ENGINEERING SYSTEMS (3-0-3)(F/S/SU). Multi-physics modeling of lumped parameter systems. Theoretical basis of system response including classical differential equations, state space methods, Laplace and frequency domain approaches. Closed loop stability and overview of SISO control system specification and design. Emphasis on computer simulation and model verification. PREREQ: Graduate standing or PERM/INST.

ME 570 FINITE ELEMENT METHODS (3-0-3)(F/S). Theoretical development of finite element methods, solution algorithm formulation, and problem solving in stress analysis, heat transfer, and fluid flow. PREREQ: ENGR 220, and CE 350 or ME 350, and PERM/INST.

ME 571 PARALLEL SCIENTIFIC COMPUTING (3-0-3)(F/S). Introduction to parallel scientific and technical computing on supercomputers and modern graphics processing units. Finite difference methods to solve partial differential equations governing heat conduction and wave propagation. Scientific visualization of simulation data. Performance optimization of scientific codes. Course projects involve parallel computer programming of prototype problems. PREREQ: CS 117, MATH 333, or PERM/INST.

ME 574 ADVANCED VIBRATIONS (3-0-3)(F/S). Theory and applications of vibrating continuous and discrete multi degree of freedom systems, modal analysis, acquisition and synthesis of data. Experimental and analytical characterization of the vibration response of linear and nonlinear systems, including Transfer and Frequency Response Functions, MIMO and SIMO, and mathematical modeling. PREREQ: ME 472 or PERM/INST.

ME 576 ADVANCED DYNAMICS (3-0-3)(F/S). Analytical modeling to predict the performance of linked, multi-body mechanical systems undergoing large displacements and rotations. Theoretical considerations in preparing models for computer simulations and interpreting results. Application of a state of the art computer package in creating realistic simulations. PREREQ: ME 380 or PERM/INST.

ME 577 (BIOL 577)(MSE 577) BIOMATERIALS (3-0-3)(F/S). Theory of biomaterials science. Medical and biological materials and their applications. Selection, properties, characterization, design and testing of materials used by or in living systems. May be taken for BIOL, ME, or MSE credit, but not from more than one department. PREREQ: MSE 245 or CHEM 112.

ME 578 DESIGN AND ANALYSIS OF MECHATRONIC SYSTEMS (3-0-3)(F/S). Design and analysis of engineering systems containing mechanical, electro-mechanical and embedded computer elements. The course provides an overview of basic electronics, digital logic, signal processing and electromechanical devices. Fundamentals of event-driven programming will also be covered. PREREQ: ENGR 240.

ME 582 OPTIMAL DESIGN (3-0-3)(F/S). Analytical and computer methods used to provide optimal design of products or processes. Formulation, specification, figures of merit, controllable variables, constraints and relationships among design variables. Single and multi-variable optimization algorithms using linear and nonlinear programming methods to design problems in structures, machine components, and energy systems. PREREQ: MATH 275, PHYS 211, and PHYS 211L.

ME 585 VEHICLE DESIGN (3-0-3)(F/S). Subsystem design for wheeled vehicles including bicycles, motorcycles, cars, trucks and ATVs. Static and dynamic analyses of traction and reaction forces during acceleration, braking and cornering. Suspension response analysis. Subsystem design including suspension, chassis, steering, transmission, brakes, and tires. PREREQ: ENGR 220, MSE 245, and CE 350 or ME 350.
Micron School of Materials Science and Engineering
College of Engineering

Director: William Hughes
Engineering Building, Room 338D
(208) 426-5600 (phone)

Interdisciplinary Participation
- Doctor of Philosophy in Materials Science and Engineering
- Master of Engineering in Materials Science and Engineering
- Master of Science in Materials Science and Engineering
- Graduate Certificate in Computational Materials Science and Engineering
- Graduate Certificate in Foundations in Materials Science and Engineering
- Graduate Certificate in Nanomaterials Science and Engineering

General Information
Established in 2004, the Micron School of Materials Science and Engineering houses three distinct interdisciplinary graduate degrees: Doctor of Philosophy (PhD), Master of Science (MS) and Master of Engineering (MEng) and three graduate certificate programs. With an interdisciplinary base of faculty from backgrounds including, but not limited to: Materials Science and Engineering, Mechanical and Biomedical Engineering, Electrical and Computer Engineering, Civil Engineering, Physics, Chemistry, and Biology, students enrolled in the graduate programs benefit from their diversity of background and the interdisciplinary nature of the field. Governance of the graduate and certificate programs is based upon participating faculty from constituent departments and overseen by the School.

Materials Science and Engineering is a highly interdisciplinary field that rests between basic science and engineering. Because of this, graduates develop collaborative skills that transcend disciplinary boundaries as well as technical skills and fundamental knowledge that make them highly attractive to the regional, national, and international workforce.

(See the Materials Science and Engineering Programs section for program descriptions and course offerings.)
Department of Music

College of Arts and Sciences | School of the Arts

Chair: Linda Kline
Morrison Center, Room C-100
(208) 426-3665 (phone)
(208) 426-1771 (fax)
https://music.boisestate.edu/ (website)

Graduate Faculty: Alexander, Baldwin, Belfy, Berg, Brown, Gray, Hansen, Hodges, Jirak, Kline, Molumbly, Moreau, Paradis, Parkinson, Porter, Purdy, Rushing-Raynes, Saunders, Tornello

Graduate Degrees Offered
- Master of Music, Music Education
- Master of Music, Performance

General Information
The Master of Music (MM) is a professional degree in music with emphasis in either 1) music education or 2) performance. The emphasis in education is designed to meet the needs of music education specialists who work in the public school system, grades K-12, or who aspire to further graduate study and teaching in music education. Students engage in critical inquiry in music education through graduate courses related to research, pedagogy, history, and philosophy, as well as graduate courses in music theory and history. Declaring an area of emphasis of either elementary, choral, or secondary instrumental, students structure elective credits to reflect their area, and conclude their studies with a culminating activity related to their emphasis. Performance majors seek to improve their performance and studio teaching skills, possibly in preparation for a performance career, further graduate study, private studio teaching, and/or collegiate applied teaching. Their course work centers around applied study, music theory and history, and pedagogy and literature courses, and culminates in a graduate recital or other appropriate culminating project.

MASTER OF MUSIC, MUSIC EDUCATION
Graduate Program Coordinator: Jeanne Belfy
Morrison Center, Room C-509
(208) 426-1216 (phone)
jbelfy@boisestate.edu (email)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree in music from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the Music Education Emphasis is based on:

1. Official transcripts from all colleges attended.
2. The completion of a BM in Music Education or equivalent with certification.
3. A current résumé.
4. A formal writing sample.
5. Three letters of recommendation from professionals who are familiar with the applicant’s teaching.

Graduate Assistantships
The Department offers four full graduate assistantships, and the Blue Thunder Marching Band program offers three full graduate assistantships. A cooperative program for string students exists with the Boise Philharmonic Orchestra. Contact the graduate program coordinator for further information.

Degree Requirements

<table>
<thead>
<tr>
<th>Master of Music, Music Education</th>
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</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
</tr>
<tr>
<td>-----------------------------</td>
</tr>
<tr>
<td><strong>Graduation Requirements</strong></td>
</tr>
<tr>
<td>Core Courses</td>
</tr>
<tr>
<td>MUS 503 Introduction to Music Research</td>
</tr>
<tr>
<td>MUS 510 Advanced Analytical Procedures I</td>
</tr>
<tr>
<td>MUS 570 New Developments in Music Education</td>
</tr>
<tr>
<td>MUS 576 History and Philosophy of Music Education</td>
</tr>
<tr>
<td>Music Education Emphasis Area and Electives</td>
</tr>
<tr>
<td>A. 6 credits in the student’s area of emphasis: elementary general music, choral music, or instrumental music. No more than four (4) workshop elective credits, of which one may be a music conference credit, may be applied towards the degree.</td>
</tr>
<tr>
<td>B. 3 credits additional approved electives in music</td>
</tr>
<tr>
<td>Other Music Courses</td>
</tr>
<tr>
<td>Music History</td>
</tr>
<tr>
<td>Additional credits selected from the following area(s)</td>
</tr>
<tr>
<td>A. Additional music theory or history course(s)</td>
</tr>
<tr>
<td>B. Music Ensemble(s)</td>
</tr>
<tr>
<td>C. Private Music Lessons</td>
</tr>
<tr>
<td>D. Conducting course(s)</td>
</tr>
<tr>
<td>Comprehensive Examination</td>
</tr>
<tr>
<td>Oral Examination</td>
</tr>
<tr>
<td>Culminating Activity</td>
</tr>
<tr>
<td>MUS 591 Project (3 cr) or</td>
</tr>
<tr>
<td>MUS 593 Thesis (6 cr)</td>
</tr>
<tr>
<td>Total</td>
</tr>
</tbody>
</table>
MASTER OF MUSIC, PERFORMANCE
Graduate Program Coordinator: Jeanne Belfy
Morrison Center, Room C-309
(208) 426-1216 (phone)
jbelfy@boisestate.edu (email)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree in music from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the Master of Music, Performance is based on:

1. Official transcripts from all colleges attended.
2. A formal writing sample (short undergraduate academic research paper).
3. A satisfactory audition, in person, before the performance faculty of his/her major area of performance (i.e., keyboard, winds, strings, etc.).
4. Three letters of recommendation from professors familiar with their work.

Graduate Assistantships
The Department offers four full graduate assistantships, and the Blue Thunder Marching Band program offers three full graduate assistantships. A cooperative program for string students exists with the Boise Philharmonic Orchestra. Contact the graduate program coordinator for further information.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements</td>
<td></td>
</tr>
<tr>
<td>32 credits minimum, stipulated below, are required for graduation. The actual number of credit hours may vary, depending on the needs of individual students as determined by the results of predictive examinations.</td>
<td></td>
</tr>
<tr>
<td>Core Courses</td>
<td></td>
</tr>
<tr>
<td>MUS 503 Introduction to Music Research</td>
<td>3</td>
</tr>
<tr>
<td>MUS 510 Advanced Analytical Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>MUS 557 Major Instrument Literature</td>
<td>3</td>
</tr>
<tr>
<td>Music History Elective</td>
<td>3</td>
</tr>
<tr>
<td>Performance Courses</td>
<td></td>
</tr>
<tr>
<td>MUS 563, 564 Major Instrument Pedagogy I, II, or additional Music History and/or Music Theory (6 cr)</td>
<td>17-18</td>
</tr>
<tr>
<td>‘MUS 465G, 466G Diction for Singers I, II (4 cr) or Additional Graduate level music elective (3 cr)</td>
<td></td>
</tr>
<tr>
<td>MUS-PRV S_4 Private lessons on major instrument (8 cr)</td>
<td></td>
</tr>
<tr>
<td>(2 semesters minimum; private lessons must be taken each semester of residency)</td>
<td></td>
</tr>
<tr>
<td>Performance Culminating Project</td>
<td></td>
</tr>
<tr>
<td>MUS-APL 546 Graduate Solo Performance Recital</td>
<td>3</td>
</tr>
<tr>
<td>Performance Comprehensive Review</td>
<td></td>
</tr>
<tr>
<td>After successful completion of the culminating project, the student’s committee will administer a written examination consisting of three questions, one from each committee member. The questions will cover areas of the student’s recital or culminating project and course work toward the degree. After satisfactory completion of the written examination, the committee will meet with the student for an oral examination.</td>
<td></td>
</tr>
</tbody>
</table>

Total: 32-33

Course Offerings

MUS—Music, General

MUS 423G SIXTEENTH-CENTURY COUNTERPOINT (3-0-3)(S).
Study of 16th century compositional techniques. Compositions will be written in 2 to 4 voices, 5 species, C clefs and Latin texts. Analysis of/listening to music of the period. Additional compositions and/or research for graduate credit. PREREQ: MUS 220 or equivalent.

MUS 424G COUNTERPOINT SINCE 1600 (3-0-3)(F).
Study and writing in contrapuntal styles from Baroque period to present day. Invertible counterpoint, canon, fugue, invention, and analysis of procedures in representative works. Additional compositions and/or research for graduate credit. PREREQ: MUS 220.

MUS 465G DICTION FOR SINGERS I (2-0-2)(F)(Odd years).
A course designed for singers, devoted to the understanding of the International Phonetic Alphabet (IPA) system and the learning of the rules of pronunciation in Italian, Latin, and Spanish languages. Graduate students will additionally transcribe an entire song cycle or the songs of a proposed graduation recital. Required for all vocal performance majors and Master of Music vocal performance majors and strongly recommended for all voice emphasis majors. PREREQ: One year of MUS-PRV voice performance studies.

MUS 466G DICTION FOR SINGERS II (2-0-2)(S)(Even years).
A continuation of MUS 465G Diction for Singers I, with emphasis on German, French, and English languages. Graduate students will additionally transcribe an entire song cycle or the songs of a proposed graduation recital. Required for all vocal performance majors and Master of Music vocal performance majors and strongly recommended for all voice emphasis majors. PREREQ: MUS 465G or PERM/INST.

MUS 501 HISTORY OF MUSIC IN THE UNITED STATES (3-0-3)(F/S).
Designed for either the non-specialist or specialist in music, this course will survey the role which music has played in the development of American culture. Vernacular and art music, as well as social and historical interrelationships with music will be examined and discussed. History elective.

MUS 502 SURVEY OF JAZZ (3-0-3)(S).
Explores interpretation of America’s original musical art form through listening and through discussion of socio-cultural contexts of jazz. Survey covers stylistic influences of nineteenth century Africa and western Europe through current living exponents of jazz. In-depth book reviews and research papers on the subject are required. History elective. PREREQ: MUS 100.

MUS 503 INTRODUCTION TO MUSIC RESEARCH (3-0-3)(F/S).
This course will provide an introduction to the basic research literature pertinent to the student’s major area of emphasis; an interpretation of research findings; and the means to develop skills and techniques needed for the writing of an extended research paper, thesis and/or dissertation, articles for publication and book/performance reviews.

MUS 504 SURVEY OF ETHNOMUSICOLOGY AND WORLD MUSIC (3-0-3)(S)(Even years).
This course considers the role of music in society and culture, and examines several musical traditions beyond the scope of Western art music. History elective. PREREQ: Admission to Master of Music program or PERM/INST.

MUS 510 ADVANCED ANALYTICAL PROCEDURES I (3-0-3)(F/S).
Overview of analytical approaches, methodologies, and theories of music of the common-practice period (18th through early 19th centuries) with emphasis on concepts/theories relating to harmony, tonality, and formal organization.

MUS 511 ADVANCED ANALYTICAL PROCEDURES II (3-0-3)(F/S).
Develops and extends aspects of the theoretical systems and analytical paradigms covered in MUS 510 through the close examination of individual works, composers, genres/styles, and/or systems of the late nineteenth through 21st centuries. PREREQ: MUS 510 or PERM/INST.
MUS 512 ELECTRONIC MUSIC APPLICATIONS (3-0-3)(F/S). A historical overview of electronic music and music technology. Hands-on experience with digital and analog synthesizers, effects processors, sampling, tape decks, computers and related software, and MIDI. Emphasis will be placed on the application of fundamental techniques of electronic music to creative composition. Theory elective.

MUS 557 MAJOR INSTRUMENT LITERATURE (3-0-3)(F/S). Advanced survey of the major instrument literature. The student will prepare a research paper on several typical or important works in the repertoire. Repeatable for credit for different instruments.

MUS 561 ADVANCED INSTRUMENTAL CONDUCTING (2-0-2)(F/S). Designed for secondary instrumental music teachers and advanced performers, this course provides opportunity to discover, analyze, and solve technical conducting problems in both wind band and orchestral music. May be repeated for credit.

MUS 563 MAJOR INSTRUMENT PEDAGOGY I (3-0-3)(F). An advanced and in-depth investigation of pedagogical techniques, materials and principles used in the private teaching studio. Readings in the philosophy of teaching will be included. Repeatable for credit for different instruments.

MUS 564 MAJOR INSTRUMENT PEDAGOGY II (3-0-3)(S). Development of lesson plans and supervised studio teaching in both private and group settings. Recommended preparation: MUS 563. Repeatable for credit for different instruments.

MUS 567 CHORAL LITERATURE (2-0-2)(F). Survey course exploring choral works from all time periods. Through secular works will be discussed, special emphasis will be placed on tracing the development of the Mass, Motet, and Requiem throughout history. Strategies for teaching and performing these works will be discussed. Special projects include programming for elementary, secondary, and collegiate choirs.

MUS 570 NEW DEVELOPMENTS IN MUSIC EDUCATION (3-0-3)(F/S). Designed to acquaint the music specialist with recent ideas in music education, including major trends in curriculum, new methodology, music in integrated courses, and reports of major conferences and symposia.

MUS 571 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING MUSIC IN THE ELEMENTARY SCHOOL (3-0-3)(F/S). Designed for the general classroom teacher or music specialist, the course deals with old and new approaches to teaching music in the classroom, teaching materials, current research on problem singers, creative musical activities, and the development of music reading skills. PREREQ: MUS 374 or PERM/INST.

MUS 572 ADVANCED METHODS AND TECHNIQUES FOR THE ELEMENTARY MUSIC INSTRUCTOR (3-0-3)(F). A study of causes and solutions for problems occurring in the elementary music classroom, including methods, materials and teaching techniques. PREREQ: PERM/INST.

MUS 573 ADVANCED METHODS AND TECHNIQUES FOR THE INSTRUMENTAL INSTRUCTOR (3-0-3)(F/S). A study of causes and solutions for problems occurring in the instrumental rehearsal. Areas to be covered include instrumental methods and techniques, organization and repertoire planning.

MUS 574 ADVANCED METHODS AND TECHNIQUES FOR THE CHORAL INSTRUCTOR (3-0-3)(F/S). A study of causes and solutions for problems occurring in the choral rehearsal. Areas to be covered include vocal methods and techniques, organization and repertoire planning.

MUS 576 HISTORY AND PHILOSOPHY OF MUSIC EDUCATION (3-0-3)(F/S). Includes both an introduction to the history of music education in the United States, from colonial New England to the present; and alternate views about the philosophy of music, including aesthetic experience, aesthetic education, and the nature and meaning of music.

MUS-APL—Music Applied, Performance Classes, Recitals

MUS-APL 529 JAZZ IMPROVISATION (1-0-1)(F/S). Private lessons in jazz improvisation. Intended primarily for instrumental majors, this performance-oriented course deals with the principles of jazz harmony and scalar theory. These principles will be applied to selected exercises and standard jazz literature. Students should possess above-average technical facility on their instrument and should have a working knowledge of music theory. Extra fee, non-waivable, per private lesson fee schedule, required. PREREQ: Graduate Standing and MUS 103 or PERM/INST.

MUS-APL 546 GRADUATE SOLO PERFORMANCE RECITAL (0-V-3)(F/S). A full recital to be presented as the culminating project for the Master of Music degree, Performance. (Pass/Fail.) PREREQ: PERM/INST.

MUS-ENS—Music Ensemble

All MUS-ENS courses may be repeated for credit.

MUS-ENS 321G MARCHING BAND (0-V-1)(F). Designed to promote participation in and repertoire knowledge of literature for marching bands. The marching band performs at all home and at least one away football game and occasionally at other university or civic events. Open to all students with the approval of the director. Graduate music students will be expected to assume leadership roles or will be assigned extra duties within the band and/or its organization.

MUS-ENS 323G PEP BAND (0-V-1)(S). Designed to promote participation in and repertoire knowledge for athletic and promotional bands. Regular public performances are required at Boise State athletic events and university and community functions. PREREQ: MUS-ENS 121/321-321G with an audition and/or PERM/INST.

MUS-ENS 501 UNIVERSITY SINGERS (0-2-1)(FS). Open to all, a campus and community choir that focuses on improving vocal technique and musicianship skills. No audition. Major choral works from all periods, public performances.

MUS-ENS 503 CHAMBER SINGERS (0-2-1)(FS). Ten select singers specializing in vocal chamber music, emphasizing Medieval, Renaissance, and Baroque music. Active performance schedule both on campus and in the community. Membership by audition. PREREQ: Audition and/or PERM/INST.

MUS-ENS 505 MEISTERSINGERS (0-2-1)(FS). Advanced 42-voice concert-touring chorus, highest standards, very active performing schedule. Membership by audition. PREREQ: Audition and/or PERM/INST.

MUS-ENS 511 VOCAL JAZZ CHOIR (0-2-1)(FS). Designed to promote participation in and repertoire knowledge of literature for vocal jazz choirs. Public performances. PREREQ: Audition and/or PERM/INST.

MUS-ENS 512 WOMEN'S CHORALE (0-2-1)(FS). Specializing in choral literature for treble voices from all time periods, teaching vocal technique, musicianship, and sight-reading. Public performances. Membership by minimal audition. Public performances are given each semester. PREREQ: Audition and/or PERM/INST.

MUS-ENS 515 OPERA THEATER (0-5-1). Advanced study/experience in singing-acting technique and movement through performing in productions from the opera and/or musical theater repertoire. May be repeated for up to 4 credits maximum. PREREQ: PERM/INST.

MUS-ENS 518 EARLY MUSIC ENSEMBLE (0-3-1)(FS). Course explores European vocal and instrumental music from the Middle Ages, Renaissance and Baroque periods through performance. Graduate music students will be expected to assume leadership roles or will be assigned extra duties within the ensemble. Concert performances by students enrolled in the course are expected each semester. May be repeated for credit.

MUS-ENS 520 SYMPHONIC WINDS (0-5-1)(FS). Rehearsal attendance and performance with the select concert band of the university. PREREQ: Audition and/or PERM/INST.
MUS-ENS 522 TREASURE VALLEY CONCERT BAND (0-3-1)(F,S). Rehearsal attendance and multiple performances with this full symphonic band comprising professionals and advanced adult musicians. PREREQ: PERM/INST.

MUS-ENS 526 JAZZ ENSEMBLE (0-3-1)(F,S). Rehearsal attendance and performance with the university big band jazz ensemble. PREREQ: Audition and/or PERM/INST.

MUS-ENS 540 PERCUSSION ENSEMBLE (0-2-1)(F,S). Rehearsal attendance and performance with the university percussion ensemble. PREREQ: PERM/INST.

MUS-ENS 550 ORCHESTRA (0-5-1)(F,S). Rehearsal attendance and performance with the university orchestra. Graduate students are expected to assume leadership roles or will be assigned extra duties within the orchestra and/or its organization. Audition required for new students. PREREQ: PERM/INST.

MUS-ENS 560 CHAMBER ENSEMBLE (0-V-1)(F,S). Participation in a faculty coached, official departmental chamber ensemble, resulting in a minimum of one public performance per semester. PREREQ: PERM/INST.

MUS-ENS 570 TROMBONE CHOIR (0-2-1)(F,S). Study and performance of the literature, including original and transcribed works for multiple tenor and bass trombones. Public performances each semester. PREREQ: PERM/INST.

MUS-ENS 585 DUO PIANO ENSEMBLE (0-2-1)(F,S). Survey of duet piano literature, rehearsal and performance problems, resulting in public performance each semester. PREREQ: PERM/INST.

MUS-PRV—Music Private Lessons Performance Studies
Students will be assigned on the basis of an audition. Performance, Technical Study, Musical Interpretation, Literature, and Teaching Technique will be stressed. All 500-level MUS-PRV courses are repeatable. See undergraduate Private Lesson Performance Studies course numbering system for explanation of course numbers.

MUS-PRV 501 (0-.5-1), 502 (0-.5-2), 504 (0-1-4). Woodwind instruments private lessons.

MUS-PRV 511 (0-.5-1), 512 (0-.5-2), 514 (0-1-4). Brass instruments private lessons.

MUS-PRV 521 (0-.5-1), 522 (0-.5-2), 524 (0-1-4). Percussion instruments private lessons.

MUS-PRV 531 (0-.5-1), 532 (0-.5-2), 534 (0-1-4). Voice private lessons.

MUS-PRV 541 (0-.5-1), 542 (0-.5-2), 544 (0-1-4). Keyboard instruments private lessons.

MUS-PRV 551 (0-.5-1), 552 (0-.5-2), 554 (0-1-4). Fretted string instruments private lessons.

MUS-PRV 561 (0-.5-1), 562 (0-.5-2), 564 (0-1-4). Bowed string instruments private lessons.
School of Nursing

College of Health Sciences

Director: Ann Hubbert
Norco Building, Room 433
(208) 426-4143 (phone)
https://hs.boisestate.edu/nursing (website)

Graduate Faculty: Ahten, Breitkreuz, Connor, Gallegos, Gehrke, Grassley, Hubbert, Macy, Marz, O’Mallon, Pfengaman, Serratt, Strohhus, Velman, Walters, Willhaus

Graduate Degrees Offered

- Doctor of Nursing Practice
- Master of Nursing, Adult-Gerontology Nurse Practitioner—Acute Care
- Master of Nursing, Adult-Gerontology Nurse Practitioner—Primary Care
- Graduate Certificate in Adult-Gerontology Nurse Practitioner—Acute Care
- Graduate Certificate in Adult-Gerontology Nurse Practitioner—Primary Care
- Graduate Certificate in Healthcare Simulation

General Information

The School offers a graduate nursing program with three degree options; two at the master’s level and one at the doctoral level. In addition there are two options for graduate certificates. All programs are offered via distance education.

DOCTOR OF NURSING PRACTICE

DNP Program Coordinators: Pamela Gehrke
Program Information: Zerik Kadlrik
Norco Building, Room 414A
(208) 426-3819 (phone)
(208) 426-2344 (fax)
nursingdnp@boisestate.edu (email)

General Information

The School of Nursing offers a post master’s Doctor of Nursing Practice (DNP) to prepare nurses with a practice focused doctorate. This post-masters DNP focuses on leadership with an emphasis on evidenced-based practice enhancing development of interventions that impact health outcomes and complex healthcare systems. This curriculum provides nurses with existing graduate degrees the opportunity to develop doctoral level expertise in order to address pressing issues and challenges in today’s complex health care arena by directing the care needs of multiple populations. This program is offered entirely via distance education.

Application Deadline

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- April 15 (fall priority)
- July 15 (fall admission only)

Admission Requirements

Applicants are required to have earned either 1) a master’s degree in Nursing from an Accreditation Commission for Education in Nursing (ACEN) or Commission on Collegiate Nursing Education (CCNE) accredited nursing program or 2) a bachelor’s degree in nursing from an ACEN or CCNE accredited nursing program and a master’s degree in a related field. Students who possess a master’s degree in a related field may be required to take additional courses. Applicants are not required to be certified in a clinical specialty. Applicants must have a cumulative GPA of 3.00 (based on a 4-point scale) for undergraduate nursing coursework and a cumulative GPA of 3.00 in their master's program.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A 500-word comprehensive statement including:
   - A discussion of how the applicant’s career and the nursing profession could be enhanced through two of the eight Essentials of Doctor of Nursing Practice Education established by the American Association of Colleges of Nursing (AACN).
   - Identification of a significant population, organizational or system problem that requires a change. Applicants should explain why this change would achieve a more successful health outcome using evidence. This problem should be one that could potentially be used as a basis for the DNP Scholarly Project.
3. A current résumé or curriculum vitae.
4. A non-refundable application fee of $20 to the School of Nursing https://secureforms.boisestate.edu/hs/agnpdnp-reference/. References must be from faculty members, professional colleagues, or work supervisors who can evaluate the student's potential for success in a doctoral program.

International students must comply with the following from the Commission of Graduates of Foreign Nursing Schools (CGFNS):

1. Credentials review
2. Qualifying examination of nursing knowledge
3. English proficiency exam

For more information, international students should contact the Idaho State Board of Nursing.

Residency Requirements

The DNP program is available to nurses practicing in all states except Georgia, Louisiana, North Dakota, Tennessee, and West Virginia.
Degree Requirements
A minimum of 40 credits post-master’s degree is required for graduation. The part-time program is designed to be completed in a minimum of 2.5 years to a maximum of 7 years. Students must have completed 1000 hours of clinical post-baccalaureate degree. Must have a B or better in all DNP courses.

Doctor of Nursing Practice

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<tbody>
<tr>
<td>NURS 601 Scholarly Project I</td>
<td>2</td>
</tr>
<tr>
<td>NURS 602 Advanced Principles of Population Health Nursing</td>
<td>3</td>
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<tr>
<td>NURS 603 Scholarly Project II</td>
<td>2</td>
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<tr>
<td>NURS 604 Designing Models of Health Care Delivery</td>
<td>3</td>
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<tr>
<td>NURS 605 Scholarly Project III</td>
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<tr>
<td>NURS 608 Health Care Policy and Advocacy</td>
<td>3</td>
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<tr>
<td>NURS 609 Health Care Policy and Advocacy Application</td>
<td>2</td>
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<tr>
<td>NURS 610 Leadership for Organizations, Systems, and Populations</td>
<td>3</td>
</tr>
<tr>
<td>NURS 612 Translation, Integration, and Dissemination of Evidence</td>
<td>3</td>
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<tr>
<td>NURS 614 Outcomes Management Analysis</td>
<td>3</td>
</tr>
<tr>
<td>NURS 616 Health Care Technology, Information Systems, and Quality</td>
<td>3</td>
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<tr>
<td>NURS 618 Quality Improvement and Evaluation Methodology</td>
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<tr>
<td>NURS 620 Scholarly Inquiry and Advanced Evidence-Based Practice</td>
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<td>NURS 621 Scholarly Project IV</td>
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<td>NURS 622 Financial Strategies for Nurse Leaders</td>
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MASTER OF NURSING, ADULT-GERONTOLOGY NURSE PRACTITIONER—ACUTE CARE OR PRIMARY CARE

AGNP Program Coordinator: Jennifer Stock
Program Information: Zerik Kadlik
Norco Building, Room 414A
(208) 426-3819 (phone)
(208) 426-2344 (fax)
gerontologygrad@boisestate.edu (email)
https://hs.boisestate.edu/nursing/agnp/ (website)

General Information
The Adult-Gerontology Nurse Practitioner (AGNP) program prepares students for certification as an Adult-Gerontology Nurse Practitioner through certification agencies such as the American Nurses Credentialing Center—ANCC (http://www.nursingcredentialing.org) or the American Association of Nurse Practitioners—AANP (https://www.aanp.org/) and licensure as a nurse practitioner by the State Board of Nursing. The adult gerontology program has two separate tracks—acute care or primary care. The acute care track prepares graduates to test for the AGNP-acute care certification and the primary care track prepares graduates to test for the AGNP-primary care certification. Note: Certification is available for graduates with a Masters or Doctorate in Nursing as an advanced practice nurse.

Students in both the acute and primary care tracks will specialize in care of adults with a focus on older adults. Students in the acute care track will focus on diagnosis and treatment of patients in the acute care setting and clinical experiences occur in primary care settings. This program is offered primarily via distance education with three on site experiences on the Boise State University campus. Clinical experiences are arranged in collaboration with the student, and ideally, students are placed in the communities where they reside. Note: This may not be available in all states.

Application Deadline
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- September 1 (spring admission only)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree in nursing from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all previous graduate coursework from the applicant’s most recent degree. Applicants must have a cumulative GPA of 3.00 (based on a 4-point scale) for upper-division credits from the last half of undergraduate nursing courses and graduate courses.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A 500-word personal statement that includes educational goals, and long term professional goals. This statement will be evaluated for the quality of both the content and writing style (i.e. grammar, punctuation, spelling, word use) and must:
   - Clearly explain the advanced practice nursing role you seek to fulfill following graduation.
   - Provide rationale for specializing in either Acute Care or Primary Care.
   - Demonstrate your understanding of the role of the advanced practice nurse practitioner in Adult Gerontology.
   - Explain why you have chosen the AGNP program at Boise State University.
3. Three professional references. References must be from a current employer or prior nursing faculty.
4. A current résumé or curriculum vitae.
5. A valid, unencumbered RN license from within the United States.
7. Completion of the Written Interview Survey AGNP Master’s of Nursing form.
8. Three professional references. References must be from a current employer or prior nursing faculty.
9. Completion of an undergraduate statistics course with a grade of C or better. If this course was completed 5 or more years prior to admission, applicants are highly encouraged to update their knowledge of statistical course content prior to entry into the AGNP program.
10. Completion of an undergraduate research course with a grade of C or better. If this course was completed 5 or more years prior to admission, applicants are highly encouraged to update their research skills prior to entry into the AGNP program.
11. The ability to meet the National Council of State Boards of Nursing (NCSBN) functional abilities essential for nursing practice, including:
   - Ability to see, hear, and touch, smell and distinguish colors.
   - Oral and written ability with accuracy, clarity and efficiency.
   - Manual dexterity, gross and fine movements.
   - Ability to learn, think critically, analyze, assess, solve problems, and reach judgments.
   - Emotional stability and ability to accept responsibility and accountability.
12. Three professional references using the AGNP/DNP Reference Direct form https://secureforms.boisestate.edu/hs/agnpdnp-reference/. References must be from a current employer or prior nursing faculty.

International students must comply with the following from the Commission of Graduates of Foreign Nursing Schools (CGFNS):
1. Credentials review
2. Qualifying examination of nursing knowledge
3. English proficiency

For more information, international students should contact the Idaho State Board of Nursing.

**Residency Requirements**
The AGNP program is available to nurses currently practicing in Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Texas, Utah, Washington, and Wyoming.

Some states may have additional licensure requirements including, but not limited to: fingerprinting, verification of citizenship, and/or verification of certification. It is the applicant’s responsibility to seek guidance from their own to identify any supplemental materials or education that will be essential to fulfilling licensure prerequisites. View licensure requirements by state.

**Degree Requirements**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Nursing Core</strong></td>
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<tr>
<td>NURS 502 Foundation of Knowledge and Theory for Advanced Nursing</td>
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</tr>
<tr>
<td>NURS 508 Advanced Research &amp; Scholarly Inquiry for Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 522 Concepts of Population Nursing in Health Systems</td>
<td>3</td>
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<tr>
<td><strong>Nurse Practitioner Core</strong></td>
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<tr>
<td>NURS 510 Advanced Physiology and Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 516 Advanced Pharmacotherapeutics</td>
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<td>NURS 518 Health Assessment for the Advanced Practice Nurse</td>
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<td>NURS 519 Health Assessment for the Advanced Practice Nurse Clinical</td>
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<td>NURS 520 Professional Role for the Advanced Practice Nurse</td>
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<tr>
<td>NURS 532 Leadership for Advanced Nursing Practice</td>
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<tr>
<td>NURS 534 Diagnosis and Management of Adult/Geriatric Health and Illness</td>
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<td>NURS 535 Diagnosis and Management of Adult/Geriatric Health and Illness Clinical</td>
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<td>NURS 560 Scholarly Synthesis</td>
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**Acute Care Option**

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<td>Nursing Core and Adult-Gerontology Nurse Practitioner Core</td>
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<td>Acute Care Option</td>
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<td>NURS 536 Acute Care Management of Adult/Geriatric Health and Illness I</td>
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<td>NURS 539 Acute Care Management of Adult/Geriatric Health and Illness II Clinical</td>
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<td>NURS 541 Acute Care Clinical Residency</td>
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<tr>
<td>NURS 549 Acute Care Procedures and Diagnostics for the Advanced Practice Nurse</td>
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<td>NURS 557 Acute Care Clinical Skills Synthesis</td>
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**Primary Care Option**

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<td>Primary Care Option</td>
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<td>NURS 542 Primary Care Management of Adult/Geriatric Health and Illness I</td>
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<td>NURS 543 Primary Care Management of Adult/Geriatric Health and Illness I Clinical</td>
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<td>NURS 547 Primary Care Clinical Residency</td>
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GRADUATE CERTIFICATE IN ADULT-GERONTOLOGY NURSE PRACTITIONER—ACUTE CARE OR PRIMARY CARE

Graduate Program Coordinator: Jennifer Stock
Program Information: Zerik Kadlik
Norco Building, Room 414A
(208) 426-3819 (phone)
(208) 426-2344 (fax)
gerontologygrad@boisestate.edu (email)
https://hs.boisestate.edu/agnp/ (website)

General Information
Nurse practitioners prepared with a master’s degree or higher who want to change or expand their knowledge in specialty areas may apply for a Graduate certificate in Adult-Gerontology Acute or Primary care. Completion of the graduate certificate program will prepare students for certification as an adult gerontology nurse practitioner through certification agencies such as the American Nurses Credentialing Center—ANCC (http://www.nursecredentialing.org/), the American Association of Critical-Care Nurses—AACN (https://www.aacn.org/), or the American Association of Nurse Practitioners—AANP (https://www.aanp.org/). The acute care graduate certificate program prepares graduates to test for the AGNP-acute care certification and the primary care graduate certificate program prepares graduates to test for the AGNP-primary care certification. Note: Certification is available for graduates with a master’s or doctorate degree in advanced practice nursing.

Students in both the acute and primary care tracks will specialize in care of adults with a focus on older adults. Students in the acute care track will focus on diagnosis and treatment of patients in the acute care setting and all clinical experiences will occur in acute care settings. Students in the primary care track will focus on prevention, diagnosis, and treatment of patients in the ambulatory setting and all clinical experience occur in primary care settings. This program is offered primarily via distance education with 2 short on-site experiences on the Boise State University campus. The remainder of clinical experiences will occur in the area where the student resides.

Application Deadline
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

• February 1 (summer admission only)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree or master’s degree in nursing from a CCNE or ACEN accredited nursing program and from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree or master’s degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all previous graduate coursework from the applicant’s most recent degree. Applicants must have a cumulative GPA of 3.00 (based on a 4-point scale) in graduate courses.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A 500-word personal statement that explains the motivation and interest in expanding your scope of practice to adult gerontology with a specialization in either acute care or primary care. Explain why you have chosen the AGNP graduate certificate program.
3. Explain why you have chosen the AGNP program at Boise State University.
4. A current résumé or curriculum vitae.
5. A valid, unencumbered RN license and national certification as a nurse practitioner.
6. A valid, unencumbered NP license issued by a state or territory of the United States.
7. A national board certification (AANP, ANCC) allowing practice as a Nurse Practitioner.
9. The ability to meet the National Council of State Boards of Nursing (NCSBN) functional abilities essential for nursing practice, including:
   • Ability to see, hear, and touch, smell and distinguish colors.
   • Oral and written ability with accuracy, clarity and efficiency.
   • Manual dexterity, gross and fine movements.
   • Ability to learn, think critically, analyze, assess, solve problems, and reach judgments.
   • Emotional stability and ability to accept responsibility and accountability.
10. Two professional references using the AGNP/DNP Reference Direct form https://secureforms.boisestate.edu/hs/agnpdnp-reference/. References must be from a current employer or prior nursing faculty.

International students must comply with the following from the Commission of Graduates of Foreign Nursing Schools (CGFNS):

1. Credentials review
2. Qualifying examination of nursing knowledge
3. English proficiency

For more information, international students should contact the Idaho State Board of Nursing.

Residency Requirements
The AGNP program is available to nurses currently practicing in Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nebraska, Nevada, New Mexico, Oregon, Texas, Utah, Washington, and Wyoming. Some states may have additional licensure requirements including, but not limited to: fingerprinting, verification of citizenship, and/or verification of certification. It is the applicant’s responsibility to seek guidance from their own to identify any supplemental materials or education that will be essential to fulfilling licensure prerequisites. View licensure requirements by state.

Certificate Requirements

<table>
<thead>
<tr>
<th>Graduate Certificate in Adult-Gerontology Nurse Practitioner—Acute Care</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 536 Acute Care Management of Adult/Geriatric Health and Illness I</td>
<td>4</td>
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<tr>
<td>NURS 537 Acute Care Management of Adult/Geriatric Health and Illness I Clinical</td>
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<td>NURS 538 Acute Care Management Adult/Geriatric Health and Illness II</td>
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<tr>
<td>NURS 539 Acute Care Management of Adult/Geriatric Health and Illness II Clinical</td>
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<td>NURS 541 Acute Care Clinical Residency</td>
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<tr>
<td>NURS 549 Acute Care Procedures and Diagnostics for the Advanced Practice Nurse</td>
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<tr>
<td>NURS 557 Acute Care Clinical Skills Synthesis</td>
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<tr>
<td>Total</td>
<td>19</td>
</tr>
</tbody>
</table>
GRADUATE CERTIFICATE IN HEALTHCARE SIMULATION
Graduate Simulation Certificate Coordinator: Janet Willhaus
Norco Building, Room 334
(208) 426-3712 (phone)
(208) 426-2344 (fax)
simulationcertificate@boisestate.edu (email)
https://hs.boisestate.edu/nursing/gscp/ (website)

General Information
The Healthcare Simulation Certificate is a one year, 9 credit graduate program designed to provide formal preparation for healthcare educators using or desiring to use simulation pedagogy to teach learners in health professions programs and practice settings. The program is delivered primarily via distance education with a three day on site experience during the summer. To be successful in an online delivered program like this, students should possess excellent time management and computer/Internet literacy skills. In addition, students must have regular access to a computer with reliable/high-speed Internet. Two courses will last 15 weeks. The summer course is a 7-week course. Students should plan to spend a minimum of 2.5-3 hours per credit weekly on classwork and interaction with other students and the instructor.

Application Deadline
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- July 15 (fall admission only)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits or the last 60 credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. Complete the Apply to the Healthcare Simulation Certificate Online Graduate Program form.

Certificate Requirements
Graduate Certificate in Healthcare Simulation
Course Number and Title Credits
N-SIM 501 Educational Simulation Methods 3
N-SIM 502 Operations in Healthcare Simulation 3
N-SIM 503 Simulation Practicum 3
Total 9

Course Offerings
NURS—Nursing
NURS 502 FOUNDATION OF KNOWLEDGE AND THEORY FOR ADVANCED NURSING (3-0-3)(F/S). Critique, evaluate, and utilize conceptual and theoretical models in advanced nursing practice. Emphasis on linking theories with nursing. PREREQ: Admission to Graduate Program in Nursing or PERM/INST.
NURS 504 (MHLTHSCI 504) HEALTH CARE ECONOMICS, FINANCING AND DELIVERY (3-0-3)(F/S). Differentiates health care economics, financing and payment systems as context for fiscal management and budgeting; examines health care delivery from organizational and operational perspectives, all of which are applied in writing proposals. May be taken for NURS or MHLTHSCI credit, but not both. PREREQ: Admission to Graduate Program in Nursing or Master of Health Science Program or PERM/INST.
NURS 508 ADVANCED RESEARCH AND SCHOLARLY INQUIRY FOR NURSING (3-0-3)(F/S). Apply research methods for utilization in advanced nursing roles. PREREQ: NURS 502 or PERM/INST.
NURS 510 ADVANCED PHYSIOLOGY AND PATHOPHYSIOLOGY (3-0-3) (F/S/SU). Examines advanced physiologic and pathophysiologic principles, commonly encountered in advanced nursing practice, that affect health states in individuals across the lifespan. PREREQ: Admission to the Graduate Program in Nursing or PERM/INST.
NURS 512 ADVANCED NURSING LEADERSHIP IN HEALTH CARE (3-0-3)(F/S). Focuses on individual character and leadership development and emphasizes the knowledge and skills necessary to be an effective nurse leader in a variety of academic or health care settings. Builds on the AACN Essentials and the AONE competencies for Nurse Executives. PREREQ: Admission to Graduate Program in Nursing or Master of Health Science Program or PERM/INST.
NURS 514 ORGANIZATIONAL LEADERSHIP FOR ADVANCED NURSING PRACTICE (3-0-3)(F/S). Focuses on the role of the nurse leader in advancing organizational change with an emphasis on theoretical application and data driven analysis to improve institutional effectiveness and efficiency. Builds on the AACN Essentials and the AONE competencies for Nurse Executives. PREREQ: NURS 512 or PERM/INST.
NURS 516 ADVANCED PHARMACOTHERAPEUTICS (3-0-3)(F/S/SU). Examines advanced pharmacodynamics, pharmacokinetics, pharmacologic principles and clinical application of pharmaceutical agents used to treat acute and chronic conditions including therapeutic evaluation and considerations for diverse adult and geriatric patient populations. PREREQ: NURS 510.
NURS 522 CONCEPTS OF POPULATION NURSING IN HEALTH SYSTEMS (3-0-3)(SU). Examines the philosophy and framework for health promotion and disease prevention, health care delivery, affecting policy, and advanced nursing roles with diverse populations. PREREQ: Admission to Graduate Program in Nursing or PERM/INST.

NURS 524 THEORY- GUIDED ASSESSMENT AND PLANNING (2-0-2)(F/S). Integrates assessment and planning with theoretical frameworks for health promotion and disease prevention with a specific population. PREREQ: NURS 502, NURS 522. COREQ: NURS 525 or PERM/INST.

NURS 525 THEORY- GUIDED ASSESSMENT AND PLANNING PRACTICUM (0-6-2)(F/S). Application of theory-guided assessment and planning process with selected populations. PREREQ: NURS 502, NURS 522, PREREQ/ COREQ: NURS 524 or PERM/INST.

NURS 526 THEORY- GUIDED IMPLEMENTATION AND EVALUATION (2-0-2)(F/S). Integrates concepts of program development, implementation and evaluation based on theoretical and methodological applications for advanced nursing practice. PREREQ: NURS 524. COREQ: NURS 527 or PERM/INST.

NURS 527 THEORY- GUIDED IMPLEMENTATION AND EVALUATION PRACTICUM (0-6-2)(F/S). Application of theory-guided and evidence-based program planning and outcome evaluation with selected populations. PREREQ: NURS 525. PREREQ/COREQ: NURS 526 or PERM/INST.

NURS 528 PROFESSIONAL ROLES FOR ADVANCED NURSING PRACTICE (1-0-1)(F/S). Culminating seminar that integrates the functions and activities of advanced nursing practice into professional roles. PREREQ: Admission to Graduate Program in Nursing or PERM/INST.

NURS 530 PROMOTING LEARNING IN NURSING EDUCATION WITH POPULATIONS (2-0-2)(F/S). Explores and applies learning theories and instructional design principles to promote learning with a selected population. Evaluates strategies for assessing learning and effective teaching. PREREQ: Admission to Graduate Program in Nursing or PERM/INST.

NURS 532 LEADERSHIP FOR ADVANCED NURSING PRACTICE (3-0-3)(F/SSU). Formulates leadership, management, and negotiation skills for advanced practice nurses to achieve improved health outcomes for individuals, communities, and systems. PREREQ: NURS 502.

NURS 534 DIAGNOSIS AND MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS (3-0-3)(F/SSU). Integrates broad principles of scientific and nursing principles of therapeutic decision-making to assess, diagnose, and manage common health issues across the adult lifespan with emphasis on needs and care of geriatric and diverse populations. PREREQ: NURS 518, NURS 519, and NURS 520.

NURS 535 DIAGNOSIS AND MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS CLINICAL (0-8-2)(F/SSU). Integrates theory with therapeutic decision-making for adult populations across the lifespan with common health conditions within acute or primary health care settings. PRE/Coreq: NURS 534.

NURS 536 ACUTE CARE MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS (4-0-4)(F/SSU). Advances student’s knowledge and therapeutic decision-making skills to assess, diagnose, and manage care for adult and geriatric populations with complex acute, critical, and chronic health conditions in the acute care setting using evidence-based, patient-centered care management. PREREQ: NURS 534 and NURS 535, or admission to an AGNP Graduate Certificate Program, or PERM/INST.

NURS 537 ACUTE CARE MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS I CLINICAL (0-8-2)(F/SSU). Fosters development and application of expanded therapeutic and interventional skills to assess, diagnose, and manage care for adult and geriatric populations with complex acute, critical, and chronic health conditions in the acute care setting. PRE/Coreq: NURS 536.

NURS 538 ACUTE CARE MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS II (4-0-4)(F/SSU). Synthesis of therapeutic skills to assess, diagnose, and manage care for adult and geriatric populations with complex acute, critical, and chronic health conditions in the acute care setting using evidence-based, patient-centered care management. PREREQ: NURS 536 and NURS 537.

NURS 539 ACUTE CARE MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS II CLINICAL (0-8-2)(F/SSU). Synthesis and application of advanced therapeutic and interventional skills to assess, diagnose, and manage care for adult and geriatric populations with complex, acute, critical, and chronic health conditions in the acute care setting. PRE/Coreq: NURS 538.

NURS 541 ACUTE CARE CLINICAL RESIDENCY (0-12-3)(F/SSU). Theoretical, clinical, and scientific principles are synthesized and implemented in acute care setting. Provides comprehensive adult-geriatric health and illness care, therapeutic interventions, and evaluation of patients with complex, acute, critical, and chronic illness problems. PREREQ: NURS 538 and NURS 539.

NURS 542 PRIMARY MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS (4-0-4)(F/SSU). Advances student’s knowledge and therapeutic decision-making skills to assess, diagnose, and manage care for adult and geriatric populations in the primary care setting using evidence-based, patient centered care management of stable, chronic, and acute episodic illness. PREREQ: NURS 534 and NURS 535, or admission to an AGNP Graduate Certificate Program, or PERM/INST.

NURS 543 PRIMARY MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS I CLINICAL (0-8-2)(F/SSU). Fosters development and application of expanded therapeutic and interventional skills to assess, diagnose, and manage care for adult and geriatric populations with stable, chronic, and acute episodic illness, in the primary care setting. PRE/Coreq: NURS 542.

NURS 544 PRIMARY MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS II (4-0-4)(F/SSU). Synthesis of therapeutic skills to assess, diagnose, and manage care for adult and geriatric populations in the primary care setting using evidence-based, patient-centered care management of stable, chronic, and acute episodic illness. PREREQ: NURS 542 and NURS 543.

NURS 545 PRIMARY MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS III CLINICAL (0-8-2)(F/SSU). Synthesis and application of advanced therapeutic and interventional skills to assess, diagnose, and manage care for adult and geriatric populations with stable, chronic, and acute episodic illness in the primary care setting. PREREQ: NURS 542 and NURS 543.

NURS 547 PRIMARY CARE CLINICAL RESIDENCY (0-12-3)(F/SSU). Theoretical, clinical, and scientific principles of adult-gerontology nurse practitioner practice are synthesized and implemented. Provides comprehensive adult-geriatric health and illness care, therapeutic interventions, and evaluation of patients in primary care settings. PREREQ: NURS 544 and NURS 545.

NURS 549 ACUTE CARE PROCEDURES AND DIAGNOSTICS FOR THE ADVANCED PRACTICE NURSE (0-8-2)(F/SSU). Development and application of advanced acute care procedure and diagnostic skills in clinical/laboratory settings. PREREQ: NURS 534 and NURS 535, or admission to an AGNP Graduate Certificate Program, or PERM/INST.

NURS 551 PRIMARY MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS III CLINICAL (0-8-2)(F/SSU). On-campus clinical experience to assess the capacity of the primary care nurse practitioner student to provide holistic advanced nursing care to the adult-geriatric patient and submission of a final residency plan. PREREQ: NURS 544 and NURS 545.

NURS 557 ACUTE CARE CLINICAL SKILLS SYNTHESIS (0-8-2)(SU). On-campus clinical experience to assess the capacity of the acute care nurse practitioner student to provide holistic advanced nursing care to the adult-geriatric patient and submission of a final residency plan. PREREQ: NURS 538 and NURS 539.

NURS 560 SCHOLARLY SYNTHESIS (2-0-2)(F/SSU). Synthesis of current knowledge focused in clinical area of study. PRE/Coreq: NURS 541 or NURS 547.
NURS 562 GRADUATE NURSING EDUCATION (2-0-2)(F/S/SU). Explores graduate nursing education options for MS, DNP, and PhD degrees. Aids in understanding roles available to graduates with advanced nursing degrees, e.g., AGNP, FNP, CNS, CRNA, Midwife, Educator-academic, Educator-practice, Leader, Researcher. PREREQ: PERM/INST.

NURS 601 SCHOLARLY PROJECT I (0-8-2)(F/S/SU). Assessment and identification of nursing practice issue focused on a population of interest that lays the groundwork for development of the culminating scholarly project while investigating the DNP role. This course includes at least 16 hours of formalized discussion with faculty advisor per semester. (Pass/Fail.) PREREQ: NURS 604.

NURS 602 ADVANCED PRINCIPLES OF POPULATION HEALTH NURSING (3-0-3)(F/S/SU). Analyses impact of social, cultural, ecological, and systems of care delivery factors on health care disparities across population groups. Evaluates the DNP role in disease prevention and health promotion for populations, utilizing a social, justice framework; explores the impact of globalization on health care and health care planning, and the need to design health care systems that are responsive to diverse cultural needs. PREREQ: Admission to DNP Program or PERM/INST.

NURS 603 SCHOLARLY PROJECT II (0-8-2)(F/S/SU). Immersive practice experience with a population of interest that includes planning of the culminating scholarly project and examination of DNP role within a health care system. Includes at least 16 hours of formalized discussion with faculty advisor per semester. An oral proposal of the project must be approved by the supervisory committee to satisfactorily complete the course. (Pass/Fail.) PREREQ: NURS 601.

NURS 604 DESIGNING MODELS OF HEALTH CARE DELIVERY (3-0-3)(F/S/SU). Synthesizes evidence, theories, and scientific principles to create new individual, aggregate, and population health care delivery models and approaches. Comprehensive program planning knowledge and analytical skills will be used to evaluate and ameliorate the interactions between complex practice, organization/system, population, policy, economic, and political issues affecting diverse populations and practice settings. PREREQ: Admission to DNP Program or PERM/INST.

NURS 605 SCHOLARLY PROJECT III (0-8-2)(F/S/SU). Immersive practice experience with a population of interest that includes implementation of scholarly project and role of the DNP. Includes at least 16 hours of formalized discussion with faculty advisor per semester. (Pass/Fail.) PREREQ: NURS 603.

NURS 608 HEALTH CARE POLICY AND ADVOCACY (3-0-3)(F/S/SU). Prepares students to analyze, influence, develop, and implement health related policies at all levels. Focused on principles and strategies to influence policymakers, leadership, stakeholders, and advocacy efforts for health care consumer populations, providers, systems of care, and other stakeholders in policy and public forums.

NURS 609 HEALTH CARE POLICY AND ADVOCACY APPLICATION (0-8-2)(F/S/SU). Provides the student the opportunity to experience leadership and professional development alongside an experienced local, regional or national health care policy leader. (Pass/Fail.) PRE/COREQ: NURS 608.

NURS 610 LEADERSHIP FOR ORGANIZATIONS, SYSTEMS, AND POPULATIONS (3-0-3)(F/S/SU). Prepares the DNP student to assume an advanced leadership role in complex health care systems, to assess and transform practice environments, and enhance the quality of inter-professional health care delivery systems. Examines the impact of cultural, ethical, and economic factors on leading change in health care organizations. PREREQ: NURS 614.


NURS 614 OUTCOMES MANAGEMENT ANALYSIS (3-0-3)(F/S/SU). Analysis and application of epidemiological, bio-statistical, environmental, and other data related to individual, aggregate, and population health. Emphasis on business and economic processes for analysis of cost effective health care outcomes. PREREQ: Graduate level statistics or equivalent and NURS 602.

NURS 616 HEALTH CARE TECHNOLOGY, INFORMATION SYSTEMS, AND QUALITY (3-0-3)(F/S/SU). Prepares students to use evidence and advanced knowledge of technology to lead improvements in communication and the monitoring, collection, management, analysis, and dissemination of information that enhances health and health care safety and quality. Focused on design, selection, use, and evaluation of legal, ethical, just, and cost-effective information-management processes to evaluate health and practice outcomes in diverse, aggregate-focused, advanced practice settings. PREREQ: Admission to the DNP program.

NURS 618 QUALITY IMPROVEMENT AND EVALUATION METHODOLOGY (3-0-3)(F/S/SU). Appraises the study, understanding, and challenges of quality care measurement and improvement to assure high quality health care outcomes in practice, systems of care, organizations and communities, and populations. Uses evidence, research, and outcome information to improve nursing practice, care-delivery models, and health care systems. PREREQ: NURS 602.

NURS 620 SCHOLARLY INQUIRY AND ADVANCED EVIDENCE-BASED PRACTICE (3-0-3)(F/S/SU). Examines foundational and philosophical aspects of nursing science related to the role of the DNP. Uses applied research methods and design of health care research and evidence-based practice related to advanced clinical scholarship to examine relevance to nursing and health care practice. PREREQ: Admission to DNP Program or PERM/INST.

NURS 621 SCHOLARLY PROJECT IV (0-8-2)(F/S/SU). Culminating immersive practice experience with a population of interest that includes evaluation of the scholarly project, written report of completed work and appraisal of the role of the DNP. An approval of supervisory committee at end of course. (Pass/Fail.) PREREQ: NURS 605.

NURS 622 FINANCIAL STRATEGIES FOR NURSE LEADERS (3-0-3)(F/S/SU). Examines advanced economic principles within the context of the U.S. healthcare system and utilizes advanced application of health care financial strategies for nurse leaders including key financial principles, cost benefit analysis, and budgeting. PREREQ: NURS 614.

NURS 623 SCHOLARLY EXPERIENCE (1-3 VARIABLE)(F/S/SU). Elective course with variable credits for those students who need additional hours to satisfy American Association of Colleges of Nursing (AACN) 1000 hour requirement for DNP education. May repeat course as needed. (Pass/Fail). PREREQ: Admission to DNP program.

N-SIM—Nursing Simulation

N-SIM 501 EDUCATIONAL SIMULATION METHODS (3-0-3)(F). Introduces key theories and principles of simulation teaching to healthcare learners. Includes methods for integrating simulation teaching into curricula, scenario development, debriefing techniques, teaching methodology, and interprofessional collaboration. Emphasizes skills and knowledge applicable to both clinical and academic educational settings. PREREQ: ADM/PROG.

N-SIM 502 OPERATIONS IN HEALTHCARE SIMULATION (3-0-3)(S). Examines initiation and management of simulation programs/centers. Includes policy development, scheduling, equipment selection, technology considerations, financial management, and the simulation center accreditation process. Emphasizes the responsibility of the operations specialist in preparing the scenario environment, moulage, and facilitating scenarios with faculty. PREREQ: ADM/PROG or PERM/INST.

N-SIM 503 SIMULATION PRACTICUM (3-0-3)(SU). Application and development of educational and operational teaching techniques in a simulation center setting. Includes pilot testing of scenario development from N-SIM 501, debriefing techniques, peer review, and outcome assessments. Opportunity for practical experience with standardized patients, emerging simulation technologies, and simulation center standards. PREREQ: N-SIM 501.
Department of Organizational Performance and Workplace Learning

College of Engineering
Chair: Anthony Marker
Charles P. Ruch Engineering Building, Room 327
(208) 426-1312 or (208) 426-2489 (phone)
opwlgrad@boisestate.edu (email)
https://opwl.boisestate.edu (website)

Graduate Faculty: Chyung, Giacumo, Marker, Stieha, Villachica, Winiecki

Graduate Degrees Offered

- Master of Science in Organizational Performance and Workplace Learning
- Graduate Certificate in Workplace E-Learning and Performance Support
- Graduate Certificate in Workplace Instructional Design
- Graduate Certificate in Workplace Performance Improvement

General Information

The Master of Science in Organizational Performance and Workplace Learning is designed to prepare individuals for careers in instructional design, performance improvement, training and development, management, workplace e-learning, human resources, organizational development, and performance consulting. The program helps individuals acquire a broad range of knowledge and skills required to identify, analyze, and solve a variety of human and organizational performance problems in settings such as business and industry, the military, government agencies, and nonprofit organizations. In this program, students learn to how to think strategically and design interventions that will address all of the factors required to achieve desired results.

The Graduate Certificate in Workplace E-Learning and Performance Support is designed for individuals who wish to advance their skills in developing and managing e-learning and performance support in the workplace. This program emphasizes the competencies required to design, develop, and manage workplace e-learning and performance support systems.

The Graduate Certificate in Workplace Instructional Design is for individuals who wish to expand their skills in designing and developing training programs that improve workplace performance. This program emphasizes the development of advanced instructional design skills required to create effective training programs for workplace settings.

The Graduate Certificate in Workplace Performance Improvement is designed for individuals who seek to develop skills in diagnosing and solving performance problems in the workplace. This program emphasizes the practical application of process models, tools, and techniques to workplace performance improvement situations.

Online Courses

All courses are conducted online via Blackboard. Courses taught in this medium enable students to engage in ‘threaded’ discussions that promote a high level of interaction between instructor and students and among class members.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A statement of purpose, which should meet the following requirements:
3. Heading that includes name, email address, telephone and the program(s) to which the applicant is applying
4. 500-1,000 words, single-spaced
5. Addresses career goals and how the coursework for the program or programs will help attain those goals
6. Explains the strategies the applicant will use to be successful in online graduate study
7. Meeting the evaluation criteria outlined on the OPWL website (http://opwl.boisestate.edu)
8. A current résumé.
9. Applicants must demonstrate a fit between their career goals and the OPWL program to which they are applying. Those who do not meet the above requirements may be admitted by submitting a letter of petition to the Program Coordinator. The letter of petition should address why you were unable to maintain a 3.00 GPA during your undergraduate studies and why you will be successful in your graduate study.

Graduate Assistantships

A limited number of part-time “virtual” graduate assistantships are available each academic year and include an hourly wage and a waiver of fees. Graduate assistants must be fully admitted into the OPWL master’s degree program. Part-time assistants work 10 hours per week, enroll in a minimum of and receive a fee waiver for 5 credits each semester, and an hourly wage (totaling approximately $5000) paid out over fall and spring semesters. Applications are available from the OPWL office and Graduate College offices and websites.

MASTER OF SCIENCE IN ORGANIZATIONAL PERFORMANCE AND WORKPLACE LEARNING

Graduate Program Coordinator: Anthony Marker
Charles P. Ruch Engineering Building, Room 327
(208) 426-1312 or (208) 426-2489 (phone)
opwlgrad@boisestate.edu (email)
https://opwl.boisestate.edu (website)

Degree Requirements

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<td>OPWL 530 Evaluation</td>
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<tr>
<td>OPWL 535 Principles of Adult Learning</td>
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<tr>
<td>OPWL 536 Foundations of Organizational Performance and Workplace Learning</td>
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<tr>
<td>OPWL 537 Instructional Design</td>
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<tr>
<td>OPWL 560 Workplace Performance Improvement</td>
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<tr>
<td>OPWL 531 Quantitative Research In Organizations</td>
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<tr>
<td>OPWL 532 Ethnographic Research In Organizations</td>
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<tr>
<td>OPWL 593 Thesis (6 cr)</td>
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Total: 36
Simultaneous Enrollment in Graduate Programs
A student may be simultaneously enrolled in the Master of Science in OPWL program and one of the graduate certificate programs with approval from the OPWL Graduate Coordinator and the Graduate Dean. A student who is not enrolled in the Master of Science in OPWL program may be simultaneously enrolled in two of the graduate certificate programs with approval from the OPWL Graduate Coordinator and the Graduate Dean. Simultaneous enrollment in more than two graduate programs is prohibited.

GRADUATE CERTIFICATE IN WORKPLACE INSTRUCTIONAL DESIGN
Graduate Program Coordinator: Anthony Marker
Charles P. Ruch Engineering Building, Room 327
(208) 426-1312 or (208) 426-2489 (phone)
opwlgrad@boisestate.edu (email)
https://opwl.boisestate.edu (website)

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>OPWL 535 Principles of Adult Learning</td>
<td>4</td>
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<td>OPWL 536 Foundations of Organizational Performance and Workplace Learning</td>
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</tr>
<tr>
<td>OPWL 537 Instructional Design</td>
<td>4</td>
</tr>
</tbody>
</table>

Select two from the following:
- OPWL 523 Rapid E-Learning Development
- OPWL 525 E-Learning Principles and Practices
- OPWL 538 Instructional Strategies
- OPWL 547 Advanced Instructional Design for the Workplace
- OPWL 551 E-Learning Content Design
- OPWL 577 Change Management

Total: 18

Simultaneous Enrollment in Graduate Programs
A student may be simultaneously enrolled in the Master of Science in OPWL program and one of the graduate certificate programs with approval from the OPWL Graduate Coordinator and the Graduate Dean. A student who is not enrolled in the Master of Science in OPWL program may be simultaneously enrolled in two of the graduate certificate programs with approval from the OPWL Graduate Coordinator and the Graduate Dean. Simultaneous enrollment in more than two graduate programs is prohibited.

Course Offerings
OPWL—Organizational Performance and Workplace Learning
OPWL 516 FOUNDATIONS OF PROFESSIONAL DEVELOPMENT (1-0-1)(F/S). Provides a career coaching experience for emerging and second career professionals pursuing job opportunities in the OPWL workplace. Includes job targeting, course planning, opportunity pursuit, and reflection. Explores ways to continue working on professional development outside the classroom.

OPWL 517 (ENGL 538) WRITING IN PROFESSIONS (3-0-3)(F). Overview of communication practices and standards in workplace settings. Topics include editing and revision, research and citation practices, social and cultural aspects of technical communication, workplace-writing style, and common documents produced in business and industry, such as proposals, informal reports, formal reports, and prospectuses. Not for credit toward degrees from the English department. May be taken for ENGL or OPWL credit, but not both. PREREQ: PERM/INST.
OPWL 523 RAPID E-LEARNING DEVELOPMENT (3-0-3)(F,SU).
Through hands-on practice, students develop skills in using rapid e-learning development software to create interactive multimedia e-learning content for improving workplace learning and performance. Students develop various types of e-learning content such as demonstration, technical simulation, and scenario-based learning. PRE/Coreq: OPWL 536.

OPWL 525 E-LEARNING PRINCIPLES AND PRACTICES (3-0-3) (F,SU). Students will learn foundational principles for implementing e-learning solutions. Students will evaluate e-learning demo programs and study the use of reusable learning objects, sharable content objects, metadata and e-learning standards in the current e-learning practice. Students will develop sample multimedia learning objects and implement them on a learning management system. PRE/coreq: OPWL 536.

OPWL 529 NEEDS ASSESSMENT (4-0-4)(F/S). Through analysis of case studies, guided practice, field work, and other methods, students learn to use tools, data, and systematic methods to identify and assess current or future performance problems and their causes, and help decision makers target critical problems with feasible solutions. Students will conduct an authentic project. PreReq: OPWL 536.

OPWL 530 EVALUATION (4-0-4)(F/S). Students learn how to conduct formative and summative evaluations of instructional or performance improvement programs implemented in organizations. Students explore principles, models, and frameworks for evaluation, and conduct a full-scale evaluation, working with real clients and stakeholders. PRE: OPWL 536.

OPWL 531 QUANTITATIVE RESEARCH IN ORGANIZATIONS (3-0-3) (F,SU). Students learn how to design research and apply statistical analysis methods to conduct quantitative studies in organizational contexts. Students also review various empirical research reports in order to become educated consumers of research and contribute to improving organizational performance. PRE/Req: OPWL 536 or PERM/INST.

OPWL 532 ETHNOGRAPHIC RESEARCH IN ORGANIZATIONS (3-0-3)(S,SU). Ethnography is an approach to learning about the social and cultural life of communities, organizations, institutions and other settings that discovers how the activities of people in those settings contribute to the creation of society and culture. Students receive a foundation in philosophical perspectives and methods supporting ethnographic research, learn when to conduct ethnographic research, and explore strategies for presenting and critiquing ethnographic research. They will also be provided with an opportunity to implement ethnographic research in organizational settings. PRE/Req: OPWL 536 or PERM/INST.

OPWL 535 PRINCIPLES OF ADULT LEARNING (4-0-4)(F,SU). Students explore how contemporary adult learning theories and practices are applied to the field of instructional and performance technology, particularly with respect to the instructional design process. They will investigate methods, strategies and technologies specific to adult learners that are known to affect learning outcomes. Students will apply adult learning principles to real workplace problems.

OPWL 536 FOUNDATIONS OF ORGANIZATIONAL PERFORMANCE AND WORKPLACE LEARNING (4-0-4)(F,S,U). Students study historical foundations, prominent people, and events that contributed to the development of the fields of workplace learning and performance improvement. Students apply relevant theories and models to real or realistic organizational situations in industry, government, military, and non-profit settings.

OPWL 537 INSTRUCTIONAL DESIGN (4-0-4)(F,S). This course gives an overview of several models for instructional systems design and examines the processes involved in designing effective instructional interventions. Working with a real client, students conduct a full-scale instructional design project in phases over the duration of the course. Prereq: OPWL 535 and OPWL 536.

OPWL 538 INSTRUCTIONAL STRATEGIES (3-0-3)(SU)(Odd years).
Instructional strategies are prescriptive patterns that guide the task of designing learning activities. Students will identify and experiment with several types of instructional strategies. Given a variety of instructional needs, students will practice selecting and implementing appropriate strategies. Prereq/ Coreq: OPWL 536.

OPWL 547 ADVANCED INSTRUCTIONAL DESIGN FOR THE WORKPLACE (3-0-3)(SU)(Even years). Students engage in authentic instructional design activities as part of a community of practice. Activities include analyzing instructional design problems, creating instructional design products in ways that decrease development time and improve quality, working within diverse teams, and giving and receiving constructive feedback. Prereq: OPWL 537 or Perm/inst.

OPWL 550 BLENDED LEARNING FOR PERFORMANCE IMPROVEMENT (3-0-3)(F,S,U). Students investigate various learning technologies that can contribute to the building and sharing of individual and organizational knowledge. Based on analysis of learners’ performance needs, students design blended approaches to improving workplace learning and performance by combining face-to-face learning and e-learning. Prereq/ Coreq: OPWL 536.

OPWL 551 E-LEARNING CONTENT DESIGN (3-0-3)(SU). Students learn to apply the principles of instructional design to the design of interactive, multimedia, self-paced content within the context of workplace e-learning and performance support. Pre/coreq: OPWL 536.

OPWL 560 WORKPLACE PERFORMANCE IMPROVEMENT (4-0-4) (F,S). Students examine the process models, non-instructional solutions, professional practice issues, and future trends of performance improvement which aim to improve performance in the workplace. In a hands-on project, students practice applying the performance improvement process to design effective performance solutions. Prereq: OPWL 536, and OPWL 529 or OPWL 530.

OPWL 577 CHANGE MANAGEMENT (3-0-3)(SU)(Odd years). Students will learn basic principles related to the top-down and bottom-up change processes, and analytical and planning tools that can be used to facilitate change within an organization. Students will practice applying those principles and tools in real organizational situations. Pre/coreq: OPWL 536.

OPWL 578 DESIGNING SUSTAINABLE ORGANIZATIONS (3-0-3) (SU)(Even years). Students will learn basic principles related to helping organizations plan, implement, and evaluate business practices that are environmentally, socially, and financially balanced. The course combines principles of design, systems thinking, change management, and evaluation. Pre/coreq: OPWL 536.

SELECTED TOPICS (1-0-1)(F/S/SU):
OPWL 584 SELECTED TOPICS: MENTORING PROGRAMS IN ORGANIZATIONAL PERFORMANCE AND WORKPLACE LEARNING (1-0-1)(F). Incorporates using a human performance improvement process to determine mentoring program feasibility in an organization. Students experience the benefits and challenges of mentoring relationships. Students establish a mentor-mentee relationship. Students develop evidence-based program planning with a simulated or authentic client.

OPWL 585 THINKING IN SYSTEMS
OPWL 586 PROFESSIONAL ETHICS
OPWL 587 EVIDENCE BASED PRACTICE
OPWL 588 LIBRARY SKILLS FOR RESEARCH
OPWL 589 VIRTUAL TEAMS
Department of Physics

College of Arts and Sciences

Chair: Charles Hanna
Multipurpose Classroom Facility, Room 420
(208) 426-3775 (phone)
(208) 426-4330 (fax)
physics@boisestate.edu (email)

Graduate Faculty: Ferguson, Fologea, Hanna, Kim, Macomb, Tenne

Interdisciplinary Programs
- Doctor of Philosophy in Biomolecular Sciences
- Doctor of Philosophy in Materials Science and Engineering
- Master of Engineering in Materials Science and Engineering
- Master of Science in Biomolecular Sciences
- Master of Science in Materials Science and Engineering

General Information
The Department of Physics is a primary participant in the offering of the master's and doctoral programs in materials science and engineering, and the doctoral program in biomolecular sciences. Please see the interdisciplinary program section of this catalog for further details.

Course Offerings

PHYS—Physics

PHYS 504 MOLECULAR AND CELLULAR BIOPHYSICS (4-0-4)(F/S).
An advanced introduction to biophysical methods and concepts, focused on developing an in-depth understanding of the functionality of biological systems at the molecular and cellular level. Topics include the biophysical properties of water and solutions, the characterization of biomolecular interactions, the biological relevance of the physical properties of biomolecules, the role of physical interactions in driving the self-assembly and conformational changes of biomolecules, membrane transport, molecular and cellular motility, and biophysical aspects of cell function. PREREQ: MATH 170; PHYS 112 or PHYS 212; PHYS 307, or BIOL 320 and either CHEM 350 or CHEM 431.

PHYS 512 INTERMEDIATE QUANTUM MECHANICS (4-0-4)(F).
Fundamentals, including properties and solutions of the Schroedinger equation, operators, angular momentum, electron spin, perturbations, and variational principle. Applications, such as tunneling, orbitals, magnetic resonance, and nanoscale effects. PREREQ: Graduate standing, PHYS 309.

PHYS 515 SOLID STATE PHYSICS (3-0-3)(S).
Quantum physics applied to understanding the properties of materials, including semiconductors, metals, superconductors, and magnetic systems. PREREQ: Graduate standing, PHYS 309.

PHYS 520 NANOBIOTECHNOLOGY (3-0-3)(F/S).
An introduction to the biological and biomedical uses of nanotechnology, including the nature and applications of nanostructures to cell biology, imaging, biosensors, medical therapy (including anti-cancer therapies and drug delivery), and biotechnology. PREREQ: BIOL 191, CHEM 112, MATH 170, PHYS 307; PHYS 112 or PHYS 212; PHYS 309, or BIOL 320 and either CHEM 350 or CHEM 431.

PHYS 523 PHYSICAL METHODS OF MATERIALS CHARACTERIZATION (3-0-3)(F).
Physical principles and practical methods used in determining the structural, electronic, optical, and magnetic properties of materials. Optical, electron, and scanning microscopies, diffraction, surface analysis, optical spectroscopy, electrical transport, and magnetometry. PREREQ: Graduate Standing, PHYS 309.

PHYS 524 MEMBRANE BIOPHYSICS (3-0-3)(F/S).
Membranes are of fundamental importance for biological systems due to their roles in cellular compartmentalization, signal transduction, metabolism, and energy synthesis. Topics include structures and functions of membrane bilayers and membrane proteins, physics of membrane fusion, and mechanisms of cell signaling and energy transduction. PREREQ: PHYS 504.

PHYS 530 OPTICS (3-0-3)(S).
Geometrical and physical optics, including lenses, fiber optics, Fourier optics, polarization, interference, diffraction, lasers, and holography. PREREQ: Graduate standing, PHYS 309. COREQ: PHYS 530L.

PHYS 530L OPTICS LABORATORY (0-3-1)(S).
Laboratory to be taken concurrently with PHYS 530. Experiments in optics, including optical systems, thick lenses, interference, diffraction, Fourier optics, image processing, and holography. COREQ: PHYS 530.

PHYS 532 THERMAL PHYSICS (4-0-4)(F).
Foundations and applications of thermodynamics and statistical mechanics, including temperature, entropy, heat capacity, chemical potential, and free energies. Applications to gases, paramagnets, chemical systems, electrons, photons, phonons, and superfluids. PREREQ: Graduate standing, PHYS 309.

PHYS 536 SOFT MATTER (3-0-3)(F)(Odd years).
Introduction to the physical principles underlying the properties and behaviors of soft matter, including polymers, gels, colloids, and liquid crystals. Examples of soft matter include glues, paints, soaps, rubber, foams, gelatin, milk, and most materials of biological origin. (Recommended preparation: PHYS 309.) PREREQ: Graduate standing, MATH 275, PHYS 212, and either CHEM 322 or MSE 308 or PHYS 432.

PHYS 537 RADIATION BIOPHYSICS (3-0-3)(F/S).
Physical properties and biological effects of different kinds of radiation: action of radiation on various cellular constituents: target theory, genetic effects, repair of radiation damage, physics of radiology and radiotherapy, isotopic tracers. PREREQ: PHYS 307, PHYS 309, or PERM/INST.

PHYS 545 MAGNETISM AND MAGNETIC MATERIALS (3-0-3)(F/S).
Physical principles of magnetism, properties of different types of magnetic materials, and their technological applications. Topics include magnetic moments, interactions and ordering: magnetism in metals and semiconductors; magnetic resonance, magnetoresistance, nanoscale magnetism; spintronics; magnetic recording technologies. PREREQ: PHYS 415 or PHYS 515.

PHYS 572 ELECTROMAGNETISM (3-0-3)(S).
Electromagnetic theory derived from Maxwell's equations. Applications to electromagnetic fields in materials, including dielectrics, magnetization, wave propagation through materials, stress tensors, and radiation. PREREQ: PHYS 381 or ECE 300.

PHYS 598 PHYSICS SEMINAR (1-0-1)(S).
Individual reports on selected topics. The level of the reports must reflect the additional work expected beyond that required for the undergraduate seminar. PREREQ: PERM/INST.
Political Science Program
School of Public Service
Environmental Research Building, Room 5133
(208) 426-3280 (phone)
rburkha@boisestate.edu (email)
https://sps.boisestate.edu/politicalscience (website)
Graduate Faculty: Allen, Bellenger, Burkhart, Hausegger, Kettler, Lyons, Moncrief, Utych, Wampler, Yenor

MASTERS OF ARTS IN POLITICAL SCIENCE
Graduate Program Coordinator: Ross Burkhart
Environmental Research Building, Room 5133
(208) 426-3280 (phone)
rburkha@boisestate.edu (email)
https://sps.boisestate.edu/politicalscience (website)

General Information
The Master of Arts in Political Science requires completion of a minimum of 32 credits, including three core seminars, five to seven elective seminars, one advanced quantitative methodology course, as well as eight hours of thesis work or two credit hours of comprehensive exams. When a student has completed nine credits of course work, they will work with a faculty supervisor to either develop a topic for the student’s proposed thesis or determine if comprehensive exams are the appropriate culminating activity for their degree. This meeting will typically take place in a student’s second semester.

Application Deadline
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- February 1 (fall admission only)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions Office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A personal statement describing the applicant’s background, academic interests, career goals and how our program will help them achieve these goals.
3. A 5-10 page writing sample (previous academic paper, policy brief or memo, news article or blog post, document prepared for an employer, or new sample).
4. Three letters of recommendation from faculty or supervisors.

Degree Requirements
The Master of Arts in Political Science requires completion of a minimum of 32 credits, including three core seminars, five elective seminars, one advanced quantitative methodology course, as well as eight hours of thesis work. When a student has completed 9 credits of course work, he/she will work with a thesis supervisor to develop a topic for the student’s proposed thesis. This meeting will typically take place in a student’s second semester.

<table>
<thead>
<tr>
<th>Master of Arts in Political Science</th>
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<tbody>
<tr>
<td>Course Number and Title</td>
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<tr>
<td>Credits</td>
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<tr>
<td>Select one course from the following:</td>
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<tr>
<td>POLS 508 Quantitative Research Methodology</td>
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<tr>
<td>SPS 502 Quantitative Methods for the Social Sciences</td>
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<tr>
<td>SPS 503 Qualitative Methods for the Social Sciences</td>
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<tr>
<td>Select two courses from the following:</td>
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<tr>
<td>POLS 500 American Government and Politics</td>
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<tr>
<td>POLS 505 Comparative Politics</td>
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<tr>
<td>POLS 506 World Politics</td>
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<tr>
<td>Electives*</td>
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<tr>
<td>American Politics</td>
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<tr>
<td>POLS 512 Political Parties, Campaigns, and Elections</td>
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<tr>
<td>POLS 513 American Presidency</td>
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<tr>
<td>POLS 514 Legislative Politics</td>
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<tr>
<td>POLS 516 Institutions, Citizenship, and Contemporary Thought</td>
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<tr>
<td>POLS 518 Judicial Decision Making</td>
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<tr>
<td>POLS 520 Contemporary Issues in American Politics</td>
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<tr>
<td>Comparative Politics/International Relations</td>
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<td>POLS 521 Comparative Electoral Behavior</td>
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<td>POLS 522 Comparative Political Parties</td>
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<td>POLS 523 Non-Democratic Regimes</td>
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<td>POLS 524 Politics of Inequality</td>
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<td>POLS 525 Civil War and Terrorism</td>
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<td>POLS 526 Democratization</td>
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<tr>
<td>POLS 528 Advanced International Political Economy</td>
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<td>POLS 530 State Institutions and Civil Society</td>
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<tr>
<td>POLS 531 Contemporary Issues in World Politics</td>
</tr>
<tr>
<td>Methodology</td>
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<tr>
<td>SPS 501 Social Science Research Design</td>
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<td>SPS 504 Survey Research</td>
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<tr>
<td>SPS 507 Advanced Qualitative Methods and Analysis</td>
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<tr>
<td>SPS 508 Maximum Likelihood Estimation</td>
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<td>SPS 509 Advanced Quantitative Methodology</td>
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<tr>
<td>SPS 510 Game Theory and Formal Modeling</td>
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<tr>
<td>Other Electives (maximum of six credits): Electives approved by supervisory committee.</td>
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<tr>
<td>Culminating Activity</td>
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<tr>
<td>POLS 593 Thesis (8 cr) or POLS 690 Master’s Comprehensive Examination (2 cr)</td>
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<tr>
<td>Total</td>
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<td>32</td>
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</tbody>
</table>

*Students must complete at least two of the following courses before they can begin electives: POLS 500, POLS 505, POLS 506. Students may not take more than 3 credits from workshops.
## Course Offerings

### POLS—Political Science

**POLS 500 AMERICAN GOVERNMENT AND POLITICS (3-0-3)(F/S).** Examination of theoretical and methodological approaches used to explain institutional, political culture and political processes throughout the American regime. PREREQ: Graduate Standing or PERM/INST.

**POLS 505 COMPARATIVE POLITICS (3-0-3)(F/S).** This seminar focuses on the principal theoretical, methodological and analytical approaches developed in the subfield of comparative politics to explain variation in economic development, regime type, and state capacity. PREREQ: Graduate Standing or PERM/INST.

**POLS 506 WORLD POLITICS (3-0-3)(F/S).** Examination of theoretical and methodological approaches in understanding relations between state, sub-national, non-state, and international actors. PREREQ: Graduate Standing or PERM/INST.

**POLS 508 QUANTITATIVE RESEARCH METHODOLOGY (3-0-3)(F/S).** This seminar provides instruction on bivariate and multivariate modeling of political behavior.

**POLS 512 POLITICAL PARTIES, CAMPAIGNS, AND ELECTIONS (3-0-3)(F/S).** This seminar studies theoretical and methodological approaches useful in understanding the roles political parties play in politics and policy making and the structure and function of campaigns and elections. PREREQ: Graduate Standing or PERM/INST.

**POLS 513 AMERICAN PRESIDENCY (3-0-3)(F/S).** This seminar provides a multi-faceted examination of the contending approaches to the study of the American presidency. PREREQ: Graduate Standing or PERM/INST.

**POLS 514 LEGISLATIVE POLITICS (3-0-3)(F/S).** Semester analyzes the structure and function of legislatures at the state and national level. PREREQ: Graduate Standing or PERM/INST.

**POLS 516 INSTITUTIONS, CITIZENSHIP, AND CONTEMPORARY THOUGHT (3-0-3)(F/S).** Examines liberal thought through writings of classical, Progressive and contemporary liberals with emphasis on political institutions, relation of individual to community, the basis of human rights and the basis for political justification and obligation. PREREQ: Graduate Standing or PERM/INST.

**POLS 518 JUDICIAL DECISION MAKING (3-0-3)(F/S).** Analysis of the theoretical arguments and empirical evidence surrounding the determinants of judicial decisions, with particular emphasis on the decisions made by appellate court judges. PREREQ: Graduate Standing or PERM/INST.

**POLS 520 CONTEMPORARY ISSUES IN AMERICAN POLITICS (3-0-3)(F/S).** Examination of theoretical and methodological approaches to understanding recent developments in American politics. Students to explore areas of contemporary relevance that fall beyond or across the scope of other courses in the degree program. May be repeated for credit. PREREQ: Graduate Standing or PERM/INST.

**POLS 521 COMPARATIVE ELECTORAL BEHAVIOR (3-0-3)(F/S).** Examination of factors that affect vote choice across countries in a comparative context. PREREQ: Graduate Standing or PERM/INST.

**POLS 522 COMPARATIVE POLITICAL PARTIES (3-0-3)(F/S).** Examination of the theoretical and empirical foundations of party behavior in a comparative context. PREREQ: Graduate Standing or PERM/INST.

**POLS 523 NON-DEMOCRATIC REGIMES (3-0-3)(F/S).** Analysis of the theoretical and empirical foundations of non-democratic rule in a comparative context. PREREQ: Graduate Standing or PERM/INST.

**POLS 524 POLITICS OF INEQUALITY (3-0-3)(F/S).** Examination of global and regional trends in income inequality over time and the causes and consequences of inequality within developed and developing countries. PREREQ: Graduate Standing or PERM/INST.

**POLS 525 CIVIL WAR AND TERRORISM (3-0-3)(F/S).** Analysis of the theoretical and empirical causes of non-state actors using force against states and civilians in both domestic and international spheres. PREREQ: Graduate Standing or PERM/INST.

**POLS 526 DEMOCRATIZATION (3-0-3)(F/S).** This seminar explores current theory and empirical observations in the areas of democratic regime change and consolidation. PREREQ: Graduate Standing or PERM/INST.

**POLS 528 ADVANCED INTERNATIONAL POLITICAL ECONOMY (3-0-3)(F/S).** Examination of theoretical and methodological approaches to understanding the relationships between politics and economics in the international sphere. PREREQ: Graduate Standing or PERM/INST.

**POLS 530 STATE INSTITUTIONS AND CIVIL SOCIETY (3-0-3)(F/S).** Examination of state formation and historical development of civil society. An emphasis on the interrelated nature of state and civil society development. PREREQ: Graduate Standing or PERM/INST.

**POLS 531 CONTEMPORARY ISSUES IN WORLD POLITICS (3-0-3)(F/S).** Examination of theoretical and methodological approaches to understanding recent developments in international relations or comparative politics. May be repeated for credit. PREREQ: Graduate Standing or PERM/INST.
Public Policy and Administration Programs

School of Public Service
Environmental Research Building, Room 5146F
(208) 426-1476 (phone)
(208) 426-4370 (fax)
https://sps.boisestate.edu/publicpolicy/ (website)

Graduate Faculty: Alm, Birdsall, Fowler, Fredericksen, Freemuth, Gregory, Hill, Hubbard, Pappas, Park, Schneider, Witt

Graduate Degrees Offered
- Doctor of Philosophy in Public Policy and Administration
- Master of Public Administration
- Graduate Certificate in Conflict Management
- Graduate Certificate Nonprofit Administration

DOCTOR OF PHILOSOPHY IN PUBLIC POLICY AND ADMINISTRATION

Doctoral Program Coordinator: Jen Schneider
Environmental Research Building, Room 5135
(208) 426-2514 (phone)
jenschneider@boisestate.edu (email)
https://sps.boisestate.edu/publicpolicy/phd/ (website)

General Information
Boise State University offers a Doctor of Philosophy in Public Policy and Administration through the Public Policy and Administration (PPA) program. The degree requires the completion of a prescribed course of study in PPA, satisfactory performance on the comprehensive examination and the dissertation proposal, and independent completion of original research that results in a publicly defended dissertation that contributes significantly to knowledge in Public Policy and Administration.

Application Deadline
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
- January 15 (fall admission only)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree or master's degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree or master's by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A letter of intent detailing the applicant's educational and professional background and anticipated career objectives including how a doctoral degree might support those aspirations.
3. A current résumé or curriculum vitae.
4. Official Graduate Record Examinations (GRE) General Test scores. The minimum score of 300 (verbal and quantitative; 1,000 for older scoring system). The requirement can be waived for applicants who have earned a master’s degree from an accredited program.
5. A minimum TOEFL scores of 587 (written exam) and 240 (computer-based exam) for non-native English speakers.
6. An analytical writing sample.
7. Three letters of recommendation from academic or professional references evaluating your academic potential.

Graduate Teaching and Research Fellowships
Graduate fellowships including tuition and fee waivers are funded from three sources: appropriated state funds, endowments, and research grants and contracts. Applicants to the PhD program in Public Policy and Administration who submit all documents required by the admission procedure by January 15 of any given year will be considered for a state appropriated or endowed graduate fellowship to start the following fall semester; notification of successful applicants will be during February and March. Information on graduate fellowships funded by research grants and contracts is available from the coordinator of the doctoral program in PPA.

Degree Requirements
The program of study for the Doctor of Philosophy in Public Policy and Administration will require at least 67 credits beyond a bachelor’s degree or 46 credits beyond a master’s degree, and adhere to all policies and procedures of the Graduate College. Full-time students must be enrolled with a minimum of 9 credits each semester. Part-time students are expected to make continuous progress with a designated credit goal each year. Courses applied to meet the 67 credit minimum requirement must be taken for a letter grade (A-F), except for PUBADM 691 Doctoral Comprehensive Examination (graded P - Pass or F - Fail), PUBADM 689 Dissertation Proposal and PUBADM 693 Dissertation (initially graded IP - In Progress and later graded P or F depending upon the outcome of the dissertation defense). Undergraduate courses are not applied to this doctoral degree. Students must complete coursework as outlined in the degree requirements table. For those entering the program with post baccalaureate graduate coursework, no more than 21 credits of previous graduate coursework can be applied as course credit. This previous coursework is subject to the restrictions and guidelines established by the Graduate College and university registrar.

All programs of study, including previously completed graduate coursework that a student wishes to apply to this program, must be approved by the student's Supervisory Committee. All doctoral students must complete 15 credits of core requirements and a 12 credit methods sequence. In addition, doctoral students will complete 18 elective credits, along with the culminating activity credit PUBADM 691 (2), PUBADM 689 (2), and PUBADM 693 (18).
Doctor of Philosophy in Public Policy and Administration

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PUBADM 601 Philosophy of Social Inquiry</td>
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</tr>
<tr>
<td>PUBADM 602 Theories of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 603 Theories of Public Policy</td>
<td>3</td>
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<tr>
<td>PUBADM 609 Advanced Research Design</td>
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<td>Select one (1) of the following:</td>
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<tr>
<td>PUBADM 607 Advanced Public Administration Studies</td>
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<tr>
<td>PUBADM 608 Advanced Public Policy Studies</td>
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<td>Methods Sequence</td>
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<tr>
<td>SPS 502 Quantitative Methods for the Social Sciences</td>
<td>3</td>
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<tr>
<td>SPS 503 Qualitative Methods for the Social Sciences</td>
<td>3</td>
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<tr>
<td>Select one (1) of the following:</td>
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<td>SPS 504 Survey Research</td>
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</tr>
<tr>
<td>SPS 505 Public Policy Analysis</td>
<td></td>
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<tr>
<td>SPS 506 Program Evaluation</td>
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<tr>
<td>SPS 507 Advanced Qualitative Methods and Analysis</td>
<td></td>
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<tr>
<td>SPS 508 Maximum Likelihood Estimation</td>
<td></td>
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<tr>
<td>SPS 509 Advanced Quantitative Methodology</td>
<td></td>
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<tr>
<td>SPS 510 Game Theory and Formal Modeling</td>
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<tr>
<td>Electives (with supervisory committee approval)</td>
<td>18</td>
</tr>
<tr>
<td>PUBADM 691 Doctoral Comprehensive Examination</td>
<td>2</td>
</tr>
<tr>
<td>PUBADM 689 Dissertation Proposal</td>
<td>2</td>
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<tr>
<td>PUBADM 693 Dissertation</td>
<td>18</td>
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<tr>
<td>Total</td>
<td>67</td>
</tr>
</tbody>
</table>

Alternative Residency

PhD students are required to fulfill a one-year, full-time residency. Students wishing to fulfill their residency requirement via an Alternative Residency Plan (ARP) must complete the program ARP form and submit with the Application for Advancement to Candidacy (AAC) form following the successful defense of their dissertation proposal.

It is recommended that the alternative residency plans should meet the following four goals: Disciplinary depth and breadth, Scholarly immersion, Professional socialization, and Professional practice. Students should plan to attend or participate in a minimum of three (3) of these events or opportunities per semester of enrollment.

MASTER OF PUBLIC ADMINISTRATION

Graduate Program Director: Luke Fowler
Environmental Research Building, Room 1147
(208) 426-5527 (phone)
mpa@boisestate.edu (email)

General Information

The Public Policy and Administration (PPA) program offers the master’s degree in public administration (MPA), an important academic nucleus of the university's designated area of emphasis in public affairs. As the urban university in Idaho located in the capital city, Boise State has the mandate to provide educational opportunities related to public affairs. The program offers this degree to help fulfill that mandate. It is the only MPA accredited by the National Association of Schools of Public Affairs and Administration (NASPAA) in Idaho and one of only twelve in the six states surrounding Idaho.

The MPA is designed to prepare pre-service students and in-service professionals for positions of leadership in public service. Administrators and other staff members in all levels of government, non-profit organizations and private sector governmental affairs departments take advantage of the general administrative and policy analysis curriculum offered in the MPA. The curriculum provides the theoretical and practical dimensions of public management necessary to assist students seeking public service careers. The MPA has three concentrations: 1) General Public Administration 2) Environmental, Natural Resource, and Energy Policy and Administration, and 3) State and Local Government Policy and Administration. Based upon its lead role in public policy, the Master of Public Administration plays an important role in the administration and delivery of courses in the Master of Health Science, Health Policy emphasis.

Public Administration Applied Research and Service

In keeping with the university’s role and mission in public affairs, our faculty are involved in a number of important training and applied research activities that have major statewide impact including the annual Mountain West Municipal Clerks and Treasurers Institute.

Application Deadlines

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
• January 15 (summer/fall)
• October 1 (spring)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a nationally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. A letter of intent (500 words) detailing educational and professional background and career goals.
3. A current résumé or curriculum vitae.
4. Official Graduate Record Examinations (GRE) General Test scores. The minimum score of 300 (verbal and quantitative; 1,000 for older scoring system). The requirement can be waived for applicants who have earned a master’s degree from an accredited program or who have an aggregate undergraduate GPA of 3.20 GPA or better (either at graduation or within a single term of graduation).
5. Three letters of recommendation from academic or professional references evaluating your academic potential.
Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUBADM 500 Administration in the Public Sector</td>
<td>3</td>
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<tr>
<td>PUBADM 501 Public Policy Process</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 502 Organization Behavior and Management</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 503 Research Methods in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 504 Public Budgeting and Financial Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 505 Personnel Administration for Public Service</td>
<td>3</td>
</tr>
</tbody>
</table>

Public Service Internship

All students are required to complete a three credit internship for a total of 39 credits unless all or part of these credits are waived. Students who have at least one year of substantive administrative, management or professional experience in or with the public or nonprofit sector may petition the graduate director to waive the internship requirement. This petition must be submitted AFTER a student has been admitted to the MPA program and should include a letter detailing the basis for the petition along with a recent copy of the student’s résumé. Instructions to petition for internship waiver or to obtain an internship are available on the program website.

GRADUATE CERTIFICATE IN CONFLICT MANAGEMENT

Graduate Program Director: Brian Pappas
Environmental Research Building, Room 1143
(208) 426-2536 (phone)
(208) 426-4370 (fax)
brianpappas@boisestate.edu (email)

General Information

The Graduate Certificate in Conflict Management assists working professionals and students to understand and respond to interpersonal and group conflict. The certificate program focuses on understanding the causes and productive responses to interpersonal conflict, including third-party facilitation and mediation, as well as upon the understanding of conflict in larger groups and the skills of facilitating high conflict meetings.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A statement of interest.
3. An advising and admissions interview with the Graduate Program Director of the Boise Graduate Certificate in Conflict Management program, Dr. Brian Pappas, is required.

Request for Internship Waiver

Applicants interested in waiving internship requirements should submit a letter requesting waiver along with a résumé summarizing applicable experience. Three years of related experience, including an explanation of why the program content is not required, will be considered for waiver. The request for internship waiver must be submitted AFTER the student has been admitted to the MPA program.

Evaluating Coursework from Noncore MPA Courses

The graduate director evaluates credit coursework from the noncore MPA courses in a particular area. Students should select the 12 credit hours of coursework from the noncore MPA courses listed in this catalog. Students may also work with an advisor to identify relevant graduate coursework in other programs at Boise State University.

Admission Regulations

1. O
2. A statement of interest.
3. An advising and admissions interview with the Graduate Program
Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>*DISPUT 500 Basic Mediation Skills</td>
<td>3</td>
</tr>
<tr>
<td>DISPUT 501 Human Factors in Conflict Management</td>
<td>1</td>
</tr>
<tr>
<td>DISPUT 502 Negotiation Theory and Practice</td>
<td>1</td>
</tr>
<tr>
<td>DISPUT 504 Facilitating Groups in Conflict</td>
<td>1</td>
</tr>
<tr>
<td>DISPUT 505 Culture and Conflict</td>
<td>1</td>
</tr>
<tr>
<td>DISPUT 590 Internship</td>
<td>2</td>
</tr>
<tr>
<td>DISPUT 546 Resolution Competency Assessment</td>
<td>1</td>
</tr>
<tr>
<td>Electives DISPUT 594, 597, or other approved electives</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>12</td>
</tr>
</tbody>
</table>

* Candidates who have already completed DISPUT 400 or other equivalent undergraduate basic mediation courses may waive DISPUT 500 and then take three additional graduate credits of approved elective coursework.

Gainful Employment Disclosure

The Graduate Certificate in Conflict Management program is subject to gainful employment disclosure requirements as prescribed by federal regulation 34 CFR 668.6(b) (2) (iv). The required disclosure is given at the following website: [https://graduatecollege.boisestate.edu/programs2018/Gedt-Conflict%20Management%202018/09.9999-Gedt.html](https://graduatecollege.boisestate.edu/programs2018/Gedt-Conflict%20Management%202018/09.9999-Gedt.html).

Graduate Certificate in Nonprofit Administration

Course Number and Title Credits

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Core:</td>
<td></td>
</tr>
<tr>
<td>PUBADM 514 Introduction to Nonprofit Management and Collaboration</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 517 Resource Management in Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>Elective Courses:</td>
<td></td>
</tr>
<tr>
<td>Students must select nine credits from the electives listed below. Electives not included in this list must be pre-approved by the Certificate Coordinator before a student can apply them toward their degree progress.</td>
<td></td>
</tr>
<tr>
<td>DISPUT 500 Basic Mediation Skills</td>
<td>3</td>
</tr>
<tr>
<td>MHLTHSCI 522 Management for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>MHLTHSCI 525 Leadership for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 500 Administration in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 501 Decision-Making in Public and Nonprofit Management</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 513 Economics of Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 515 Policy Implementation and Practice</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 516 City-County Governance and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 518 Introduction to Contract Management</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 532 Grant Writing</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 550 The Executive and the Administrative Process</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 560 State and Local Government Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 570 Public Management Skills and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 571 Ethics in the Public Sector</td>
<td>3</td>
</tr>
<tr>
<td>Internship/Service Learning</td>
<td></td>
</tr>
<tr>
<td>A 3-credit internship or 3 credits of coursework with associated service-learning designation are required of students without substantive management experience in the Nonprofit sector. Students who have such experience may petition to have the internship/service learning requirement waived. Contact the coordinator of this certificate for guidelines.</td>
<td></td>
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<tr>
<td>PUBADM 590 Internship</td>
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<tr>
<td>Total</td>
<td>18</td>
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</tbody>
</table>

GRADUATE CERTIFICATE IN NONPROFIT ADMINISTRATION

Program Director: Luke Fowler
Environmental Research Building, Room 117
(208) 426-5527 (phone)
nonprofit-administration@boisestate.edu (email)

General Information

The Boise State University Graduate Certificate in Nonprofit Administration assists working professionals and students with an interdisciplinary basis to hone their management and leadership skills and policy development expertise in the particular legal environment facing not-for-profit organizations as they collaborate with private enterprise and local, state and federal governments to serve the public interest.
Course Offerings

DISPUT—Dispute Resolution

DISPUT 500 BASIC MEDIATION SKILLS (3-0-3)(F/S). Students learn the theoretical foundations of negotiation and mediation, types of mediation, mediation models, mediation case work skills, building the mediation plan, interpersonal communication skills for mediation, and various resolution techniques. Students will mediate several actual and/or simulated practice cases.

DISPUT 501 HUMAN FACTORS IN CONFLICT MANAGEMENT (1-0-1)(F). This course presents communication theories to assist managers understanding, analyzing, and managing conflict. The course focuses on the causes of conflict and includes the influence of style on conflict. The course is pragmatic as well as theoretical.

DISPUT 502 NEGOTIATION THEORY AND PRACTICE (1-0-1)(F). The successful manager in professional settings is involved in a variety of negotiation activities. The tactics, strategies, and operations of effective and ineffective bargaining/negotiation behaviors will be presented. The course develops negotiator skills and knowledge leading to collaborative based action and solutions.

DISPUT 504 FACILITATING GROUPS IN CONFLICT (1-0-1)(F/S). Public input processes on controversial issues may generate conflict. The causes and skills for facilitating public input processes will be discussed, as well as techniques for facilitating conflict within small and large group meetings.

DISPUT 505 CULTURE AND CONFLICT (1-0-1)(S). Managing conflicts with persons from other cultural backgrounds than oneself is particularly challenging. Common errors in interpersonal conflict management and mediation will be discussed, along with perspectives to ameliorate the difficulties in conflict management across cultural lines.

DISPUT 546 RESOLUTION COMPETENCY ASSESSMENT (0-0-1)(F/S). Students who have completed or are in their second semester of a Dispute Resolution internship in one area of conflict management practice may take a field and written exam to assess their competence. (Pass/Fail.) PREREQ: PERM/PROG DIR.

DISPUT 565 CONFLICT MANAGEMENT IN ENVIRONMENT, NATURAL RESOURCE AND ENERGY POLICY (3-0-3)(F/S). Public and private interests in environmental, natural resource, and/or energy policy often clash. Examines processes to manage larger scale issues, the roles of government and private entities in these conflicts, and case studies of regional interest.

DISPUT 575 CONFLICT ANALYSIS (3-0-3)(F/S). Procedures are examined and analysis methods will be applied to regional policy or environmental conflict issues.

PUBADM—Public Administration

PUBADM 500 ADMINISTRATION IN THE PUBLIC SECTOR (3-0-3)(F). Designed to introduce students to the broad field of public administration at the graduate level. The course surveys a number of important issues in contemporary public administration, including an emphasis on political, legal, economic and social institutions and processes.

PUBADM 501 PUBLIC POLICY PROCESS (3-0-3)(F/S). Process of policymaking both within an agency and within the total governmental process, emphasizing policy and program planning, policy implementation and the value system of administrators.

PUBADM 502 ORGANIZATION BEHAVIOR AND MANAGEMENT (3-0-3)(F/S). Considers the theories and practices of organization behavior and management in public and nonprofit organizations.

PUBADM 503 RESEARCH METHODS IN PUBLIC ADMINISTRATION (3-0-3)(F/S). An introduction to quantitative and qualitative data analysis with an emphasis on using descriptive and inferential statistics as tools in both public policy analysis and public program analysis. The use of quantitative analysis to support management decision making is examined. Computers will be used in the analysis of quantitative data.

PUBADM 504 PUBLIC BUDGETING AND FINANCIAL ADMINISTRATION (3-0-3)(F/S). Determination of fiscal policy, budgeting processes, and governmental forms of budgeting. Consideration of fiscal policy and processes in various program areas. Emphasis on the interface between technical and political processes. PRE/COREQ: PUBADM 500 or PERM/PROG DIR.

PUBADM 505 PERSONNEL ADMINISTRATION FOR PUBLIC SERVICE (3-0-3)(F/S). Examines the personnel/human resource management role as it has evolved in the public service sectors. Multiple responsibilities of personnel managers in the public and nonprofit sectors will be examined, and the link between public policy and personnel management is explored. PRE/COREQ: PUBADM 500 or PERM/PROG DIR.

PUBADM 506 QUALITATIVE ANALYSIS AND METHODOLOGY (3-0-3)(F/S), Interviews, observation, focus group methods examined in relation to planning and public administration. Other topics include communication skills in terms of writing, presentation, interpersonal dialogue, and group process. PREREQ: PUBADM 533 or PERM/INST.

PUBADM 507 INTERMEDIATE QUANTITATIVE ANALYSIS AND METHODOLOGY (3-0-3)(F/S). Elementary distribution theory, statistical inference, and an introduction to multiple regression. Emphasis on practical applications. PREREQ: PUBADM 533 or PERM/INST.

PUBADM 508 ADVANCED SURVEY RESEARCH (3-0-3)(F/S). Addresses the theoretical and practical nexus between public policy and public opinion and the role that surveys play in that relationship. Students engage directly in advanced survey research through design, implementation, sampling, data collection, follow-up, analysis, and ethical considerations. PREREQ: PUBADM 533 or PERM/INST.

PUBADM 509 PUBLIC POLICY ANALYSIS (3-0-3)(F/S). Introduces policy analysis, policy tools, and factors shaping the utilization of policy analysis. A significant portion of the course is spent in learning and applying analytical techniques. PREREQ: PUBADM 501 or PERM/INST.

PUBADM 510 PROGRAM EVALUATION (3-0-3)(F/S). Explores issues related to evaluation research and design with particular attention to design and critique of process, outcome, and impact evaluations and the utility of evaluation in performance monitoring. PREREQ: PUBADM 533 or PERM/INST.

PUBADM 511 DECISION-MAKING IN PUBLIC AND NONPROFIT MANAGEMENT (3-0-3)(F/S). Designed to introduce decision theory and optimization techniques and tools in public and nonprofit organizations to provide basic techniques related to planning, monitoring, managing, and measuring program performance.

PUBADM 512 INFORMATION TECHNOLOGY AND PUBLIC POLICY (3-0-3)(F/S)(Alternate years). Examines implications of information technology for policymaking and policy analysis as well as the management of knowledge and information in and between organizations.

PUBADM 513 ECONOMICS OF PUBLIC POLICY (3-0-3)(F/S)(Alternate years). Contributions of economic analysis to the justification, design, and implementation of economic policy, especially as it relates to the market economy and the benefits and costs associated with government intervention.

PUBADM 514 INTRODUCTION TO NONPROFIT MANAGEMENT AND COLLABORATION (3-0-3)(F/S)(Alternate years). The course examines the implementation of public policy through nongovernmental organizations. Students will gain a general understanding of the history of philanthropy in selected nations and will explore the various social, economic, and political assumptions that found contemporary cross-sector delivery systems.

PUBADM 515 POLICY IMPLEMENTATION AND PRACTICE (3-0-3)(F/S)(Alternate years). Examines mechanisms, assumptions, and measurement issues surrounding various forms of public policy implementation including the use of direct service delivery by public organizations, collaborative systems and the use of for-profit and nonprofit organizations.
PUBADM 516 CITY-COUNTY GOVERNANCE AND ADMINISTRATION (3-0-3)(F/S). Introduction to different urban and rural political systems, governance and administration including variations in electoral structures, governing bodies, and an analysis of political parties, interest groups and emerging policy issues.

PUBADM 517 RESOURCE MANAGEMENT IN NONPROFIT ORGANIZATIONS (3-0-3)(F/SU). Explores the unique political and legal environment facing nonprofits and best practices in effectively and efficiently managing human and financial resources.

PUBADM 518 INTRODUCTION TO CONTRACT MANAGEMENT (3-0-3)(F/SU). Explores issues, trends, ethics, and best practices in contract management from the pre-award phase through post-award.

PUBADM 530 ADMINISTRATIVE LAW AND REGULATION (3-0-3)(F/S). Sources of power and duties of administrative agencies, rules and regulations made by agencies through investigation and hearings, judicial decisions and precedents relating to administrative activities.

PUBADM 532 GRANT WRITING (3-0-3)(F/S). Students will explore the skills and techniques associated with successful grant writing and will prepare a grant proposal.

PUBADM 533 RESEARCH DESIGN AND MEASUREMENT (3-0-1)(F/S). Introduction to the role of data in public management including ethical concerns of conducting research, the research design process and measurement. Course meets for 5 weeks.

PUBADM 534 DESCRIPTIVE STATISTICS (3-0-1)(F/S). Introduction to descriptive statistics including central tendency, measures of dispersion, normal distribution, contingency tables, data collection and sampling using SPSS. Course meets for 5 weeks. PRE/COREQ: PUBADM 533 or PERM/INST.

PUBADM 535 INFERENCE STATISTICS (3-0-1)(F/S). Explores inferential statistics with attention to hypothesis testing, cross-tabs with Chi-Square, independent samples t-test, ANOVA, association/correlation and simple regression using SPSS. Course meets for 5 weeks. PRE/COREQ: PUBADM 533 or PERM/INST.

PUBADM 536 INTRODUCTION TO SURVEY RESEARCH METHODS (3-0-1)(F/S). Introduction to several methods of conducting surveys to explore the strengths and limitations of this mode of data collection including developing instruments and assessing results. Course meets for 5 weeks. PRE/COREQ: PUBADM 533 or PERM/INST.

PUBADM 537 ADVANCED STATISTICAL TECHNIQUES (3-0-1)(F/S). Explores more advanced techniques including multiple regression, logistic regression, dummy variables, multicollinearity, regression assumptions and time series modeling. Course meets for 5 weeks. PRE/COREQ: PUBADM 533 or PERM/INST.

PUBADM 540 CONTEMPORARY ISSUES IN NATURAL RESOURCE AND ENVIRONMENTAL POLICY AND ADMINISTRATION (3-0-3)(F/S). Examines current and topical issues and controversies in natural resource and environmental policy from the perspective of public policy and public administration.

PUBADM 541 ENVIRONMENTAL AND REGULATORY POLICY AND ADMINISTRATION (3-0-3)(F/S). Examines aspects of environmental regulatory politics and policy. Topics examined include the politics of regulation, pollution and energy policy, and intergovernmental environmental management.

PUBADM 542 SCIENCE, DEMOCRACY AND THE ENVIRONMENT (3-0-3)(F/S). Examines the role of science and scientists in the formation of U.S. environmental policy making. Special attention is given to the tension between elite and democratic forms of decision making.

PUBADM 543 PUBLIC LAND AND RESOURCE POLICY AND ADMINISTRATION (3-0-3)(F/S). Examines the major issues, actors, and policies affecting the public lands and resources of the United States. Special attention is paid to the processes, institutions, and organizations that influence how public land policy and resource policy is made.

PUBADM 544 ENERGY POLICY IN THE WESTERN U.S. (3-0-3)(F/S). Examines energy resources, uses, reserves, and the perspectives of citizens impacted by resource extraction and use in the U.S. West. Emphasis is placed on current resource extraction developments in the oil, gas, coal, oil shale, tar sands, nuclear, and renewable industries.

PUBADM 545 U.S. ENERGY POLICY (3-0-3)(F/S). Explores the key issues in the development of major energy policy choices in the U.S. with attention paid to issues with international ramifications.

PUBADM 546 CLIMATE CHANGE POLICY AND ADMINISTRATION (3-0-3)(F/S). Considers multiple aspects of climate change, global warming, and related issues such as mitigation, adaptation, resilience, and vulnerability in relation to public policy and administration. Considering climate change is defined through science, politics, competing perspectives, alternate and available solutions will frame the course.

PUBADM 547 WATER RESOURCES POLICY AND MANAGEMENT (3-0-3)(F/S). Considers water resource policy, management, and politics in the US with attention to the clean Water Act, the Endangered Species Act, water allocation, public trust doctrines, and current water resource issues.

PUBADM 550 THE EXECUTIVE AND THE ADMINISTRATIVE PROCESS (3-0-3)(F/S). This course covers the powers and responsibilities of elected and appointed executives in the public sector. Concepts examined in the class include leadership and management, executive roles, management theories and styles, relationships with the separate branches of government and other actors in the political environment. The unique position of the executive between politics and administration and the relevant activities in policy formation through implementation form the basis of discussion.

PUBADM 560 STATE AND LOCAL GOVERNMENT POLICY AND ADMINISTRATION (3-0-3)(F/S). This course examines state and local government administration in a political and organizational context and the attendant interunit, intersector, and interjurisdictional cooperation and conflict in policy administration. Attention is paid to management in a federal system with a focus on nation-state-local relations.

PUBADM 570 PUBLIC MANAGEMENT SKILLS AND TECHNIQUES (3-0-3)(F/S). This course addresses such knowledge and skills for managers and leaders in public organizations as: personal assessment; leading and managing others; aspects of self and others which underlie behavior; managing stress and time; decision making; public participation; working with elected and appointed public officials; working with the media; solving problems; communicating supportively and assertively; appropriately using power and influence; understanding motivational processes; managing conflicts; empowering and delegating; and building teams.

PUBADM 571 ETHICS IN THE PUBLIC SECTOR (3-0-3)(F/S). Examination of ethical dilemmas facing civil servants and elected officials utilizing case studies, current ethics statutes, and approaches in the public administration literature to the subject.

SELECTED TOPICS (1-3 Variable). To be offered as staff availability permits:

PUBADM 580 ADMINISTRATIVE THEORY AND PRACTICE
PUBADM 581 NATURAL RESOURCE AND ENVIRONMENTAL POLICY
PUBADM 582 PUBLIC POLICY AND POLICY ANALYSIS
PUBADM 583 PUBLIC MANAGEMENT SKILLS AND TECHNIQUES
PUBADM 584 STATE AND LOCAL GOVERNMENT POLICY AND ADMINISTRATION
PUBADM 585 INTERGOVERNMENTAL RELATIONS
PUBADM 586 COMMUNITY AND REGIONAL PLANNING
PUBADM 587 COMPARATIVE PUBLIC ADMINISTRATION AND PLANNING SYSTEMS
PUBADM 597 SPECIAL TOPICS SPECIAL TOPICS (1-3 credits). Offered occasionally and reflect emerging topics in public administration.

PUBADM 601 PHILOSOPHY OF SOCIAL INQUIRY (3-0-3)(F/S). Explores epistemological and normative issues involved in social science and public policy research. PREREQ: Admission to the PhD in Public Policy and Administration program or PERM/INST.

PUBADM 602 THEORIES OF PUBLIC ADMINISTRATION (3-0-3)(F/S). Examines political, social, economic, and administrative theories that have shaped democratic government and its institutions and processes. Topics include prominent writings in both political and public administration theory. PREREQ: Admission to the PhD in Public Policy and Administration program.

PUBADM 603 THEORIES OF PUBLIC POLICY (3-0-3)(F/S). Examines the study of public policy and its administration using the development and refinement of technical oral and written communication skills and the preparation of research critiques. PREREQ: Admission to the PhD in Public Policy and Administration program.

PUBADM 604 ADVANCED TECHNIQUES IN POLICY RESEARCH (3-0-3)(F/S). Direct application of quantitative and qualitative analysis to contemporary and emerging local, regional, state, national, comparative policy questions. Students are expected to work on selected policy research projects with identified public, private or nonprofit organizations. PREREQ: Admission to the PhD in Public Policy and Administration program and PUBADM 503 and 9 credits from PUBADM 506, PUBADM 507, PUBADM 508, PUBADM 509, PUBADM 510, GEOG 560; or PERM/INST.

PUBADM 605 SEMINAR IN ENVIRONMENTAL POLICY AND ADMINISTRATION (3-0-3)(F/S). Examines the major issues, policy choices, and actors in current environmental and natural resource policy. Attention is centered upon, but not limited to, U.S. policies and issues. PREREQ: Admission to the PhD in Public Policy and Administration program or PERM/INST.

PUBADM 606 SEMINAR IN STATE AND LOCAL GOVERNMENT POLICY AND ADMINISTRATION (3-0-3)(F/S). Examines current issues in state and local governance, with some particular attention paid to Western U.S. and state of Idaho issues and policies. PREREQ: Admission to the PhD in Public Policy and Administration program or PERM/INST.

PUBADM 607 ADVANCED PUBLIC ADMINISTRATION STUDIES (3-0-3)(F/S). Explores advanced practical applications of political, social, economic, and administrative theories related to local, regional, state, national, comparative policy questions. PREREQ: Admission to the PhD in Public Policy and Administration program and PUBADM 601 and PUBADM 602; or PERM/INST.

PUBADM 608 ADVANCED PUBLIC POLICY STUDIES (3-0-3)(F/S). Explores advanced application of policy theory to local, regional, state, national, comparative policy questions. PREREQ: Admission to the PhD in Public Policy and Administration program and PUBADM 601 and PUBADM 603; or PERM/INST.

PUBADM 609 ADVANCED RESEARCH DESIGN (3-0-3)(F/S). Applies social science research design to advanced study of contemporary research questions in public policy and administration including advanced instruction in the development and presentation of research reports. PREREQ: Admission to the PhD in Public Policy and Administration program, completion of 12 credits in the methodology sequence, and completion of 3 credits from PUBADM 607 or PUBADM 608; or PERM/INST.
Department of Respiratory Care
College of Health Sciences / School of Allied Health Sciences
Health Sciences Riverside, Room 207
(208) 426-3316 (phone)
(208) 426-4093 (fax)
respcare@boisestate.edu (email)
https://hs.boisestate.edu/respcare/ (website)

Graduate Faculty: Coyle, Koster

Graduate Degree Offered
• Master of Science in Respiratory Care

MASTER OF SCIENCE IN RESPIRATORY CARE
Graduate Program Coordinator: Megan Koster
Health Science Riverside, Room 206
(208) 426-3319 (phone)
megankoster@boisestate.edu (email)

General Information
This online program is designed for Registered Respiratory Therapists (RRT) who hold a valid credential and baccalaureate degree to pursue a Master of Science in Respiratory Care (MSRC) degree. Program curriculum, focused in educational leadership, is designed to support the professional advancement of RRT’s who wish to advance the scope of Respiratory Care practice through the pursuit of administration and educational positions, either in academia or the healthcare setting, or those who wish to serve as leaders in the clinical setting by becoming content experts or consultants prepared with an advanced understanding of cardiopulmonary physiology and disease management.

This program admits students to an annual cohort and courses are to be taken sequentially, culminating in a research-based capstone course. Students will be required to enroll in two seven-week courses per semester; however, each course will be taken independently. This 36-credit program, offered solely online, is a unique opportunity for baccalaureate-prepared Respiratory Therapists interested in advancing their careers to do so by examining an integrated curriculum that not only emphasizes educational, health, management theory as it applies to clinical practice, but also challenges the student to engage with colleagues from across the nation in a variety of healthcare settings to explore those theories in varying contexts. Students will gain a graduate-level understanding of cardiopulmonary physiology and disease management and will be prepared to and encouraged by the MSRC faculty to pursue presentation or publication of their research topics. Additionally, graduates will be prepared with the advanced clinical knowledge necessary to pursue several advanced credentialing exams offered by the National Board for Respiratory Care (NBRC). This program has been designed with Respiratory Therapists working throughout the healthcare system in mind and students accepted to this program can expect to complete the course sequence in two years.

Application Deadline
Submit application and admission materials well in advance to ensure that the application is complete by the deadline:
• June 1 (fall admission only)

Admission Requirements
Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant's most recent baccalaureate degree. A minimum of 3.00 cumulative GPA for undergraduate Respiratory Care coursework is required.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:
1. Official transcripts from all colleges attended.
2. A written statement of applicant’s educational goals/research interests/program expectations.
3. Clinical experience and a résumé or curriculum vitae. Professional accomplishments and work experience will be considered if cumulative GPA is lower than 3.00.
4. International students whose native language is not English must also submit TOEFL scores.
5. A current Registered Respiratory Therapist (RRT) credential.
6. An active state license (if applicable) in good standing or eligible to practice by the government or equivalent.
7. Clinical experience not less than 2 years is preferred, but more recent graduates are welcome to apply and will be considered based on evidence of the following: Excellent academic record (i.e., greater than 3.5 cumulative GPA for undergraduate Respiratory Care coursework, exceptional research background, work experience of less than 2 years in an innovative or unconventional RT role).
8. Two letters of recommendation. One (1) letter must be sent by a previous instructor and one (1) from a supervisor. Recommendations from relatives, friends or colleagues will not be accepted. If it has been more than six (6) years since the student last worked with the selected instructor, this recommendation requirement can be replaced with a letter from a second supervisor. If a candidate does not have professional work experience, the requirement of a supervisory recommendation letter may be replaced with a recommendation from a second instructor.

Degree Requirements
A minimum of 36 credits is required for graduation. The part-time program is designed to be completed in 2-year time frame, with students attending courses throughout each of the Fall, Spring, and Summer terms. Student admitted to the annual cohort will begin courses in the Fall and must enroll in the program-specific course sequence within their cohort group. Deviations from the designated course sequence are generally not permitted, however; special circumstances will be evaluated on a case-by-case basis, please contact program coordinator. Each course offered in the MSRC program will be offered solely online and adhere to the seven-week term dates outlined by the university’s academic calendar. MSRC students will be required to take two, seven-week courses per academic semester, totaling 6 academic credits per semester, thus students will be focusing on one course at a time through the progression of the program. Students must satisfy all prerequisites for coursework outlined by the program prior to continuing in the course sequence.

The expectation of the program is that students earn grades of B or better in their coursework. A student may not receive a grade that is less than B (B- or below) in a single course and a course grade of less than a B (B- or below) may not be used to meet the MSRC degree requirements. Additionally, at the time at which a student receives an initial grade of less than a B (B- or below) they will be placed on academic probation by the program and required to meet with faculty to outline an action plan for improvement. A grade of less than B in a second course will result in that student being dismissed from the program.
Master of Science in Respiratory Care

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESPCARE 500 Educational Leadership</td>
<td>3</td>
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<tr>
<td>RESPCARE 505 Evidence Based Medicine</td>
<td>3</td>
</tr>
<tr>
<td>RESPCARE 510 Advanced Cardiopulmonary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>RESPCARE 515 Applied Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>RESPCARE 520 Advanced Pulmonary Disease Management</td>
<td>3</td>
</tr>
<tr>
<td>RESPCARE 525 Educational Methodology</td>
<td>3</td>
</tr>
<tr>
<td>RESPCARE 530 Advanced Cardiovascular Disease Management</td>
<td>3</td>
</tr>
<tr>
<td>RESPCARE 535 Managing Organizational Change</td>
<td>3</td>
</tr>
<tr>
<td>RESPCARE 540 Healthcare Management</td>
<td>3</td>
</tr>
<tr>
<td>RESPCARE 545 Ethics of the Profession</td>
<td>3</td>
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<tr>
<td>RESPCARE 570 Capstone I</td>
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<tr>
<td>RESPCARE 571 Capstone II</td>
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<tr>
<td>Total</td>
<td>36</td>
</tr>
</tbody>
</table>

Course Offerings

RESPCARE—Respiratory Care

RESPCARE 500 EDUCATIONAL LEADERSHIP (3-0-3)(F). Introduction of theoretical frameworks of leadership theory. Focuses on integration of concepts through thorough analysis of site-specific leadership. Students examine, diagnose, recommend, and reassess leadership strategies. Includes application project for site-study of student's choosing. PREREQ: Admission to the MSRC program.

RESPCARE 505 EVIDENCE BASED MEDICINE (3-0-3)(F). Focuses on the student as a critical user of medical literature. Focus is on the ability to frame a clinical question, search the medical literature, weigh evidence based on study design and quality of research, interpretation of basic statistics used in clinical research, and interpretation of clinical summaries in the form of meta-analysis, systematic review, and clinical practice guidelines. PRE/COREQ: RESPCARE 500.

RESPCARE 510 ADVANCED CARDIOPULMONARY PHYSIOLOGY (3-0-3)(S). Provides in-depth examination of advanced physiology of the cardiovascular and pulmonary systems. Topics include study of cell biology, respiratory physiology, cardiac and circulatory function with relevant clinical application of concepts in cell biology, regulation and function of the cardiovascular system, gas exchange and transport, breathing regulation, and respiratory insufficiency. PREREQ: RESPCARE 500 and RESPCARE 505.

RESPCARE 515 APPLIED RESEARCH METHODS (3-0-3)(S). Introduces types of research methods used in both healthcare and educational research. Emphasis is on the principles, methods, and statistical techniques used in modern health and educational environments. Focus is on development of a critical research question(s), review of literature, and proposed methodology for a capstone project of the student's choosing. PREREQ: RESPCARE 500 and RESPCARE 505.

RESPCARE 520 ADVANCED PULMONARY DISEASE MANAGEMENT (3-0-3)(SU). Explores pulmonary disease management and presents the pathophysiology, diagnosis, and management of common respiratory diseases that Respiratory Therapists encounter in clinical practice. Includes the development of care plans and student-lead online discussions related to specific disease entities of their choosing. PREREQ: RESPCARE 510.

RESPCARE 525 EDUCATIONAL METHODOLOGY (3-0-3)(SU). Focuses on educational theory in academic, clinical, patient-centered, community-based, or preventative settings. Focus is on understanding of instructional design, development, and assessment components, as well as identification and development of objectives based in learning and/or health promotion theory. PREREQ: RESPCARE 500 and RESPCARE 510.

RESPCARE 530 ADVANCED CARDIOVASCULAR DISEASE MANAGEMENT (3-0-3)(F). Explores cardiovascular disease management and presents the pathophysiology, diagnosis, and management of common cardiovascular diseases that Respiratory Therapists will encounter in clinical practice. Builds on the development of care plans and student-lead related discussion forums on topics related to specific disease entities of their choosing. PRE/COREQ: RESPCARE 510.

RESPCARE 535 MANAGING ORGANIZATIONAL CHANGE (3-0-3)(F). Focuses on leadership in an organizational setting. Examines leadership perspectives on the function and dynamics of organizational goal setting. Students are exposed to common organizational dilemmas and challenged to recommend a plan of action to minimize disruption. PREREQ: RESPCARE 525.

RESPCARE 540 HEALTHCARE MANAGEMENT (3-0-3)(S). Focuses the various responsibilities of managing a Respiratory Care department. Topics include a general overview and comparison of health delivery systems, opportunities for quality improvement, staffing and reimbursement structures, financial planning, and innovative leadership to address organizational goals. PREREQ: RESPCARE 525.

RESPCARE 545 ETHICS OF THE PROFESSION (3-0-3)(S). Examines the development of moral and ethical perspective through an analysis of traditional ethical theories as well as through the introduction of the Multiple Ethical Paradigm. Students work closely with classmates Provides framework to examine, articulate, and discuss the application of ethical frameworks to specific cases of both organizational and health care-specific ethical dilemmas. PREREQ: RESPCARE 525.

RESPCARE 570 CAPSTONE I (2-0-2)(SU). First of a two-part capstone course sequence. Focus is on finalizing capstone projects alongside an advisory team to meet the final program requirements. Capstone project topics may focus on quality improvement, educational modules, advanced practice protocols, management, community service, or primary clinical research. PREREQ: RESPCARE 515.

RESPCARE 571 CAPSTONE II (4-0-4)(SU). This is the culminating course for the MSRC program. Focus is on finalizing and submitting all project, program, and Graduate College and project requirements for candidacy for graduation. PRE/COREQ: RESPCARE 570.
School of Social Work

College of Health Sciences

Director: Randy Magen
Education Building, Room 716
(208) 426-1568 (phone)
(208) 426-4291 (fax)
https://hs.boisestate.edu/socialwork/ (website)

Graduate Faculty: Allen, Beauchemin, Chonody, Hutson, Kenaley, Liley, Magen, Powers, Sanders, Williams, Witt

Graduate Degree Offered

- Master of Social Work
- Master of Social Work—Advanced Standing
- Graduate Certificate in Refugee Services (Admission has been suspended)

MASTER OF SOCIAL WORK

Graduate Program Coordinator: Cynthia Sanders
Education Building, Room 716E
(208) 426-1780 (phone)
cynthiasanders@boisestate.edu (email)

General Information

The Master of Social Work (MSW) is accredited by the Council on Social Work Education (reaffirmed in 2010). The program is designed to prepare students for advanced social work practice with individuals and families. Students learn clinical, organizational, policy, and administrative skills necessary for promoting social justice and equality, and enhancing the quality of life for all people. The program provides a broad and in-depth knowledge base in order to prepare students for advanced social work practice in a wide array of settings.

The School does not approve academic credit for prior work or life experience. Students accepted into the Social Work MSW Program will be required to submit to criminal background clearances at their own expense during the program. Information obtained from the background clearances deemed to be detrimental to social work practice will result in dismissal from the program. More information on the background clearances can be found in the School of Social Work’s policies. The Master of Social Work can also be earned at Boise State’s regional sites in Coeur d’Alene and Twin Falls at the College of Southern Idaho, as well as online.

The Master of Social Work Program has one specialization: Advanced social work practice with individuals and families within households, groups, organizations, and communities. Students in the two year program must complete a total of 61 credits including 18 credits in Field Work. Students in the Advanced Standing program complete 37 credits with 12 credits in Field Work.

Students may receive certification to practice school social work in the State of Idaho by completing SOCWRK 562 School Social Work, SOCWRK 575 and SOCWRK 576 in an approved K-12 educational setting under the supervision of a professional school social worker, and all other requirements for the Master of Social Work degree.

Application Deadlines

Submit application and admission materials well in advance to ensure that the application is complete by the deadline:

- Face-to-Face Programs (Boise, Coeur d’Alene, and Twin Falls)
  - December 1 (fall admission only)
- Online Program
  - January 15 (summer)
  - April 15 (fall)
  - August 15 (spring)

A limited number of qualified applicants are placed on a waiting list and offered admission as seats become open.

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. An overall undergraduate GPA of 3.00 or higher (based on a 4-point scale) and/or a GPA of 3.00 or higher for the junior and senior years of undergraduate study.
3. A personal statement that reflects the applicants best professional writing. The personal statement is a series of questions to be answered in essay format in one document, limited to no more than 7 double-spaced pages (8-9 pages for Advance Standing applicants). Clearly label each answer using following headings:
   - Life Experience, Education, and Volunteer Experience
   - Social Work Philosophy
   - Diversity
   - Personal Strengths
   - Undergraduate Social Work Education (Advanced Standing applicants only)
4. A current résumé or curriculum vitae. Please list volunteer/work experience in the following format:
   - Company Name
   - City and State where Company is located
   - Start Date
   - Last date of employment/volunteer experience
   - Position Title
   - Describe the major responsibilities of this position or activities completed
5. Applicants may not receive academic credit for work experience in the field or for life experience.
6. A criminal background check.
7. Completion of the Criminal and Substantiated Abuse History Disclosure form (required) and Criminal and Substantiated Abuse History Disclosure Statement (if required).
10. Complete the Verification of Candor and Accuracy form.
11. Three letters of recommendation.
## Degree Requirements

### Master of Social Work

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Foundation</strong></td>
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<tr>
<td>SOCWRK 503 Foundation Social Work Practice I:</td>
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</tr>
<tr>
<td>Individuals</td>
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</tr>
<tr>
<td>SOCWRK 504 Foundation Social Work Practice II:</td>
<td>3</td>
</tr>
<tr>
<td>Families and Groups</td>
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<tr>
<td>SOCWRK 505 Foundation of Social Welfare Policy</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 512 HBSE I Human Development Through the Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 514 Ethnicity, Gender, and Class</td>
<td>2</td>
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<tr>
<td>SOCWRK 515 Foundation Social Work Practice III:</td>
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<tr>
<td>Organizations and Communities</td>
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<tr>
<td>SOCWRK 521 HBSE II Social Dimensions of Human Behavior</td>
<td>3</td>
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<tr>
<td>SOCWRK 530 Foundations of Research I</td>
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<tr>
<td>SOCWRK 531 Foundations of Research II</td>
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<tr>
<td>SOCWRK 570 Foundation Field Work I</td>
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<tr>
<td>SOCWRK 572 Foundation Field Work II</td>
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<tr>
<td>SOCWRK 573 Foundation Practicum Seminar I</td>
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<td>SOCWRK 574 Foundation Practicum Seminar II</td>
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<td><strong>Advanced</strong></td>
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<tr>
<td>SOCWRK 506 Program Leadership and Management</td>
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<td>SOCWRK 525 Advanced Social Work Interventions II:</td>
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<td>Individuals and Families</td>
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<tr>
<td>SOCWRK 526 The Evaluation &amp; Treatment of Mental Disorders</td>
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<td>SOCWRK 532 Adv Research: Program &amp; Practice Evaluation</td>
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<td>SOCWRK 550 Adv Interventions I: Comparative Theories</td>
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<td>SOCWRK 575 Advanced Social Work Practicum I</td>
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</table>

*Specialization Electives (2 credits each)*

Selected Topics

(Elective options will vary from year to year, and may include these or other pertinent topics.)

- Child Welfare
- Health Issues
- School Social Work
- Social Work with the Elderly
- Substance Abuse
- Trauma Informed Practice

Curriculum Guidelines established by the Council on Social Work Education are available in the School of Social Work office.

### Advanced Standing Admission Requirements

Applicants who are graduates of a CSWE accredited baccalaureate program in Social Work may request admission to the advanced program. The advanced standing option is a eleven-month program.

Criteria for admission for Advanced Standing study in the MSW program are:

1. Graduation from a CSWE accredited baccalaureate social work program.
2. Minimum GPA of 3.00 in social work courses from an accredited undergraduate program. Applicants with an individual social work course with a grade less than C will be required to complete additional equivalent content.
3. This degree must have been completed within five years of the applicant’s planned entry into Boise State University’s MSW program OR within seven years if the applicant has substantial paid social work experience.
4. All other requirements equivalent to regular admissions.

Applicants may not receive academic credit for work experience in the field.

### Degree Requirements

#### Master of Social Work—Advanced Standing

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Summer Session</strong></td>
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<tr>
<td>SOCWRK 513 Advanced Issues in Human Diversity</td>
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<tr>
<td>SOCWRK 529 Research and Statistics for Social Work</td>
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<tr>
<td><strong>Advanced Year</strong></td>
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<tr>
<td>SOCWRK 506 Program Leadership and Management</td>
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<tr>
<td>SOCWRK 525 Advanced Social Work Interventions II:</td>
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<tr>
<td>Individuals and Families</td>
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<td>SOCWRK 526 The Evaluation &amp; Treatment of Mental Disorders</td>
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<tr>
<td>SOCWRK 532 Adv Research: Program &amp; Practice Evaluation</td>
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<td>SOCWRK 550 Adv Interventions I: Comparative Theories</td>
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<td>SOCWRK 575 Advanced Social Work Practicum I</td>
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<td>SOCWRK 576 Advanced Social Work Practicum II</td>
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<td>SOCWRK 578 Advanced Practicum Seminar II</td>
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<td><strong>Total</strong></td>
<td>37</td>
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</table>

*Specialization Electives (2 credits each)*

Selected Topics

(Elective options will vary from year to year, and may include these or other pertinent issues.)

- Child Welfare
- Health Issues
- School Social Work
- Social Work with the Elderly
- Substance Abuse
- Trauma Informed Practice

Curriculum Guidelines established by the Council on Social Work Education are available in the School of Social Work office.
Course Offerings

**REFUGEE—Refugee Services**

**REFUGEE 507 (SOCWRK 507) INTRODUCTION TO REFUGEE PROGRAM SUPERVISION AND MANAGEMENT (3-0-3)(S).** Supervision and management knowledge and skills for agencies serving refugee clients. Financing, grant writing, budget management as well as supervision, staff retention strategies, managing vicarious trauma, workload management and outcomes monitoring. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: SOCWRK 517 or SOCWRK 518; and SOCWRK 510 or SOCWRK 511.

**REFUGEE 508 (SOCWRK 508) ADVANCED REFUGEE MACRO PRACTICE (3-0-3)(F).** Covers the current policy and issues related to refugee resettlement, follows any legislation related to refugees that is in process at the federal and state levels, and teaches strategies for effective community change and advocacy. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: SOCWRK 517 or SOCWRK 518; and SOCWRK 510 or SOCWRK 511.

**REFUGEE 509 (SOCWRK 509) MANAGEMENT OF CLINICAL SERVICES FOR REFUGEES (3-0-3)(S).** Teaches non-clinical administrators, managers and supervisors about clinical services in health and mental health programs serving refugee clients. Examines best practice and cross-cultural health and mental health programs. Prepares supervisors and managers for informed decision-making, problem-solving, policy development and advocacy. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: REFUGEE 507 or SOCWRK 507; and REFUGEE 517 or SOCWRK 517; and SOCWRK 510 or SOCWRK 511.

**REFUGEE 510 (SOCWRK 510) REFUGEE SERVICES CAPSTONE (3-0-3)(S).** Prepares students to develop a professional portfolio and service project with refugees. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: REFUGEE 507 or SOCWRK 507 or SOCWRK 519 or equivalent; and REFUGEE 517 or SOCWRK 517; and REFUGEE 510 or SOCWRK 511.

**REFUGEE 517 (SOCWRK 517) PRINCIPLES OF REFUGEE RESettlement (3-0-3)(F/S).** Explores the resettlement process in the United States. Provides knowledge and skills needed to assist in the resettlement experience of refugees. Examination of personal values and beliefs and their impacts on practice are integral. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: Admission to MSW program or PERM/INST.

**REFUGEE 518 (SOCWRK 518) WORKING ACROSS CULTURES WITH REFUGEES (3-0-3)(F/S).** Provides a framework and skills practice for effective and competent cross-cultural practice with refugees in the human services. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: Admission to MSW program or PERM/INST.

**REFUGEE 519 (SOCWRK 519) CASE MANAGEMENT WITH REFUGEES (3-0-3)(S).** Case management knowledge and skills as applied in refugee serving agencies such as refugee resettlement, health settings and mental health agencies. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: Admission to MSW program or PERM/INST.

**SOCWRK—Social Work**

**SOCWRK 503 FOUNDATION SOCIAL WORK PRACTICE I: INDIVIDUALS (3-0-3)(F,S,SU).** This is the first practice course within the foundation year of the MSW program. Practice I introduces students to values, knowledge, skills and competencies for generalist practice with individuals. Students practice key skills that include engagement, interviewing, assessment, contracting, intervention, recording, and the use of consultation and supervision in the context of social work values and ethics and affirming working relationships. PREREQ: Admission to MSW Program. PRE/Coreq: SOCWRK 512.

**SOCWRK 504 FOUNDATION SOCIAL WORK PRACTICE II: FAMILIES AND GROUPS (3-0-3)(F,S,SU).** This is the second generalist practice course within the three-course practice sequence in the foundation year. This course builds on the foundational skills gained through successful completion of Practice I. Practice II introduces competencies required for social work practice with diverse families and small groups. PREREQ: SOCWRK 503.

**SOCWRK 505 FOUNDATION OF SOCIAL WELFARE POLICY (3-0-3)(F,S,SU).** Critically examines contemporary welfare policies, in a value-analytic framework, and in the context of the United States and international political economies. Emphasis is placed on values of equity, adequacy, and universality of access to basic social and economic security. Policy practice skills include identification and evaluation of policy problems, including their empirical and value dimensions, and skills in policy advocacy with legislators and with the general public. Major importance is placed on policies and programs that impact populations-at-risk. PREREQ: Admission to MSW Program.

**SOCWRK 506 PROGRAM LEADERSHIP AND MANAGEMENT (3-0-3)(F,S,SU).** This advanced course is designed to prepare students with the knowledge and skills for management and leadership in social service programs. PREREQ: SOCWRK 505 or admission to Advanced Standing MSW Program.

**SOCWRK 507 (REFUGEE 507) INTRODUCTION TO REFUGEE PROGRAM SUPERVISION AND MANAGEMENT (3-0-3)(S).** Supervision and management knowledge and skills for agencies serving refugee clients. Financing, grant writing, budget management as well as supervision, staff retention strategies, managing vicarious trauma, workload management and outcomes monitoring. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: REFUGEE 507 or SOCWRK 507; and REFUGEE 510 or SOCWRK 510; and SOCWRK 512 or SOCWRK 518.

**SOCWRK 508 (REFUGEE 508) ADVANCED REFUGEE MACRO PRACTICE (3-0-3)(F).** Covers the current policy and issues related to refugee resettlement, follows any legislation related to refugees that is in process at the federal and state levels, and teaches strategies for effective community change and advocacy. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: REFUGEE 517 or SOCWRK 517; and REFUGEE 510 or SOCWRK 510; and REFUGEE 518 or SOCWRK 518.

**SOCWRK 509 (REFUGEE 509) MANAGEMENT OF CLINICAL SERVICES FOR REFUGEES (3-0-3)(S).** Teaches non-clinical administrators, managers and supervisors about clinical services in health and mental health programs serving refugee clients. Examines best practice and cross-cultural health and mental health programs. Prepares supervisors and managers for informed decision-making, problem-solving, policy development and advocacy. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: Admission to MSW program or PERM/INST.

**SOCWRK 510 (REFUGEE 510) REFUGEE SERVICES CAPSTONE (3-0-3)(S).** Prepares students to develop a professional portfolio and service project with refugees. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: REFUGEE 507 or SOCWRK 507 or SOCWRK 519 or equivalent; and REFUGEE 517 or SOCWRK 517; and REFUGEE 510 or SOCWRK 511.

**SOCWRK 517 (SOCWRK 517) PRINCIPLES OF REFUGEE RESettlement (3-0-3)(F/S).** Explores the resettlement process in the United States. Provides knowledge and skills needed to assist in the resettlement experience of refugees. Examination of personal values and beliefs and their impacts on practice are integral. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: Admission to MSW program or PERM/INST.

**SOCWRK 518 (SOCWRK 518) WORKING ACROSS CULTURES WITH REFUGEES (3-0-3)(F/S).** Provides a framework and skills practice for effective and competent cross-cultural practice with refugees in the human services. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: Admission to MSW program or PERM/INST.

**SOCWRK 519 (SOCWRK 519) CASE MANAGEMENT WITH REFUGEES (3-0-3)(S).** Case management knowledge and skills as applied in refugee serving agencies such as refugee resettlement, health settings and mental health agencies. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: Admission to MSW program or PERM/INST.

**SOCWRK 521 HBSE I HUMAN DEVELOPMENT THROUGH THE LIFE CYCLE (3-0-3)(F,S,SU).** Provides knowledge of empirically based theories that focus on the interactions between and among individuals, groups, societies and economic systems. Students learn and apply life span theories and knowledge. Examines social systems in which people live and their influence in maintaining or achieving health and well-being. Explores the consequences of difference on a person's life experiences. PREREQ: Admission to MSW Program.

**SOCWRK 531 ADVANCED ISSUES IN HUMAN DIVERSITY (3-0-3)(F,S,SU).** Provides learning opportunities to increase knowledge to effectively work with persons from diverse backgrounds. A highly experiential course requiring overt and candid investigation of personal identity development and
its impact on social work practice with persons from diverse backgrounds. PREREQ: Admission to Advanced Standing MSW Program.

SOCWRK 514 ETHNICITY, GENDER, AND CLASS (2-0-2)(FS,SU).
This experiential course in a small group format is designed to provide a positive environment for students’ exploration of their attitudes toward human diversity. Students will increase their knowledge and awareness of the experiences of people of oppressed groups, in relation to historical prejudice and discrimination. Students will gain insight in sociothorical and familial roots of their own biases and increase their ability to sensitively work with individuals and groups, who are subjected to oppression, based on race, ethnicity, gender, sexual orientation, class, and other stigmatizing characteristics. PREREQ: Admission to MSW Program.

SOCWRK 515 FOUNDATION SOCIAL WORK PRACTICE III: ORGANIZATIONS AND COMMUNITIES (3-0-3)(FS,SU).
This is the third generalist practice course within the foundation year of the MSW program. Practice III introduces students to theories and skills required for social work practice in organizational and community settings. Using organizations and communities as settings for social work practice and targets of change, and based on social work values and ethics, students learn strategies and skills for assessment and intervention. Conceptual models of macro change are examined including social planning, community organizing, social action, and community/organizational development and change. PREREQ: SOCWRK 503. PRE/Coreq: SOCWRK 504, SOCWRK 521.

SOCWRK 517 (REFUGEE 517) PRINCIPLES OF REFUGEE RESETTLEMENT (3-0-3)(FS). Explores the resettlement process in the United States. Provides knowledge and skills needed to assist in the resettlement experience of refugees. Examination of personal values and beliefs and their impacts on practice are integral. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: Admission to MSW program or PERM/INST.

SOCWRK 518 (REFUGEE 518) WORKING ACROSS CULTURES WITH REFUGEES (3-0-3)(FS). Provides a framework and skills practice for effective and competent cross-cultural practice with refugees in the human services. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: Admission to MSW program or PERM/INST.

SOCWRK 519 (REFUGEE 519) CASE MANAGEMENT WITH REFUGEES (3-0-3)(S).
Case management knowledge and skills as applied in refugee serving agencies such as refugee resettlement, health settings and mental health agencies. May be taken for credit in REFUGEE or SOCWRK but not both. PREREQ: Admission to MSW program or PERM/INST.

SOCWRK 521 HBSE II SOCIAL DIMENSIONS OF HUMAN BEHAVIOR (3-0-3)(FS,SU).
Utilizes a variety of theoretical perspectives to examine the impact of social systems and institutions on human behavior. Draws on traditional and alternative/conflict theoretical perspectives and the role of systemic oppression and discrimination to examine how experiences differ across factors such as race/ethnicity, immigration status, gender, gender identity/expression, sexual orientation, ability, social and economic status, political ideology, and religiosity/spirituality. Examines strategies designed to eliminate oppressive structural barriers and ensure human rights are protected. PREREQ: SOCWRK 512.

SOCWRK 522 BEREAVED CHILDREN (3-0-3)(FS,SU).
An intensive service-learning hybrid course built on the premise that individual citizens have both the opportunity and responsibility to be involved in addressing community problems. Using a human development theoretical framework, students create and implement age appropriate individual, group and community-focused grief activities to support a bereavement camp curriculum. Requirements include attending four class sessions, camp orientation, and committee meetings throughout the summer, and a one day camp session. PREREQ: PERM/INST.

SOCWRK 525 ADVANCED SOCIAL WORK INTERVENTIONS II: INDIVIDUALS AND FAMILIES (3-0-3)(FS,SU).
This is the second practice course in the concentration year of the MSW program. Builds and expands upon knowledge gained through successful completion of all prior courses. Designed to provide students the opportunity to enhance practice skills necessary to provide effective assessment and intervention techniques regarding the more general issues and disorders, which are frequently seen by social workers, such as child maltreatment, substance abuse, and mental health. PREREQ: SOCWRK 550. COREQ: SOCWRK 576.

SOCWRK 526 THE EVALUATION AND TREATMENT OF MENTAL DISORDERS (3-0-3)(FS,SU).
Provides knowledge and skills needed to assist in the treatment of mental health clients served by social workers, such as child maltreatment, substance abuse, and mental health. PREREQ: SOCWRK 504 or admission to Advanced Standing MSW Program.

SOCWRK 529 RESEARCH AND STATISTICS FOR SOCIAL WORK (3-0-3)(FS,SU).
This is an advanced standing bridge course that enhances student skills and knowledge in foundation research concepts and procedures. Focuses on methods of data processing, analysis, and implications of quantitative and qualitative data to advance social work practice, knowledge, and theory. Use and interpret various statistical procedures for analyzing quantitative and qualitative data. Apply analytic techniques using computer software applications. PREREQ: Admission to Advanced Standing MSW Program.

SOCWRK 530 FOUNDATIONS OF RESEARCH I (2-0-2)(FS,SU).
This is the first of a two-course sequence on foundations of research and analysis. It is designed to provide students with the knowledge base and skills for using scientific method to advance social work practice, knowledge, and theory. The course covers qualitative and quantitative methods. Content includes conceptualization, operationalization, design, sampling, measurement, data collection, use of results, and ethical considerations including how research affects diverse populations. PREREQ: Admission to MSW Program.

SOCWRK 531 FOUNDATIONS OF RESEARCH II (2-0-2)(FS,SU).
This is the second course in a two-course sequence on foundations of research and analysis. This course focuses on methods of analysis, and implications of quantitative and qualitative data to advance social work practice, knowledge, and theory. Students learn to use and interpret various statistical procedures for analyzing quantitative data, including univariate, bivariate, and multivariate analysis, and analysis for qualitative data. Students apply analytic techniques using computer software applications. PREREQ: Admission to MSW Program, SOCWRK 530.

SOCWRK 532 ADVANCED RESEARCH: PROGRAM AND PRACTICE EVALUATION (3-0-3)(FS,SU).
This course builds on basic understanding of quantitative and qualitative research methods and analysis. Students gain knowledge and skills to use appropriate research methods for empirically based knowledge building and to enhance program and practice effectiveness. Content includes single system and group design and formative and summative approaches to practice and program evaluation. PRE/Coreq: SOCWRK 529 or SOCWRK 531.

SOCWRK 550 ADVANCED INTERVENTIONS I: COMPARATIVE THEORIES (3-0-3)(FS,SU).
This is the first practice course in the concentration year of the MSW Program, which focuses on individuals and families. This course builds upon the generalist foundation and advances student knowledge of theoretical frameworks used in social work practice to bring about change with individuals and families. Students will examine practice implications of different theoretical frameworks with particular attention to the efficacy of those theoretical and practice models with oppressed and at-risk populations. In addition, empirically based interventions, critical aspects of the therapeutic relationship, which promote growth and bring about change, and the application of social work values and evaluation of practice are areas of focus. PREREQ: Admission to Advanced Standing MSW Program or SOCWRK 503, SOCWRK 504, and SOCWRK 515. COREQ: SOCWRK 575.

SOCWRK 561 CORE CONCEPTS IN TRAUMA-INFORMED CHILD WELFARE PRACTICE (2-0-2)(FS,SU).
Introduces students to the core concepts (general theory and foundational knowledge), informing evidence-
Social work practice is explored in the context of the psychosocial consequences in work with individual clients, families, groups, and interdisciplinary teams. Examines advanced practice skills and inter exercise of judgment in regard to unique practice situations. (Pass/Fail.) PRE/ effective reactions, and that is informed by knowledge, values, skills and cognitive and a.

In addition, students doing field work will be able to demonstrate competence within a generalist framework across micro, mezzo and macro areas of practice. Opportunity for students to apply what they have learned in the classroom to the level of functioning of primary care-giving environments and the capacity of the community and child welfare system to facilitate restorative processes.

**SOCWRK 562 SCHOOL SOCIAL WORK (2-0-2)(F,S,SU).** To develop an in-depth understanding of school social work skills and knowledge. Emphasis on school social work from a point of view that incorporates knowledge and values from a broad range of social work theoretical approaches. PREREQ: SOCWRK 521, or SOCWRK 513 and SOCWRK 529.

**SOCWRK 563 SUBSTANCE USE AND OTHER ADDICTIVE DISORDERS (2-0-2)(F,S,SU).** Provides an overview of chemical dependency and process addictions including: public policy, theories of prevention and addiction, screening and assessment, evidence-based treatment, the physiology and psychology of addiction, and the effects of drugs on the individual, family, and society. PREREQ: SOCWRK 521, or SOCWRK 513 and SOCWRK 529.

**SOCWRK 564 AGING (2-0-2)(F,S,SU).** Includes policy issues and services that should be available to all aged, and special services that are essential for the frail, impaired, or isolated elderly. Available programs are explored, including local organizations and related social services. Emphasis on strengths-based social work practice. PREREQ: SOCWRK 550.

**SOCWRK 565 SOCIAL WORK IN HEALTHCARE (2-0-2)(F,S,SU).** Building on core knowledge common to all fields of practice, this course examines advanced practice skills and interventions relevant to health care settings in work with individual clients, families, groups, and interdisciplinary teams. Social work practice is explored in the context of the psychosocial consequences of illness and current health care delivery. PREREQ: SOCWRK 550.


**SOCWRK 567 CHILD WELFARE PRACTICE (2-0-2)(F,S,SU).** Examines the child welfare system within the context of its historical development, current policy, and professional competencies required for social work practice. Focuses on child welfare services, roles of advanced social work professionals, and how to apply a clinical lens in work with children, youth, and families. PREREQ: SOCWRK 521, or SOCWRK 513 and SOCWRK 529.

**SOCWRK 570 FOUNDATION FIELD WORK I (0-15-2)(F,S,SU).** Opportunity for students to apply what they have learned in the classroom to an area of practice within the field of social work, which includes working within a generalist framework across micro, mezzo and macro areas of practice. In addition, students doing field work will be able to demonstrate competence that is informed by knowledge, values, skills and cognitive and affective processes that include the student’s critical thinking, affective reactions, and exercise of judgment in regard to unique practice situations. (Pass/Fail.) PRE/ COREQ SOCWRK 503 and admission to the MSW Program. COREQ: SOCWRK 573.

**SOCWRK 571 (COUN 571)(MHLTHSCI 571) FUNDAMENTALS OF HEALTHY AGING (3-0-3)(F,S,SU).** Overview of gerontology presented by examining major issues related to aging. Content includes theories of aging: the impact of an aging population; and future implications at local, national, and international levels. May be taken as COUN, MHLTHSCI or SOCWRK credit, but only for one department.

**SOCWRK 572 FOUNDATION FIELD WORK II (0-15-2)(F,S,SU).** Continuation of SOCWRK 570. (Pass/Fail.) PREREQ: SOCWRK 503, SOCWRK 570, and admission to the MSW Program. PRE/COREQ: SOCWRK 504. COREQ: SOCWRK 574.

**SOCWRK 573 FOUNDATION PRACTICUM SEMINAR I (1-0-1)(F,S,SU).** Provides a forum for students to integrate, synthesize, and apply classroom content with the practical world of the field/practice setting. Fostering a generalist practice perspective, provides a supportive group setting to develop professional identity, self-awareness, self-care, empathy, and critical inquiry and awareness. Students will explore the use of social work values and ethics, examine best practices, and consider diverse experiences, along with processing and evaluation of personal behaviors within the context of field. PREREQ: Admission to the MSW Program. COREQ: SOCWRK 570.

**SOCWRK 574 FOUNDATION PRACTICUM SEMINAR II (1-0-1)(F,S,SU).** Continuation of SOCWRK 573. PREREQ: SOCWRK 503, SOCWRK 570, and admission to the MSW Program. COREQ: SOCWRK 572.

**SOCWRK 575 ADVANCED SOCIAL WORK PRACTICUM I (0-20-5)(F,S,SU).** Provides students with a supervised social work practical experience in a social service agency under the direct supervision of a licensed social worker. Includes experiential learning in direct practice with individuals and families. (Pass/Fail.) PREREQ: SOCWRK 572 or admission to the MSW Advanced Standing Program. COREQ: SOCWRK 577.

**SOCWRK 576 ADVANCED SOCIAL WORK PRACTICUM II (0-20-5)(F,S,SU).** Continuation of SOCWRK 575. (Pass/Fail.) PREREQ: Admission to MSW Program, SOCWRK 575. COREQ: SOCWRK 578.

**SOCWRK 577 ADVANCED PRACTICUM SEMINAR I (1-0-1)(F,S,SU).** Integrative seminar that facilitates development of advanced direct social work practice knowledge, skills and values with individuals and families. PREREQ: SOCWRK 572 or admission to the MSW Advanced Standing Program. COREQ: SOCWRK 575.

**SOCWRK 578 ADVANCED PRACTICUM SEMINAR II (1-0-1)(F,S,SU).** Continuation of SOCWRK 577. PREREQ: Admission to MSW Program, SOCWRK 575, SOCWRK 577. COREQ: SOCWRK 576.

**SELECTED TOPICS (1-4 Variable).** To be offered as staff availability permits:

**SOCWRK 580 SOCIAL WORK WITH DIVERSE POPULATIONS**

**SOCWRK 581 SOCIAL WORK WITH FAMILIES**

**SOCWRK 582 SOCIAL WORK WITH THE ELDERLY**

**SOCWRK 583 SOCIAL WORK WITH SPECIAL NEEDS POPULATIONS**

**SOCWRK 584 SOCIAL WORK WITH CHILDREN AND YOUTH**

**SOCWRK 585 SOCIAL WORK PRACTICE WITH ORGANIZATIONS AND COMMUNITIES**

**SOCWRK 586 SOCIAL WORK WITH GROUPS**

**SOCWRK 587 SOCIAL WORK SUPERVISION**
Department of Theatre, Film, and Creative Writing

College of Arts and Sciences

Chair: Richard Klutsch
Morrison Center, Room C-100
(208) 426-7093 (phone)
theatrearts@boisestate.edu (email)
https://tfcw.boisestate.edu (website)

Graduate Faculty: Corless-Smith, Holmes, Ruskovich, Udall, Wieland

MASTER OF FINE ARTS IN CREATIVE WRITING

Director of Creative Writing: Martin Corless-Smith
Gateway Center, Room 115
(208) 426-7093 (phone)
mfawont@boisestate.edu (email)
https://english.boisestate.edu/mfa/ (website)

General Information

The program offers maximum flexibility for writers seeking a place to focus on their craft. Students pursuing the degree specialize in either fiction or poetry and work closely with the creative writing faculty in workshop and conference settings.

The MFA in Creative Writing from Boise State University represents a student’s mastery of one of the genres of creative writing, as well as a thorough grounding in traditional and contemporary letters. Students work with a faculty of accomplished writers and produce a manuscript of publishable quality during their course of study. While the MFA is the preferred degree for teachers of creative writing, the program at Boise State University also prepares students with courses offered in professional editing and publishing (practicum classes with Ahsahta Press and The Idaho Review), form and theory, as well as with invaluable teaching experience in the creative writing classroom.

The Idaho Review, published by the MFA program, offers a chance for students to work on a national literary journal, either as graduate assistants or through course credit or internship. Students can gain editing experience working for Ahsahta Press, a nationally recognized publisher of poetry. Established in 1974, Ahsahta Press publishes up to three volumes each academic year.

The MFA in Creative Writing program offers a number of Graduate Teaching Assistantships. These assistantships include waivers of tuition and fees, resident or non-resident, and a stipend of over $10,400. Complete applications are due January 15. More information is available from the Director of Creative Writing.

Admission Deadline

• January 15 (fall admission only)

Admission Requirements

Applicants are required to have earned at least a baccalaureate degree from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the International Admissions office and have an undergraduate grade point average (GPA) of 3.00 (based on a 4-point scale) computed for all undergraduate credits from the applicant’s most recent baccalaureate degree.

Application Procedures

A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations). Admission to the program is based on:

1. Official transcripts from all colleges attended.
2. A GPA of at least 3.00 (on a 4-point scale) for the last 60 credits of undergraduate work.
3. A letter of intent explaining your goals pursuing graduate study in creative writing.
4. A writing sample consisting of thirty manuscript pages of fiction or fifteen poems.
5. Three letters of recommendation from professors who are familiar with the applicant’s academic work.

Degree Requirements

The 48-credit Master of Fine Arts in Creative Writing degree offers a combination of classes in creative writing, form and theory of fiction, poetry, and creative non-fiction, professional editing and publishing, book arts, theater, film, and literature.

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<tr>
<th>Master of Fine Arts in Creative Writing</th>
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<tbody>
<tr>
<td>Course Number and Title</td>
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<tr>
<td>Workshops</td>
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<tr>
<td>CW 522 Poetry Writing Workshop</td>
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<tr>
<td>CW 523 Fiction Writing Workshop</td>
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<tr>
<td>CW 524 Creative Nonfiction Writing Workshop</td>
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<td>Students are admitted into the program in one genre of concentration. Four workshops must be taken in this declared genre.</td>
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<tr>
<td>Required Courses</td>
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<tr>
<td>CW 50S Teaching Seminar</td>
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<td>CW 532 Form and Theory of Poetry</td>
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<tr>
<td>CW 533 Form and Theory of Fiction</td>
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<td>CW 534 Form and Theory of Creative Nonfiction Writing</td>
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<td>Students must take at least one Form and Theory course in their concentration. The class may be repeated twice and counted as an elective.</td>
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<tr>
<td>Electives</td>
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<td>CW 507 Small Press Production</td>
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<td>CW 508 Literary Journal Editing and Publishing</td>
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<tr>
<td>CW 509 (ENGL 509) Book Arts</td>
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<td>CW 527 Small Press Production</td>
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<td>Students may choose graduate-level courses from any department with approval of the Director of the Master of Fine Arts in Creative Writing program. Recommended are the Departments of English, and Theatre, Film, and Creative Writing. Cross-genre courses in creative writing allowed with the approval of the Director.</td>
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<td>CW 593 Thesis</td>
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Course Offerings

CW—Creative Writing

ENGL 406G ADVANCED POETRY WRITING (3-0-3)(F/S). Intensive work in writing and critiquing poetry. Students seeking graduate credit will produce a greater quantity and higher quality of original work, will have a separate and more extensive reading list, and will be expected to participate more fully in class activities. May be repeated for up to six credit hours. PREREQ: ENGL 306 or PERM/INST.

ENGL 407G ADVANCED FICTION WRITING (3-0-3)(F/S). Intensive work in writing and critiquing fiction. Students seeking graduate credit will produce a greater quantity and higher quality of original work, will have a separate and more extensive reading list, and will be expected to participate more fully in class activities. May be repeated for up to six credit hours. PREREQ: ENGL 306 or PERM/INST.

CW 505 TEACHING SEMINAR (3-0-3)(F). Theory and practice of teaching college-level introductory creative writing classes for Teaching Assistants in the Creative Writing Program. Readings, preparation of class materials, and practice conducting class. PREREQ: ENGL 306 or PERM/INST.

CW 507 SMALL PRESS PRODUCTION (3-0-3)(S). A practicum course that studies the manuscript selection and preparation, design, editing, distribution, and promotion practices of small presses with the intention of preparing students to write, design, and submit manuscripts for publication. Students acquire hands-on experience with Ahsahta Press. PREREQ: ADM/PROG or PERM/INST.

CW 508 LITERARY JOURNAL EDITING AND PUBLISHING (3-0-3)(F/S). A course that studies literary magazines and journals with the intention of preparing students to submit their own work for publication, as well as develop hands-on editorial skills and experience by assisting with The Idaho Review. May be repeated twice for credit. PREREQ: ADM/PROG or PERM/INST.

CW 509 (ENGL 509) BOOK ARTS (3-0-3)(S). A historical survey of various aspects of bookmaking, including papermaking, typography, printing, binding, and desktop publishing, as well as book distribution/marketing, and production of artist's and eccentric bookworks. Course culminates in production of a classroom edition of each student's original writings or art works in an appropriate format devised by the student. PREREQ: Admission to program or PERM/INST.

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

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

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

CW 527 SMALL PRESS EDITORIAL SEMINAR (3-0-3)(F/S). A practicum course with an emphasis on the editorial processes of a small literary press, this course is for students who have completed CW 507. Students will read, select, copyedit, and proofread manuscripts in consultation with the editor of Ahsahta Press. They will also look at the larger question of creating a “list” for the publisher, taking into account how books may complement each other and how they might be best marketed. May be repeated twice for credit. PREREQ: CW 507 or PERM/INST.

CW 532 FORM AND THEORY OF POETRY (3-0-3)(F/S). An intensive study of aspects of craft in poetry. Course will expose students to particular methods, approaches, and techniques in poetry and their aesthetic effects. May be taken three times for credit. PREREQ: ADM/PROG or PERM/INST.

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

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

Course Offerings

Note: The 500-level courses listed below are not offered on a regular basis. Students interested in these courses should consult with an advisor in the department before completing their application.

COID—College of Innovation and Design

COID 500 HBX CORE IMMERSION AT BOISE STATE (9-0-9)(F/S/SU).
Hybrid course that includes participation in Harvard Business School's online HBX Credential of Readiness course (HBX CORE). Includes a weekly in-person instructor-led class to accompany each week's online lesson. Develops familiarity and foundational skills in areas ranging from data analytics, economics, and accounting. Consists of three concurrent tracks titled Business Analytics, Financial Accounting, and Economics for Managers with online lessons developed by Harvard Business School faculty using real life case examples. Successful completion will receive a Credential of Readiness from HBX in addition to Boise State course credit. (Pass/Fail.) COID 500 cannot be taken for credit after COID 501 or COID 502. PREREQ: Graduate standing, and PERM/INST.

COID 501 HBX CORE IMMERSION AT BOISE STATE I (5-0-5)(F).
Hybrid course that includes participation in Harvard Business School's online HBX Credential of Readiness course (HBX CORE). Includes a weekly 1-hour, in-person, instructor-led class to accompany each week's online lesson. Develops familiarity and foundational skills in areas ranging from basic and intermediate data analytics, economics, and accounting. Consists of three concurrent tracks titled Business Analytics, Financial Accounting, and Economics for Managers with online lessons developed by Harvard Business School faculty using real life case examples. Successful completion will receive a Credential of Readiness from HBX in addition to Boise State course credit. (Pass/Fail.) COID 501 cannot be taken for credit after COID 500. PREREQ: Graduate standing, and PERM/INST.

COID 502 HBX CORE IMMERSION AT BOISE STATE II (4-0-4)(S).
Hybrid course that includes participation in Harvard Business School's online HBX Credential of Readiness course (HBX CORE). Includes a weekly 1-hour, in-person, instructor-led class to accompany each week's online lesson. Develops familiarity and foundational skills in areas ranging from advanced applications of data analytics, economics, and accounting. Consists of three concurrent tracks titled Business Analytics, Financial Accounting, and Economics for Managers with online lessons developed by Harvard Business School faculty using real life case examples. Successful completion of COID 501 and COID 502 will receive the Credential of Readiness from HBX in addition to Boise State course credit. (Pass/Fail.) COID 502 cannot be taken for credit after COID 500. PREREQ: COID 501 and PERM/INST.

ENGR—Engineering Science

ENGR 500 RESEARCH METHODS (1-0-1)(F/S).
Topics include defining a thesis or other research project, library and Internet searching techniques, completing a literature review, preparing a research or project plan, research methods, preparing the thesis proposal, preparing the final thesis or research project document, and preparing a successful oral presentation.

ENGR 525 THE BUSINESS OF TECHNOLOGY (3-0-3)(F).
Gives Engineering and Science graduates a deeper understanding of essential business concepts, a broadened business vocabulary, and greater confidence in communicating with hiring managers and business leaders.

ENGR 560 MANUFACTURING PROCESS CONTROL AND IMPROVEMENT (3-0-3)(S).
Application of statistics in manufacturing to characterize variation, control processes and to improve quality using statistical process control approaches and design of experiments methodologies. Topics covered include control charts, process capability, gage reproducibility and reliability, analysis of variance, acceptance sampling, factorial designs, response surfaces and regression analysis. PREREQ: MATH 360 or MATH 361.

ENGR 575 MICROGRAVITY LEADERSHIP (1-0-1)(F/S).
Advising undergraduate NASA Microgravity University research teams. May be repeated for credit. PREREQ: PERM/INST.

GENDER—Gender Studies

GENDER 580 SELECTED TOPICS IN GENDER STUDIES (3-0-3)(F/S).
Graduate-level studies of a particular topic relating to the field of gender studies.

HES—Human-Environment Systems

HES 500 FOUNDATIONS IN HUMAN-ENVIRONMENT SYSTEMS SCIENCE (3-0-3)(F).
Explores transdisciplinary and collaborative approaches in human-environment systems (HES) science to help solve complex environmental problems facing human society, such as global climate change and natural resource management. Provides students with a foundational understanding of the theories, methods, and applications of HES science.

HES 598 HUMAN-ENVIRONMENT SYSTEMS SEMINAR (1-0-1)(F).
Introduces students to current applied topics in human-environment systems science. Students engage in professional development activities for future careers. May include oral presentations, academic writing, networking, and developing an Internet presence. May be repeated for credit.

HES 600 RESEARCH METHODS IN HUMAN-ENVIRONMENT SYSTEMS SCIENCE (3-0-3)(F).
Introduces methods employed in human-environment systems science. Includes spatial analysis, social science approaches, and agent-based modeling.

HES 610 LANDSCAPE ECOLOGY (3-0-3)(S).
Introduction to the history, theory, quantitative methods, and practical applications of the discipline of landscape ecology. Focuses on the interplay between spatial pattern and process, where it comes from, why it matters, and how it changes through time.

HES 620 AGENT BASED MODELING OF HUMAN-ENVIRONMENT SYSTEMS (3-0-3)(S).
Students use agent-based models to understand and predict dynamics of human-environment systems. Focuses on agent-based approaches as powerful tools in ecological economics, land use science, political science, natural resource management, and sustainability sciences.

ISLE—Intensive Semester Learning Experience

ISLE 550 INTENSIVE SEMESTER LEARNING EXPERIENCE (6-9 credits)(F/S/SU),
Dedicates a semester of coursework to a discrete project. Individually-designed immersive learning experiences encourage creative responses to tangible challenges through the development of creative/research projects. With modeling and mentoring, students work collaboratively and cross-disciplinarily, develop projects from start to finish, present their results, and build relationships with community partners. PREREQ: PERM/INST.
PSYC—Psychology

PSYC 331G THE PSYCHOLOGY OF HEALTH (3-0-3)(F/S). Principles that have emerged from the experimental analysis of behavior will be examined. The principles include, but are not limited to, operant and classical conditioning. The course will deal with applications of these principles to the understanding and change of phobias, obesity, smoking, alcoholism, aberrant sexual behavior, and similar problems. PREREQ: PSYC 101.

PSYC 405G ADVANCED STATISTICAL METHODS (3-0-3)(S). Advanced topics in univariate statistics (for example, repeated measures designs) and multivariate techniques such as discriminant analysis, factor analysis, and principal component analysis. PREREQ: PSYC 321 or equivalent or PERM/INST.

PSYC 421G PSYCHOLOGICAL MEASUREMENT (3-0-3)(F). Theory and nature of psychological measurement together with a survey of types of psychological tests currently used. PREREQ: PSYC 321.

PSYC 438G COMMUNITY PSYCHOLOGY (3-0-3)(ES). Focuses on human and social problems in a systemic context. Primary prevention and community empowerment strategies employed are emphasized for individual, community, and social benefit. A course in research methods or statistics is recommended but not required. PREREQ: PSYC 101.

PSYC 512 LIFESPAN HUMAN DEVELOPMENT (3-0-3)(F). Examines both typical and atypical development across the lifespan using an ecological systems perspective. Topics include the mutual influences and contexts of biological, personality, cognition, social relationships and culture on a variety of age-related issues. PREREQ: Admission to Family Studies Program or PERM/INST.

PSYC 514 DIVERSITY IN FAMILY SYSTEMS (2-0-2)(S/SU). Explores attitudes toward human diversity and includes the acquisition of skills necessary to work sensitively with individuals and groups who are subjected to prejudice and discrimination based on race, ethnicity, gender, sexual orientation, and socioeconomic status. Topics include experiences of people of oppressed groups and sociohistorical roots of biases. PREREQ: Admission to Family Studies Program or PERM/INST.

SOC—Sociology

SOC 500 ADVANCED SOCIAL STATISTICS (3-0-3)(S). The methods of nonparametric statistics in the analysis of sociological data are examined in depth with application to research. PREREQ: SOC 101 and SOC 310 or equivalents as determined by consultation with department chair.

SOC 501 THE SOCIOLOGY OF EDUCATION (3-0-3)(F/S). A sociological analysis of the American school system, its problems and the social forces that shape the schools in contemporary society.

SOC 502 QUALITATIVE SOCIAL RESEARCH METHODS (3-0-3)(F). An intensive course in interpretive social science, covering the practice of fieldwork ethnography, the use of computers in qualitative research, techniques of qualitative data analysis, and the writing of qualitative research reports. PREREQ: Graduate standing.

SOC 510 CONFLICT AND CHANGE IN SOCIO-CULTURAL SYSTEMS (3-0-3)(F/S). Intensive examination of social and cultural change as related to technological evolution, value changes and the resultant conflict in society.

SOC 512 SOCIAL DEMOGRAPHY (3-0-3)(F/S). Techniques and methods for analyzing population growth, trends, and movement as reflected in actuarial data, birth-death rate; mobility, fertility and fecundity as these affect the societal patterns, especially planning for human service programs.

SOC 535 DRUGS IN SOCIETAL CONTEXT (3-0-3)(F/S). This class applies the sociological perspective on social problems to drug use. It examines how different social groups use drugs, attempt to control and prohibit the use of drugs, and the societal effects of using and controlling the use of drugs.

SOC 571 FEMINIST SOCIOLOGICAL THEORY (3-0-3)(F/S). An examination of the major types of feminist theory in Sociology or theory directly useful to sociologists in search of understanding and explaining gender relations. The student will encounter new perspectives in Sociology that arise from the exchange of new ideas, new data, exciting possibilities for social change, and the emergence of new theoretical models to understand gender relations. PREREQ: Graduate standing.

SOC 572 SOCIOLOGY OF AGING (3-0-3) (F/S). The study of aging and age cohorts as they relate to and interact with social structures and processes with an emphasis on the later stages of aging. Topics include ageism within social institutions, the effects of age cohorts on work, education and medicine, and the boomer age cohort.

SOC 595 READING AND CONFERENCE (1-2 credits). Directed reading on selected materials in human services administration and discussion of these materials as arranged and approved through major advisor.
VIP—Vertically Integrated Projects

VIP 500 VERTICALLY INTEGRATED PROJECTS (1-2 credits) (F,S,SU).
Develops important professional and technical skills through work on team-based, research projects. Graduate students serve as project managers and are responsible for modeling the behavior, technical expertise, and leadership of a professional researcher and project leader. Roles include teaching, leading, and developing members of large multidisciplinary design/discovery teams. Course topic is based on the VIP project, and design challenges considered are those necessary for the success of the VIP project. Topics may be repeated up to 6 semesters. Either graded or pass/fail. PREREQ: PERM/INST.

VIP 600 VERTICALLY INTEGRATED PROJECTS (1-2 credits) (F,S).
Reinforces professional and technical skills developed at the 200-500 level through work on team-based, research projects. Doctoral students serve as research leaders (which may include research on dissertation topic) and are responsible for modeling the behavior, technical expertise, and leadership of a professional researcher and project leader while mentoring students of all levels in support of the team's success. Roles include comprehensive project management, objective setting/clarification, role definition and assignment, teaching, leading, mentoring team members, and working with the professor to evaluate team member performance. Course topic is based on the VIP project and design challenges considered are those necessary for the success of the VIP project. Course and topic may be repeated up to 6 semesters for credit. PREREQ: PERM/INST.
Boise State University Graduate Faculty

Full-Time Official Faculty as of April 1, 2017

Note: The date listed is the year of first graduate appointment.

*May chair graduate committees.

A
Ackler, Harold .......................................................... 1987
Clinical Assistant Professor, Materials Science and Engineering; PhD, Massachusetts Institute of Technology
Ahmed-Zaid, Said* .......................................................... 1996
Professor, Electrical and Computer Engineering; PhD, University of Illinois at Urbana-Champaign
Ahrens, Sara M.* .......................................................... 2012
Assistant Professor, Nursing; DNP, Rush University
Allgh, Ali* .......................................................... 2012
Assistant Professor, Biological Sciences; PhD, Washington State University
Alexander, Eric .......................................................... 2017
Assistant Professor, Music; DMA, Boston University
Allen, Michael* .......................................................... 2014
Assistant Professor, Political Science; PhD, Binghamton University
Allen, Robin* .......................................................... 1997
Associate Professor, Social Work; PhD, University of Illinois at Urbana-Champaign
Alfred, Keith W.* .......................................................... 2007
Associate Professor, Early and Special Education; PhD, Vanderbilt University
Aln, Leslie* .......................................................... 1991
Distinguished Professor, Public Policy and Administration; PhD, Colorado State University
AnnieMargaret, Jill* .......................................................... 2006
Assistant Professor, Art, Design, and Visual Studies; MFA, California State University, Long Beach
Anderson, Timothy* .......................................................... 2001
Graduate Program Coordinator and Professor, Computer Science; PhD, Brigham Young University
Anderson, Holly L.* .......................................................... 1989
Professor, Curriculum, Instruction, and Foundational Studies; PhD, Utah State University
Anderson, Jeffrey M.* .......................................................... 2005
Director, Clinical Education and Associate Professor, Respiratory Care; MA, Boise State University
Anson, Robert* .......................................................... 1990
Professor, Information Technology and Supply Chain Management; PhD, Indiana University
Ashley, Amanda* .......................................................... 2011
Assistant Professor, School of Public Service; PhD, University of Pennsylvania
Ashley, Serh* .......................................................... 2012
Assistant Professor, Communication; PhD, University of Missouri
Austman, Kevin D* .......................................................... 2015
Assistant Professor, Chemistry and Biochemistry; PhD, Rice University
Babinkostova, Liljana* .......................................................... 2007
Associate Professor, Mathematics; PhD, University of St. Cyril and Methodius, Macedonia
Bacon, Stephanie* .......................................................... 1998
Professor, Art, Design, and Visual Studies; MFA, Brooklyn College
Baek, Young Kyun* .......................................................... 2011
Professor, Educational Technology; PhD, Georgia State University
Bahnson, Paul R.* .......................................................... 1999
Professor, Accountancy; PhD, University of Utah
Baker, Edward (Ted)* .......................................................... 2002
Associate Professor, Community and Environmental Health; PhD, Temple University
Baldwin, John B.* .......................................................... 1971
Professor, Music; PhD, Michigan State University
Ballenger, Bruce* .......................................................... 1995
Professor, English; PhD, University of New Hampshire
Bartzell, Michael* .......................................................... 1995
Associate Professor, Theatre, Film, and Creative Writing; MFA, Idaho State University
Barber, Jesse R.* .......................................................... 2011
Assistant Professor, Biological Sciences; PhD, Wake Forest University
Barney Smith, Elisa* .......................................................... 1999
Professor, Electrical and Computer Engineering; PhD, Rensselaer Polytechnic Institute
Basu Thakur, Gautam* .......................................................... 2012

B
Babinkostova, Liljana* .......................................................... 2007
Associate Professor, Mathematics; PhD, University of St. Cyril and Methodius, Macedonia
Bacon, Stephanie* .......................................................... 1998
Professor, Art, Design, and Visual Studies; MFA, Brooklyn College
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Professor, Educational Technology; PhD, Georgia State University
Bahnson, Paul R.* .......................................................... 1999
Professor, Accountancy; PhD, University of Utah
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Professor, Music; PhD, Michigan State University
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Professor, English; PhD, University of New Hampshire
Bartzell, Michael* .......................................................... 1995
Associate Professor, Theatre, Film, and Creative Writing; MFA, Idaho State University
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Assistant Professor, Biological Sciences; PhD, Wake Forest University
Barney Smith, Elisa* .......................................................... 1999
Professor, Electrical and Computer Engineering; PhD, Rensselaer Polytechnic Institute
Basu Thakur, Gautam* .......................................................... 2012

Associate Professor, English; PhD, University of Illinois at Urbana-Champaign
Baughn, C. Christopher* .......................................................... 1998
Professor, Management; PhD, Wayne State University
Baxter, Ryan J* .......................................................... 2015
Assistant Professor, Accountancy; PhD, Case Western Reserve University
Beard, Richard S.* .......................................................... 2017
Assistant Research Professor, Biological Sciences; PhD, Idaho State University
Bechard, Marc Joseph* .......................................................... 1983
Distinguished Professor, Biological Sciences; PhD, Washington State University
Belfy, Jeanne Marie* .......................................................... 1983
Graduate Program Coordinator and Professor, Music; PhD, University of Kentucky
Bell, Kenneth* .......................................................... 1997
Associate Professor, Kinesiology; PhD, Virginia Polytechnic Institute and State University
Bellinger, Nina* .......................................................... 2018
Assistant Professor, School of Public Service; PhD, University of Missouri
Bethloff, James* .......................................................... 1993
Professor, Biological Sciences; PhD, Clemson University
Bennet, Shawn* .......................................................... 2004
Professor, Geosciences; PhD, University of Waterloo
Berg, Lynn R.* .......................................................... 1984
Professor, Music; DMA, University of Wisconsin, Madison
Beymer, Lisa* .......................................................... 2017
Clinical Associate Professor, Early and Special Education; EdD, Boise State University
Bieger, John Jr.* .......................................................... 2004
Professor, History; PhD, Boston College
Birdwell, Christopher A.* .......................................................... 2016
Assistant Professor, School of Public Service; PhD, American University
Black, Geoffrey A. .......................................................... 2014
Associate Professor, Economics; PhD, University of Washington
Blaim, Michael* .......................................................... 1982
Professor, Sociology; PhD, University of Colorado
Durham, Leslie ........................................................ 2006
Interim Dean, College of Arts and Sciences, and Professor, Theatre, Film, and Creative Writing; PhD, University of Kansas

Earley, Caroline* .................................................. 2010
Associate Professor, Art, Design, and Visual Studies; MFA, University of Wisconsin–Milwaukee
Echtermeyer, Jennifer N.* 2018
Program Director, College of Health Sciences; MS, University of Texas, Houston
Ekstrand, Michael D.* ............................................. 2016
Assistant Professor, Computer Science; PhD, University of Minnesota

Elder, Thomas .......................................................... 2001
Associate Professor, Art, Design, and Visual Studies; MFA, Iowa State University

Elissas, Meghan* .................................................. 2014
Assistant Professor, Curriculum, Instruction, and Foundational Studies; PhD, University of Arizona

Enright, Esther A. .................................................. 2006
Graduate Program Coordinator and Assistant Professor, Curriculum, Instruction, and Foundational Studies; PhD, University of Michigan

Espeland, Chad* .................................................. 2010
Graduate Program Coordinator and Associate Professor, Art, Design, and Visual Studies; MFA, Southern Illinois University Carbondale

Espin, Susan ............................................................. 2016
Interim Dean, College of Health Sciences; PhD, University of Arizona

Enns, Paul .............................................................. 2011
Graduate Program Coordinator and Assistant Professor, Developmental Education; PhD, University of Montana

Erling, Esther A. ..................................................... 2007
Graduate Program Coordinator and Assistant Professor, Curriculum, Instruction, and Foundational Studies; PhD, University of Michigan

Estrem, Heidi* ..................................................... 2008
Professor, English; PhD, University of Nevada, Reno

Faul, Jerry Alan* ................................................ 2016
Graduate Program Coordinator and Associate Professor, Computer Science; PhD, University of Maryland

Farid, Arvin* ....................................................... 2008
Graduate Program Coordinator and Assistant Professor, Curriculum, Instruction, and Foundational Studies; PhD, University of Arizona

Fails, Jerry Alan* .................................................. 2016
Assistant Professor, Computer Science; PhD, University of Minnesota

Estrem, Heidi* ..................................................... 2008
Assistant Professor, Computer Science; PhD, University of Minnesota

Gallaher, Cara M.* ................................................ 2013
Assistant Professor, Psychology; PhD, University of Nevada, Reno

Galo, Laura L.* ..................................................... 2015
Assistant Professor, Counseling and Psychological Services; PhD, University of Oregon

Garden, Joe* ......................................................... 2015
Assistant Professor, Criminal Justice; PhD, University of South Florida

Gehrke, Pamela* .................................................... 1998
Graduate Program Coordinator and Associate Professor, Counseling and Psychological Services; PhD, University of Oregon

Geohar, Lisa A.* .................................................... 2016
Assistant Professor, Organizational Performance and Workforce Learning; PhD, Arizona State University

Gibson, Jerry W.* .................................................. 2001
Assistant Professor, Early and Special Education; PhD, University of Iowa

Gill, Jill K.* ........................................................... 2000
Professor, History; PhD, University of Pennsylvania, Philadelphia

Gillette, Lane* .................................................... 2013
Assistant Professor, Criminal Justice; PhD, University of South Florida

Glen, Nancy .......................................................... 2008
Interim Chair, Civil Engineering, and Professor, Geosciences; PhD, University of Nevada, Reno

Gooden, Eric S. .................................................... 2015
Assistant Professor, Accountancy; PhD, Florida State University

Grazzini, Elron* ................................................... 2010
Assistant Research Professor, Materials Science and Engineering; PhD, Purdue University

Gray, Lori F* ......................................................... 2017
Assistant Professor, Music; DMA, Arizona State University

Gregory, Bayard O.* ............................................. 2004
Instructor, Public Policy and Administration; PhD, University of Idaho

Greffe-Hall, Stephanie* ....................................... 2015
Clinical Assistant Professor, Nursing; PhD, University of Northern Colorado

Guarino, Joseph C.* .............................................. 2000
Professor, Mechanical and Biomedical Engineering; PhD, University of Idaho

Hageneh, Sara* ........................................................ 2015
Assistant Professor, Curriculum, Instruction, and Foundational Studies; PhD, University of South Florida

Hampson, Gregory* ............................................. 2004
Professor, Biological Sciences; PhD, University of Connecticut

Hampshire, Patricia* ............................................... 2011
Assistant Professor, Early and Special Education; PhD, Indiana University

Hanna, Charles B.* ............................................... 1996
Chair and Professor, Physics; PhD, Stanford University

Hansen, Beau .......................................................... 2018
College of Education; PhD, University of Arizona

Hansen, Mark R.* .................................................. 2007
Professor, Music; DMA, University of North Texas, Denton

Hansen, Marla* ..................................................... 1991
Associate Professor, Theatre, Film, and Creative Writing; MFA, University of Utah

Hardy, Kimberly ..................................................... 2013
Assistant Professor, Psychology; PhD, Michigan State University

Harkness, Daniel* .................................................. 1993
Professor, Social Work; PhD, University of Kansas

Harlander, Jens* .................................................... 2007
Graduate Program Coordinator and Associate Professor, Mathematics; PhD, University of Oregon

Hare, Keith* .......................................................... 2000
Professor, Marketing and Finance; PhD, University of Tennessee, Knoxville

Harvey, Samantha C.* ......................................... 2011
Associate Professor, English; PhD, Cambridge University

Haukegger, Lotti* ................................................... 2015
Associate Professor, Political Science; PhD, Ohio State University

Hayden, Eric J.* .................................................... 2013
Assistant Professor, Biological Sciences; PhD, Portland State University

Floyd, Jeremy W.* ................................................ 2017
Assistant Professor, Early and Special Education; PhD, University of Iowa

Ford, Philip ............................................................ 2015
Clinical Assistant Professor, Kinesiology; PhD, University of Southern Mississippi

Fowler, Nicholas (Luke)* ..................................... 2016
Graduate Program Coordinator and Assistant Professor, Public Policy and Administration; PhD, Mississippi State University

Fox, Francis* ......................................................... 1999
Professor, Art, Design, and Visual Studies; MFA, University of Wyoming

Fraglia, Michael* .................................................. 2014
Graduate Program Coordinator and Assistant Professor, Economics; PhD, Clark University

Frary, Megan* ....................................................... 2005
Graduate Program Coordinator, College Teaching Program and Associate Professor, Materials Science and Engineering; PhD, Massachusetts Institute of Technology

Fredericksen, Elizabeth* ....................................... 1999
Professor, Public Policy and Administration; PhD, Washington State University

Fredericksen, James E.* ......................................... 2008
Graduate Program Coordinator and Associate Professor, English; PhD, Michigan State University

Fremuth, John C.* ................................................ 1986
Professor, Public Policy and Administration; PhD, Colorado State University

Friesen, Norm* .......................................................... 2008
Associate Professor, Educational Technology; PhD, University of Alberta

Fry, Phillip C.* .......................................................... 1987
Professor, Information Technology and Supply Chain Management; PhD, Louisiana State University

Fry, Sara* ............................................................. 2008
Associate Professor, Curriculum, Instruction, and Foundational Studies; PhD, University of Wyoming

Gabard, David* .................................................... 2013
Professor, Curriculum, Instruction, and Foundational Studies; EdD, University of Cincinnati

Gallegos, Cara M.* .................................................. 2013
Assistant Professor, Nursing; PhD, University of New Mexico

Gallo, Laura L.* ..................................................... 2016
Assistant Professor, Counselor Education; PhD, University of Iowa

Gao, Yong* ............................................................. 2008
Assistant Professor, Kinesiology; PhD, University of Illinois at Urbana–Champaign

Gardner, John E.* .................................................... 2000
Director for Energy Efficiency Research, Graduate Program Coordinator and Professor, Mechanical and Biomedical Engineering; PhD, Ohio State University

Garza, Maria Alicia* ............................................... 1997
Associate Professor, World Languages; PhD, University of Arizona

Garrison, Thomas* .................................................. 2005
Chair and Associate Professor, Information Technology and Supply Chain Management; PhD, University of Arizona

Gebke, Lisa A.* ..................................................... 2016
Assistant Professor, Organizational Performance and Workplace Learning; PhD, Arizona State University

Gibson, Terry-Ann Spitzer* ..................................... 1981
Associate Professor, Kinesiology; PhD, University of Idaho

Gill, Jill K.* ........................................................... 2000
Professor, History; PhD, University of Pennsylvania, Philadelphia

Gillette, Lane* .................................................... 2013
Assistant Professor, Criminal Justice; PhD, University of South Florida

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Interim Chair, Civil Engineering, and Professor, Geosciences; PhD, University of Nevada, Reno

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Hansen, Beau .......................................................... 2018
College of Education; PhD, University of Arizona

Hansen, Mark R.* .................................................. 2007
Professor, Music; DMA, University of North Texas, Denton

Hansen, Marla* ..................................................... 1991
Associate Professor, Theatre, Film, and Creative Writing; MFA, University of Utah

Hansen, Matthew* .................................................. 2005
Professor, English; PhD, University of Nebraska

Hansen, Zeynep Kabadayi* ................................... 2008
Associate Dean, College of Business and Economics, Graduate Studies Director and Professor, Economics; PhD, University of Arizona

Hardy, Kimberly ..................................................... 2013
Assistant Professor, Psychology; PhD, Michigan State University

Harkness, Daniel* .................................................. 1993
Professor, Social Work; PhD, University of Kansas

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Harvey, Keith* .......................................................... 2000
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Harvey, Samantha C.* ......................................... 2011
Associate Professor, English; PhD, Cambridge University

Haukegger, Lotti* ................................................... 2015
Associate Professor, Political Science; PhD, Ohio State University

Hayden, Eric J.* .................................................... 2013
Assistant Professor, Biological Sciences; PhD, Portland State University
ADMINISTRATION, FACULTY, AND EMERITI

Heath, Julie* ....................................................... 2007
Professor, Biological Sciences; PhD, University of Florida
Henderson, Heike* ................................................... 1997
Professor, World Languages, PhD, University of California, Davis
Herbeck, Jason R.* ................................................ 2012
Professor, World Languages; PhD, University of Wisconsin–Madison
Hendford, Mary* .................................................... 2003
Associate Professor, Nursing; PhD, University of Idaho, Moscow
Hernandez, Jairo* ................................................... 2012
Assistant Professor, Civil Engineering; PhD, Utah State University
Hicks, Serena ....................................................... 2018
Graduate Program Coordinator and Clinical Faculty, Curriculum, Instruction, and Foundational Studies; PhD, Northwest Nazarene University
Hicks, Manda* ....................................................... 2013
Assistant Professor, Communication; PhD, Bowling Green State University
Hill, Christopher L.* ............................................. 2002
Professor, Anthropology; PhD, Southern Methodist University
Hill, Gregory* ....................................................... 2005
Associate Professor, Public Policy and Administration; PhD, Texas A&M University
Hillard, Thomas M.* ............................................... 2008
Associate Professor, English; PhD, University of Arizona
Hillis, Vicken* ....................................................... 2017
Assistant Professor, College of Innovation and Design; PhD, University of California, Davis
Hirdschla, Cheryl* ................................................ 2008
Associate Professor, English; PhD, Ohio State University
Hodges, Brian* ...................................................... 2008
Associate Professor, Music; DMA, University of North Carolina at Greensboro
Holmes, James* ..................................................... 1999
Professor, Theatre, Film, and Creative Writing; MFA, Warren Wilson College
Holmes, M. Randall* ............................................... 1991
Professor, Mathematics; PhD, State University of New York at Binghamton
Honts, Charles R.* ................................................. 1995
Professor, Psychology; PhD, University of Utah
Hsu, Yan-tian* ....................................................... 2016
Assistant Professor, Computer Science; PhD, Utah State University
Hsu, Yu-Chang* ..................................................... 2011
Associate Professor, Educational Technology; PhD, Pennsylvania State University
Hubbard, Monica* ................................................ 2014
Visiting Assistant Professor, Public Policy and Administration; PhD, Oregon State University
Hubbert, Ann* ....................................................... 2012
Director and Associate Professor, Nursing; PhD, Nebraska Medical Center
Hughes, William L.* .............................................. 2008
Director, Micron School of Materials Science and Engineering and Associate Professor, Materials Science and Engineering; PhD, Georgia Institute of Technology
Humphrey, Michael John* ....................................... 2007
Associate Professor, Early and Special Education; EdD, University of Northern Colorado
Hung, Jui-long (Andy)* ........................................... 2008
Professor, Educational Technology; EdD, Texas Tech University
Huntley, Katherine V* .......................................... 2011
Assistant Professor, History; PhD, University of Leicester
Hurlay, Michael* ................................................... 2010
Assistant Research Professor, Materials Science and Engineering; PhD, University of Virginia
Huston, Virginia* .................................................. 1999
Professor, Sociology; PhD, University of Illinois at Urbana–Champaign
Huson, Royce ...................................................... 2012
Associate Professor, Social Work; PhD, University of Wisconsin–Madison
Hyatt, Troy* ......................................................... 2011
Chair and Associate Professor, Accountancy; PhD, University of Arizona
I
Ibidell, Matthew G.* ............................................... 2016
Associate Professor, Communication; PhD, University of Texas at Arlington
Islam, Samia ......................................................... 2015
Associate Professor, Economics; PhD, West Virginia University
J
Jain, Amit* ........................................................... 1996
Chair, Graduate Program Coordinator; and Associate Professor, Computer Science; PhD, University of Central Florida
Jankowski, Eric* .................................................... 2015
Assistant Professor, Materials Science and Engineering; PhD, University of Michigan
Jirak, James* ......................................................... 1994
Assistant Professor, Music; DA, University of Colorado
Johnson, Benjamin C.* ........................................ 2018
Assistant Professor, Electrical and Computer Engineering; PhD, Cornell University
Johnson, Evelyn* ................................................. 2008
Professor, Early and Special Education; EdD, University of Washington
Johnson, Jeffrey B.* ............................................... 2012
Graduate Program Coordinator and Associate Professor, Geosciences; PhD, University of Washington
Johnson, Tyler G.* ................................................. 2008
Assistant Professor, Kinesiology; PhD, Arizona State University
Jones, Daryl E.* ..................................................... 1986
Director, Interdisciplinary Studies Graduate Program; PhD, Michigan State University
Jorey, Cheryl* ......................................................... 1998
Professor, Biological Sciences; PhD, Johns Hopkins University
Jorgensen, C. Cody* .............................................. 2015
Assistant Professor, Criminal Justice; PhD, University of Texas at Dallas
K
Kang, HyunMee* .................................................... 2017
Assistant Professor, Communication; PhD, Louisiana State University
Kaiser, Uwe* ......................................................... 2001
Chair and Associate Professor, Mathematics; PhD, University of Siegen
Kane, Adrian T.* .................................................... 2012
Professor, World Languages; PhD, University of California–Riverside
Kardong-Edgren, Susan ........................................ 2013
Research Associate Professor, Nursing; PhD, Texas Women’s University
Kaspins, Gaudard* ................................................. 2008
Chair and Professor, Management; PhD, University of Iowa
Keck, Casey* ......................................................... 2012
Associate Chair and Associate Professor, English; PhD, Northern Arizona University
Kelly, Philip P* ....................................................... 2001
Professor, Curriculum, Instruction, and Foundational Studies; PhD, Michigan State University
Kempf, Timothy R. ................................................ 2015
Clinical Assistant Professor; Kinesiology; PhD, Purdue University
Kenaley, Bonnie L. Davis ........................................ 2009
Associate Professor, Social Work; PhD, University of Albany, State University of New York
Kennington, Casey* .............................................. 2016
Assistant Professor, Computer Science; PhD, Universitat Bielefeld
Ketelsen, Kirk L. ..................................................... 2018
Clinical Assistant Professor, Community and Environmental Health
Kettler, Jaclyn J.* .................................................. 2015
Assistant Professor, Political Science; PhD, Rice University
Keys, Kathleen* ..................................................... 2004
Interim Associate Dean, College of Arts and Sciences; Professor, Art, Design, and Visual Studies; PhD, The Ohio State University
Khalan, Mandar* ................................................... 2000
Chair and Associate Professor, Civil Engineering; PhD, University of California, Irvine
Kim, Byung-II* ..................................................... 2006
Professor, Physics; PhD, Seoul National University
King, Laura* ......................................................... 2012
Associate Professor, Criminal Justice; PhD, Indiana University Pennsylvania
King, Matthew D.* ............................................... 2016
Assistant Professor, Chemistry and Biochemistry; PhD, Syracuse University
Kirol, Margareta T.* ............................................. 2000
Associate Professor, Mathematics; PhD, Pennsylvania State University
Klausz, Richard* ................................................... 1992
Chair and Associate Professor, Theatre, Film, and Creative Writing; PhD, Wayne State University
Klein, Joanne* ....................................................... 2001
Professor, History; PhD, Rice University
Kline, Linda* ......................................................... 2000
Chair and Professor, Music; DA, University of Memphis
Knowlton, William B.* .......................................... 2000
Professor, Electrical and Computer Engineering, Materials Science and Engineering; PhD, University of California, Berkeley
Ko, Kyungduk ......................................................... 2004
Associate Professor, Mathematics; PhD, Texas A&M University
Koerst, Peter* ....................................................... 1995
Professor, Biological Sciences; PhD, Idaho State University
Kohn, Matthew J.* ............................................... 2007
Professor, Geosciences; PhD, Rensselaer Polytechnic Institute
Koster, Megan S.* ................................................. 2017
Graduate Program Coordinator and Clinical Assistant Professor, Respiratory Care; EdD, University of New England
Kroes, James R. ...................................................... 2017
Assistant Professor, College of Business and Economics; PhD, Georgia Institute of Technology
Kuang, Wan* ......................................................... 2005
Associate Professor, Electrical and Computer Engineering; PhD, University of Southern California

Landrum, R. Eric* ................................................ 1992
Professor, Psychology; PhD, Southern Illinois University Carbondale
Lane, Julie* ......................................................... 2010
Assistant Professor, Communication; PhD, University of Wisconsin-Madison
Lee, Jaechoul* ....................................................... 2003
Associate Professor, Mathematics; PhD, University of Georgia
Lee, Jeanhoong* ................................................... 2008
Associate Professor, Chemistry and Biochemistry, Materials Science and Engineering; PhD, University of Connecticut
Lee, Lily ............................................................... 2014
Assistant Professor, Art, Design, and Visual Studies; MFA, University of Oregon
LeMaster, Clifford* ............................................. 1990
Professor, Chemistry and Biochemistry; PhD, University of California, Davis

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ADMINISTRATION, FACULTY, AND EMERITI

Lete, Nerea* .......................................................... 2012
Assistant Professor, World Languages; MFA, University of Iowa

Li, Lan* ...................................................................... 2012
Assistant Professor, Materials Science and Engineering; PhD, University of Cambridge

Libby, Lee M.* .......................................................... 1994
Research Professor, Geosciences; MS, University of Wyoming

Ligthy, John Ann Slama* ........................................... 2017
Dean, College of Engineering and Professor; PhD, University of Utah

Liley, Denice Goodrich* ........................................... 1997
Associate Professor, Social Work; PhD, University of Utah

Lincoln, Douglas J.* ................................................ 1980
Professor, Marketing and Finance; PhD, Virginia Polytechnic Institute and State University

Linquist, Eric* ................................................................ 2012
Director, Public Policy Center; PhD, Texas A&M University

Linquist, Paul* .......................................................... 2010
Assistant Research Professor, Materials Science and Engineering; PhD, University of Illinois

Long, Min* .................................................................... 2016
Assistant Professor, Computer Science; PhD, Cornell University

Loo, Sin Ming* ................................................................ 2004
Professor, Electrical and Computer Engineering; PhD, University of Alabama in Huntsville

Loos-Barlett, Nicole .................................................... 2017
Assistant Professor, Nursing; DNP, Brandman University

Loucks, Christine* .................................................... 1989
Chair and Professor, Economics; PhD, Washington State University

Lowe, Scott E.* ........................................................... 2006
Associate Dean, Graduate College and Professor, Economics; PhD, University of California, Santa Barbara

Lowenthal, Patrick R.* ................................................ 2013
Assistant Professor, Educational Technology; PhD, University of Colorado, Denver

Lu, Yang* ..................................................................... 2013
Assistant Professor, Civil Engineering; PhD, Virginia Tech

Luhmanovsky, Lynn* ................................................... 2001
Associate Professor, History; PhD, Indiana University

Lucas, Shelley* .......................................................... 2001
Graduate Program Coordinator and Associate Professor, Kinesiology; PhD, University of Iowa

Lucian, Todd* ............................................................. 2011
Assistant Professor, Mechanical and Biomedical Engineering; PhD, University of Utah

Lyons, Jeffrey* ................................................................ 2016
Assistant Professor, Political Science; PhD, University of Colorado at Boulder

MacDonald, Jason B. .................................................... 2000
Associate Professor, Marketing and Finance; PhD, University of Texas–Pan American

Macomb, Daryl* .......................................................... 2011
Assistant Professor, Criminal Justice; PhD, Sam Houston State University

MacDonald, Jason B.* ................................................ 2000
Assistant Professor, Mechanical and Biomedical Engineering; PhD, Mississippi State University

Marker, Anthony Wayne* ............................................ 2005
Chair, Graduate Program Coordinator, and Professor, Organizational Performance and Workplace Learning; PhD, Indiana University, Bloomington

Marr, John (Jack) ....................................................... 2015
Associate Clinical Professor, College of Business and Economics; MA, University of Chicago

Marsh, Robert L.* ....................................................... 1974
Professor, Criminal Justice; PhD, Sam Houston State University

Marshall, Hans-Peter* ................................................ 2009
Associate Professor, Geosciences; PhD, University of Colorado at Boulder

Martin, Eric M.* .......................................................... 2016
Assistant Professor, Kinesiology; PhD, Michigan State University

Martinez, Michelle Templin* .................................... 2011
Assistant Professor, English; PhD, University of Southern California

Martz, Kim* .............................................................. 2014
Assistant Professor, Management; PhD, University of Louisville

McChesney, John W.* ............................................... 1995
Chair and Associate Professor, Kinesiology; PhD, University of Oregon

McClellan, Lisa* ........................................................ 2001
Graduate Program Coordinator and Professor, History; PhD, University of Texas

McClellan, Erin D.* ..................................................... 2012
Assistant Professor, Communication; PhD, University of Colorado at Boulder

McClellan, John G.* .................................................... 2009
Graduate Program Coordinator and Associate Professor, Communication; PhD, University of Colorado at Boulder

McDonald, Theodore W.* ....................................... 2001
Professor, Community and Environmental Health; PhD, University of Wisconsin–Milwaukee

McDougall, Owen* .................................................... 2008
Chair and Professor, Chemistry and Biochemistry; PhD, University of Utah

McIntosh, John ............................................................ 2008
Associate Professor, Management; PhD, University of Illinois at Urbana Champaign

McNamara, James P.* .............................................. 1997
Chair, Graduate Program Coordinator, and Professor, Geosciences; PhD, Syracuse University

McNutt, D. Brian .......................................................... 2010
Associate Professor, Management; PhD, University of Iowa

Mead, Jodi L.* ............................................................ 2000
Graduate Program Coordinator and Professor, Mathematics; PhD, Arizona State University

Mehrpouyan, Hani* .................................................... 2015
Assistant Professor, Electrical and Computer Engineering; PhD, Queen's University

Mehrpouyan, Hoda* .................................................... 2016
Assistant Professor, Computer Science; PhD, Oregon State University

Méré-Cook, Yvette* .................................................... 2017
Clinical Faculty, Early and Special Education; EdD, University of San Francisco

Michaels, Paul* ......................................................... 1993
Professor, Geosciences; PhD, University of Utah

Midgert, Aida* ............................................................ 2010
Chair and Associate Professor, Counselor Education; PhD, Northern Arizona University

Mikessell, Dylan* ....................................................... 2015
Assistant Professor, Geosciences; PhD, Boise State University

Miller, Nicholas* ...................................................... 1993
Chair and Professor, History; PhD, Indiana University

Miller, Raisa* ............................................................. 2014
Graduate Program Coordinator and Assistant Professor, Counseling Education; PhD, University of North Texas

Mills, Sonder M.* ....................................................... 2006
Associate Professor, Civil Engineering; PhD, University of Iowa

Minch, Robert P.* ...................................................... 1986
Professor, Information Technology and Supply Chain Management; PhD, Texas Tech University

Mishra, Debakanta* .................................................... 2014
Assistant Professor, Civil Engineering; PhD, University of Illinois at Urbana-Champaign

Mitchell, Kristen A.* ................................................ 2007
Associate Professor, Biological Sciences; PhD, Washington State University

Mirkova, Maria I.* ...................................................... 2007
Professor, Electrical and Computer Engineering; PhD, University of Chemical Technology and Metallurgy, Sofia, Bulgaria

Moll, Amy J.* ............................................................ 2000
Professor, Materials Science and Engineering; PhD, University of California, Berkeley

Molony, Nicole* ........................................................ 2005
Graduate Program Coordinator and Professor, Music; DMA, Ohio State University

Moncrief, Gary F.* ..................................................... 1976
Professor, Political Science and Public Policy Administration; PhD, University of Kentucky

Moneyen, Clyde* ....................................................... 2011
Associate Professor, English; PhD, University of Arizona

Moore, Rick Clifton* .................................................. 1994
Professor, Communication; PhD, University of Oregon

Moorecroft, Scott J. ..................................................... 2017
Graduate Program Coordinator and Clinical Assistant Professor, Kinesiology; MA, Boise State University

Moreau, Leslie M. ....................................................... 2007
Associate Professor, Music; DMA, Arizona State University

Moro, Regina R.* ....................................................... 2016
Graduate Program Coordinator and Assistant Professor, Counselor Education; PhD, University of North Carolina at Charlotte

Morrison, Brad E.* ..................................................... 2013
Assistant Professor, Biological Sciences; PhD, University of Texas at Dallas

Most, Marshall* ......................................................... 1987
Associate Professor, Communication; MA, Boise State University

Mosebach, Janet E. ..................................................... 2016
Associate Professor, Accountancy; PhD, University of Arkansas

Mulhern, Margaret* ................................................... 2014
Clinical Assistant Professor, Literacy, Language, and Culture; PhD, University of Illinois at Chicago

Mullens, Peter* .......................................................... 2004
Distinguished Professor, Materials Science and Engineering; PhD, Swiss Federal Institute of Technology

Munger, James C.* ..................................................... 1988
Associate Vice-President, Academic Planning and Professor, Biological Sciences; PhD, University of Arizona

Munger, Roger* ......................................................... 2001
Director of Technical Communication and Professor, English; PhD, Rensselaer Polytechnic Institute

Mukherjee, Partha S. ................................................... 2013
Assistant Professor, Mathematics; PhD, University of Minnesota

Munro, Danielle J.* ................................................... 2015
Assistant Professor, Criminal Justice; PhD, Simon Fraser University

Nagarajan, Rajesh* ..................................................... 2011
Assistant Professor, Chemistry and Biochemistry; PhD, Wesleyan University

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<table>
<thead>
<tr>
<th>Name</th>
<th>Department/Position</th>
<th>Year</th>
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<tbody>
<tr>
<td>Shallo, Todd A.*</td>
<td>Director, Center for Idaho History and Professor, History; PhD, Carnegie-Mellon University</td>
<td>1985</td>
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<tr>
<td>Shannon, Patrick*</td>
<td>Professor, Information Technology and Supply Chain Management; PhD, University of Oregon</td>
<td>1974</td>
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<tr>
<td>Shelton, Brett E.*</td>
<td>Department Head and Professor, Educational Technology; PhD, University of Washington</td>
<td>2013</td>
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<tr>
<td>Shepherd, Dawn*</td>
<td>Associate Professor, English; PhD, North Carolina State University</td>
<td>2012</td>
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<tr>
<td>Sherman, Elena A.*</td>
<td>Assistant Professor, Computer Science; PhD, University of Nebraska, Lincoln</td>
<td>2012</td>
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<tr>
<td>Shim, Jane*</td>
<td>Professor, Kinesiology; EdD, University of Northern Colorado</td>
<td>2001</td>
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<tr>
<td>Shuck, Gail*</td>
<td>Assistant Professor, English; PhD, University of Arizona</td>
<td>2001</td>
</tr>
<tr>
<td>Siebert, Carl F.*</td>
<td>Assistant Professor, Curriculum, Instruction, and Foundational Studies; PhD, Florida State University</td>
<td>2015</td>
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<tr>
<td>Simmonds, Paul J.*</td>
<td>Associate Professor, Materials Science and Engineering; PhD, University of Cambridge</td>
<td>2014</td>
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<td>Simonson, Shaw R.*</td>
<td>Assistant Professor, Kinesiology; EdD, University of Northern Colorado</td>
<td>2008</td>
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<tr>
<td>Smith, James F.*</td>
<td>Graduate Program Coordinator and Professor, Biological Sciences; PhD, University of Wisconsin, Madison</td>
<td>1992</td>
</tr>
<tr>
<td>Smith, Jennifer A.*</td>
<td>Associate Professor, Electrical and Computer Engineering; PhD, University of Idaho; PhD, State University of New York, Albany</td>
<td>2001</td>
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<tr>
<td>Smith, Mary Jarratt*</td>
<td>Assistant Professor, Mathematics; PhD, Montana State University</td>
<td>1987</td>
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<tr>
<td>Smulovitz, Anika*</td>
<td>Professor, Art, Design, and Visual Studies; MFA, University of Wisconsin, Madison</td>
<td>2003</td>
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<tr>
<td>Snelson, Charen Lee*</td>
<td>Graduate Program Coordinator, Associate Chair, and Associate Professor, Educational Technology; EdD, Boise State University</td>
<td>2006</td>
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<tr>
<td>Snopkowski, Kristin*</td>
<td>Assistant Professor, Anthropology; PhD, University of New Mexico</td>
<td>2014</td>
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<tr>
<td>Snow, Jennifer L.*</td>
<td>Assistant Dean and Professor, Curriculum, Instruction, and Foundational Studies; PhD, Pennsylvania State University, University Park</td>
<td>2003</td>
</tr>
<tr>
<td>Son, Eun Hye*</td>
<td>Associate Professor, Literacy, Language, and Culture; PhD, Ohio State University, Columbus</td>
<td>2009</td>
</tr>
<tr>
<td>Souza, Tasha J.*</td>
<td>Associate Director, Center for Teaching and Learning, Graduate Program Coordinator, and Professor, Communication; PhD, University of Washington</td>
<td>2016</td>
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<tr>
<td>Spear, Caile E.*</td>
<td>Professor, Kinesiology; PhD, University of Arkansas</td>
<td>1996</td>
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<tr>
<td>Spelarzos, Francesca*</td>
<td>Assistant Professor, Computer Science; PhD, University of Calabria</td>
<td>2015</td>
</tr>
<tr>
<td>Stephenson, Dale*</td>
<td>Director of Environmental Health and Professor, Community and Environmental Health; PhD, Colorado State University</td>
<td>2003</td>
</tr>
<tr>
<td>Stewart, Roger*</td>
<td>Chair, Graduate Program Coordinator, and Professor, Literacy, Language, and Culture; PhD, Purdue University</td>
<td>1995</td>
</tr>
<tr>
<td>Stieha, Vicki*</td>
<td>Clinical Assistant Professor, Organizational Performance and Workplace Learning; PhD, University of Cincinnati</td>
<td>2015</td>
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<tr>
<td>Struffolussi, Pam*</td>
<td>Associate Professor, Nursing; DNP, Rush University</td>
<td>2012</td>
</tr>
<tr>
<td>Subramaniam, Harish*</td>
<td>Assistant Professor, Electrical and Computer Engineering; PhD, University of Texas at Austin</td>
<td>2016</td>
</tr>
<tr>
<td>Sughe, Jeffrey S.</td>
<td>Assistant Professor, Management; PhD, Rensselaer Polytechnic Institute</td>
<td>2008</td>
</tr>
<tr>
<td>Tabor, Sharon W.*</td>
<td>Professor, Information Technology and Supply Chain Management; PhD, University of North Texas</td>
<td>1999</td>
</tr>
<tr>
<td>Tener, Zachariah*</td>
<td>Associate Professor, Mathematics; PhD, University of Michigan</td>
<td>2011</td>
</tr>
<tr>
<td>Tenne, Dmitri*</td>
<td>Professor, Physics; PhD, Russian Academy of Sciences</td>
<td>2006</td>
</tr>
<tr>
<td>Tennyson, Stephen A.*</td>
<td>Professor, Mechanical and Biomedical Engineering; PhD, Wayne State University</td>
<td>1995</td>
</tr>
<tr>
<td>Terpend, Regis*</td>
<td>Associate Professor, Information Technology and Supply Chain Management; PhD, Arizona State University</td>
<td>2006</td>
</tr>
<tr>
<td>Test, Edward M.*</td>
<td>Chair and Professor, English; PhD, University of California, Santa Barbara</td>
<td>2008</td>
</tr>
<tr>
<td>Thade, Keel W.*</td>
<td>Associate Dean, College of Education, Graduate Program Coordinator, and Professor, Curriculum, Instruction, and Foundational Studies; PhD, University of Washington</td>
<td>2006</td>
</tr>
<tr>
<td>Thorne, Timothy*</td>
<td>Associate Professor, English; PhD, University of Oregon</td>
<td>2013</td>
</tr>
<tr>
<td>Tinker, Juliette*</td>
<td>Professor, Biological Sciences; PhD, University of Iowa</td>
<td>2004</td>
</tr>
<tr>
<td>Toes, Sarah E.*</td>
<td>Professor, Community and Environmental Health; PhD, University of Utah</td>
<td>2000</td>
</tr>
<tr>
<td>Tornello, Joseph F.*</td>
<td>Associate Professor, Music; DMA, University of Kentucky</td>
<td>2011</td>
</tr>
<tr>
<td>Trynock, Laurel*</td>
<td>Associate Professor, Communication; PhD, University of Iowa</td>
<td>1981</td>
</tr>
<tr>
<td>Trespalacios, Jesus*</td>
<td>Associate Research Professor, Materials Science and Engineering; PhD, The University of Sheffield</td>
<td>2013</td>
</tr>
<tr>
<td>Turner, Lee Ann*</td>
<td>Chair and Professor, Art, Design, and Visual Studies; PhD, University of Pennsylvania</td>
<td>1996</td>
</tr>
<tr>
<td>Turner, Lindsey R.*</td>
<td>Research Associate Professor, College of Education; PhD, University of Illinois at Chicago</td>
<td>2014</td>
</tr>
<tr>
<td>TWight, Charlotte*</td>
<td>Professor, Economics; PhD, University of Washington</td>
<td>1986</td>
</tr>
<tr>
<td>Ubic, Rick*</td>
<td>Associate Research Professor, Materials Science and Engineering; PhD, The University of Sheffield</td>
<td>2007</td>
</tr>
<tr>
<td>Vache-Hause, Tammi*</td>
<td>Dean Graduate College and Professor, Psychological Sciences; PhD, Texas A&amp;M</td>
<td>2017</td>
</tr>
<tr>
<td>Vehman, Maximilian*</td>
<td>Instructor, Nursing; MS, University of Texas at Austin</td>
<td>2013</td>
</tr>
<tr>
<td>Viskupic, Karen*</td>
<td>Assistant Professor, Geosciences; PhD, Massachusetts Institute of Technology</td>
<td>2017</td>
</tr>
<tr>
<td>Villachica, Steven W.*</td>
<td>Associate Professor, Organizational Performance and Workplace Learning; PhD, University of Northern Colorado</td>
<td>2007</td>
</tr>
<tr>
<td>Vukelic, Emily*</td>
<td>Associate Professor, History; PhD, University of Arizona</td>
<td>2012</td>
</tr>
<tr>
<td>Walker, David M.*</td>
<td>Assistant Professor, History; PhD, George Washington University</td>
<td>2012</td>
</tr>
<tr>
<td>Walker, Kate*</td>
<td>Assistant Professor, Art, Design, and Visual Studies; MFA, University of Arizona</td>
<td>2011</td>
</tr>
<tr>
<td>Wampler, Brian*</td>
<td>Professor, Political Science; PhD, University of Texas at Austin</td>
<td>2015</td>
</tr>
<tr>
<td>Wang, James E.*</td>
<td>Professor, Management; PhD, University of Minnesota</td>
<td>1996</td>
</tr>
<tr>
<td>Wang, Linda*</td>
<td>Assistant Professor, Mathematics; PhD, Michigan State University</td>
<td>2015</td>
</tr>
<tr>
<td>Wansell, V. Dorey*</td>
<td>Associate Professor, Geosciences; PhD, University of Florida</td>
<td>2015</td>
</tr>
<tr>
<td>Walker, Don*</td>
<td>Associate Professor, Chemistry and Biochemistry; PhD, University of Michigan</td>
<td>2002</td>
</tr>
<tr>
<td>Warner, Lisa*</td>
<td>Assistant Research Professor, Chemistry and Biochemistry; PhD, University of Colorado, Boulder</td>
<td>2015</td>
</tr>
<tr>
<td>Warrenton, Amber*</td>
<td>Assistant Professor, English; PhD, University of Texas at Austin</td>
<td>2017</td>
</tr>
<tr>
<td>Weaver, Jennifer*</td>
<td>Assistant Professor, Psychology; PhD, University of California, Irvine</td>
<td>2012</td>
</tr>
<tr>
<td>Welch, Thad R.*</td>
<td>Professor, Electrical and Computer Engineering; PhD, University of Colorado, Colorado Springs</td>
<td>2008</td>
</tr>
<tr>
<td>Wenner, Julianne A.*</td>
<td>Graduate Program Coordinator and Assistant Professor, Curriculum, Instruction and Foundational Studies; PhD, University of Georgia</td>
<td>2015</td>
</tr>
<tr>
<td>Westover, Jeffrey W.*</td>
<td>Professor, English; PhD, Boston College</td>
<td>2011</td>
</tr>
<tr>
<td>White, Harry*</td>
<td>Professor, Marketing and Finance; PhD, Texas A&amp;M University</td>
<td>1988</td>
</tr>
<tr>
<td>White, Merlin M.*</td>
<td>Professor, Biological Sciences; PhD, University of Kansas</td>
<td>2006</td>
</tr>
<tr>
<td>Wieland, Mitchell*</td>
<td>Graduate Program Coordinator and Professor, English; MFA, University of Alabama</td>
<td>1996</td>
</tr>
<tr>
<td>Wiley, Brian*</td>
<td>Assistant Professor, Art, Design, and Visual Studies; MFA, Minneapolis College of Art and Design</td>
<td>2014</td>
</tr>
<tr>
<td>Wilkins, David E.*</td>
<td>Associate Professor, Geosciences; PhD, University of Utah</td>
<td>2000</td>
</tr>
<tr>
<td>Willhaus, Janet*</td>
<td>Graduate Program Coordinator and Assistant Professor, Nursing; PhD, Washington State University</td>
<td>2015</td>
</tr>
</tbody>
</table>
### Emeriti Faculty

Emeritus faculty who were members of the Graduate Faculty prior to retirement who have been awarded emeritus status by the Graduate Dean.

Note: The list dated is the year of first graduate appointment.

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armstrong, James O.</td>
<td>Lit, Lang, &amp; Culture</td>
<td>1992</td>
</tr>
<tr>
<td>Bart, Robert</td>
<td>PhD, Education</td>
<td>1994</td>
</tr>
<tr>
<td>Barzash, Warren</td>
<td>PhD, Geosciences</td>
<td>1995</td>
</tr>
<tr>
<td>Bodie, Nancy</td>
<td>PhD, Management</td>
<td>2008</td>
</tr>
<tr>
<td>Brudrenell, Ingrid</td>
<td>PhD, Nursing</td>
<td>1991</td>
</tr>
<tr>
<td>Chase, Margaret E.</td>
<td>PhD, Lit, Lang &amp; Cult</td>
<td>2007</td>
</tr>
<tr>
<td>Cook, Devan</td>
<td>PhD, English</td>
<td>1997</td>
</tr>
<tr>
<td>Cox, Marvin</td>
<td>PhD, Communication</td>
<td>1977</td>
</tr>
<tr>
<td>Dawson, Paul</td>
<td>PhD, Mech &amp; Bio Engr</td>
<td>1975</td>
</tr>
<tr>
<td>Eggert, Rudolph</td>
<td>PhD, Mech &amp; Bio Engr</td>
<td>1996</td>
</tr>
<tr>
<td>Emerson-Bowers, P.</td>
<td>PhD, Psychology</td>
<td>1986</td>
</tr>
<tr>
<td>English, Thomas J.</td>
<td>PhD, Accountancy</td>
<td>1987</td>
</tr>
<tr>
<td>Feldman, Alex</td>
<td>PhD, Mathematics</td>
<td>1988</td>
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<tr>
<td>Hanlon, Heather</td>
<td>Ed, Art, Design, and Visual Studies</td>
<td>...</td>
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<tr>
<td>Lather, William C.</td>
<td>PhD, Accountancy</td>
<td>1984</td>
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<tr>
<td>Lindsey, Melinda</td>
<td>PhD, Spec Educ</td>
<td>1987</td>
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<tr>
<td>Locke, Robert A.</td>
<td>PhD, Physics</td>
<td>1971</td>
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<tr>
<td>Martin, Susan D.</td>
<td>Lit, Lang, &amp; Culture</td>
<td>2004</td>
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<tr>
<td>McLaughie, Ed</td>
<td>PhD, Communication</td>
<td>1981</td>
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<tr>
<td>Miller, Margaret</td>
<td>PhD, Coun Educ</td>
<td>1994</td>
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<td>Perlichko, Linda</td>
<td>PhD, Kinesiology</td>
<td>1987</td>
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<tr>
<td>Renner, Celia J.</td>
<td>PhD, Accountancy</td>
<td>2008</td>
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<tr>
<td>Singleter, Ted</td>
<td>PhD, C &amp; I Found Studies</td>
<td>...</td>
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<td>Stein, Stanley</td>
<td>PhD, Lit, Lang &amp; Cult</td>
<td>1992</td>
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<td>Snyder, Walter</td>
<td>PhD, Geosciences</td>
<td>1994</td>
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<td>Stepcich, Donna</td>
<td>PhD, OPWL</td>
<td>1998</td>
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<td>Tyselking, Lee Ann</td>
<td>Lit, Lang, &amp; Culture</td>
<td>1992</td>
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<tr>
<td>Weathersby, James</td>
<td>PhD, Pub Pol &amp; Admin</td>
<td>1989</td>
</tr>
</tbody>
</table>

### Adjunct Grad Faculty

Part-Time Faculty, Faculty from Other Universities, and Personnel from Affiliated Agencies.

Note: The list dated is the year of first graduate appointment.

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Years</th>
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<tbody>
<tr>
<td>Alger S., Mary</td>
<td>PhD, Education</td>
<td>2000</td>
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<tr>
<td>Bandfield, Joshua L.</td>
<td>PhD, Geosciences</td>
<td>2014</td>
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<td>Barbour, Michael K.</td>
<td>PhD, Educational Technology</td>
<td>2011</td>
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<td>Beals, Catherine D.</td>
<td>Ed, Curriculum, Instruction, &amp; Foundational Studies</td>
<td>2016</td>
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<td>Becker, Lesa</td>
<td>PhD, Organizational &amp; Workplace Learning</td>
<td>2014</td>
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<td>Behnam, Ashkan</td>
<td>PhD, Materials Science &amp; Engineering</td>
<td>2014</td>
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<td>Benecocott, George Jr.</td>
<td>PhD, Organizational Performance &amp; Workplace Learning</td>
<td>2016</td>
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<td>Betancourt, Janil</td>
<td>Geosciences</td>
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<td>Bildstein, Keith L.</td>
<td>PhD, Biological Sciences</td>
<td>2006</td>
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<td>Bishy, Michael B.</td>
<td>JD, College of Business and Economics</td>
<td>2017</td>
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<td>Bohach, Carolyn</td>
<td>PhD, Biological Sciences</td>
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<td>Boler, Nicole D.</td>
<td>PhD, Kinesiology</td>
<td>2011</td>
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<td>Bolz, Devin</td>
<td>PhD, Biological Sciences</td>
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<td>Bonnett, John</td>
<td>PhD, Educational Technology</td>
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<td>Boomis, Travis L.</td>
<td>PhD, Biological Sciences</td>
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<td>Bourland, William M.</td>
<td>MD, Biological Sciences</td>
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<td>Brendefur, Fernanda M.</td>
<td>Ed, Education</td>
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<td>Breenbeck, Geoff</td>
<td>PhD, Materials Science &amp; Engineering</td>
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<td>Brown, Karen</td>
<td>PhD, Art, Design, and Visual Studies</td>
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<td>Browning, Nigel</td>
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<td>Bryant, Amy E.</td>
<td>PhD, Biological Sciences</td>
<td>2004</td>
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<td>Budwig, Ralph S.</td>
<td>PhD, Materials Science &amp; Mechanical Biomedical Engineering</td>
<td>2012</td>
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<td>Bullen, Margaret L.</td>
<td>PhD, World Languages</td>
<td>2018</td>
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<td>PhD, Civil Engineering</td>
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<td>Butler, JoAnn</td>
<td>JD, School of Public Service</td>
<td>2011</td>
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<tr>
<td>Butt, Darryl Material Science &amp; Engineering*</td>
<td>2005</td>
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<td>Campbell, Mary L.</td>
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<td>Callahan, Janet</td>
<td>PhD, Materials, Science, and Engineering</td>
<td>2004</td>
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<td>Cardiff, Michael</td>
<td>PhD, Geosciences</td>
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<td>Carlisle, Jay D.</td>
<td>PhD, Biological Sciences</td>
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<tr>
<td>Carver, Dwaine</td>
<td>MDesS, Art, Design, and Visual Studies</td>
<td>2012</td>
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<tr>
<td>Castellano, Isaac M.</td>
<td>PhD, Political Science</td>
<td>2015</td>
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<td>Chari, Indrajit</td>
<td>PhD, Materials Science &amp; Engineering</td>
<td>2009</td>
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<td>Charlot, Patrick</td>
<td>PhD, Curriculum, Instruction, &amp; Foundational Studies</td>
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<tr>
<td>Chauoshi Kapadia</td>
<td>Neg, PhD, Community and Environmental Health</td>
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<td>Clark, John L.</td>
<td>PhD, Biological Sciences</td>
<td>2010</td>
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<td>Cleemans, John D.</td>
<td>PhD, Math</td>
<td>2016</td>
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<td>Coats, Erik R.</td>
<td>PhD, Biological Sciences</td>
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<td>Cobourn, Kelly</td>
<td>PhD, Geosciences</td>
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<td>Cole, James L.</td>
<td>PhD, Materials Science &amp; Engineering</td>
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<td>Coli, Kenneth M.</td>
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<td>Conlon Khan, Lori</td>
<td>Ed, Music</td>
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<td>Connelly, John</td>
<td>PhD, Biological Science</td>
<td>2011</td>
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<td>Conner, Thaddieus W.</td>
<td>PhD, Public Policy &amp; Administration</td>
<td>2016</td>
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Cossel, John Jr., DA, Biological Sciences ............................................................ 2011
Coyle, Joseph P., MD, Respiratory Care ................................................................. 2017
Crowley, James, PhD, Geosciences ................................................................. 2011
Cullen, Nicole, MFA, English ........................................................................ 2015
Curtin, Michael J., MD, Kinesiology ............................................................... 2011

D
Darnell, Matthew, PhD, Kinesiology ................................................................. 2015
Davis, Paul H., PhD, Materials Science & Engineering* .......................................... 2015
Delana, Patrick E., PhD, Business & Economics* .................................................. 2015
Denef, Karolien, PhD, Biological Science .......................................................... 2013
Doerr, Anthony, MFA, English ................................................................. 2011
Donohue, Jack, PhD, Electrical and Computer Engineering .................................. 2015
Dow, Teresa Grey, EdD, Educational Technology ............................................. 2011
Dundan, David C., PhD, Materials Science & Engineering ..................................... 2010

E
Elam, Jeffrey W., PhD, Micron School of Materials Science and Engineering .......... 2018
Ellsworth, Ethan, PhD, Biological Sciences ......................................................... 2016

F
Fakhri, Michael, SJD, School of Public Service .................................................... 2018
Falk, Leslie, DNP, Nursing ................................................................................. 2017
Fernie, Kim, PhD, Biological Sciences ............................................................... 2011
Ferrer, Miguel, PhD, Biological Sciences ............................................................ 2011
Fraender, Elizabeth, DNP, Nursing ................................................................. 2015
Ford, Richard L., PhD, Geosciences ................................................................... 2013
Freder, Jennifer, PhD, Educational Technology ................................................... 2011
Fuller, Mark R., PhD, Biological Science ............................................................. 2015
Fuselier, Edward, PhD, Math .............................................................................. 2015

G
Ganong, Derek, DMA, Music ........................................................................... 2017
Garcia-Cervera, Carla J., PhD, Materials Science & Engineering* ......................... 2016
Garner, Francis “Frank” A., DSc, Materials Science & Engineering* ....................... 2009
Gardner, Stewart, PhD, Political Science ............................................................. 2015
Georgiades, Savvas D., PhD, Social Work .......................................................... 2016
Germino, Matthew, PhD, Biological Sciences* ................................................... 2009
Gibson, David, EdD, Educational Technology .................................................... 2010
Gibson, Terry L., PhD, Chemistry and Biochemistry* ........................................... 2017
Godwin, Lizzandra, PhD, Materials Science & Engineering ............................... 2016
Gozzellaia, Iraiki, PhD, World Languages ............................................................ 2016
Gomez, Luis Eduardo, LLM, World Languages .................................................... 2003
Goswami, Jaydeb, PhD, Materials Science & Engineering* .................................. 2012
 Gould, Russell T., PhD, Anthropology ................................................................. 2016
Graff, Robert, PhD, Anthropology .................................................................... 2015
Greber, Brian, PhD, CoBE Graduate Students ................................................... 2010
Green, Thomas J., PhD, Anthropology ............................................................... 2013
Gregg, Suzanne, EdD, Literature, Language, & Culture ........................................ 2016

H
Hadley, Erik J., PhD, History ......................................................................................... 2014
Haggerty, Roy, PhD, Biological Sciences ............................................................ 2017
Hamilton, Melinda, PhD, Curriculum, Instruction, & Foundational Studies .......... 2013
Hammons, Dave, EdD, Kinesiology .................................................................... 2013
Han, Bangshuai, PhD, Geosciences .................................................................... 2016
Haney, Matthew, PhD, Geosciences* ................................................................. 2010
Hanson, Paul J, PhD, Geosciences* ..................................................................... 2017
Haskell, Chris, EdD, Educational Technology ..................................................... 2012
Harm, J. Eian, EdD, Education ............................................................................. 2014
Havens, Scott, PhD, Geosciences ....................................................................... 2017
Heckman, Emily M., PhD, Materials Science and Engineering* ....................... 2017
Hed, Jill, PhD, Counselor Education ................................................................. 2012
Henderson, Jonathan, PhD, Mechanical & Biomedical Engineering .................. 2015
Hermann, Rebecca, PhD, Biocellular Sciences .................................................. 2015
Herszog, Nicole M., PhD, Anthropology .............................................................. 2017
Hill-Mekoba, Carmen S., DNP, Nursing ............................................................. 2017
Honebeam, Peter C., PhD, Organizational, Performance, & Workplace Learning .... 2016
House, Kendall V., PhD, Anthropology* .............................................................. 2007
Hues, Steven M., PhD, Materials Science & Engineering ...................................... 2016
Hughes, Gwyneth R., PhD, Education ............................................................... 2014
Hunter, Chrisry, DNP, Nursing ........................................................................... 2017
Hypolite, Melody, L., PhD, Social Work .............................................................. 2018

I
Ivey, Christina L., PhD, Communication ............................................................. 2016

J
Jacques, Brian J., PhD, Materials Science & Engineering* .................................... 2016
Johnson, Katherine, PhD, Math ........................................................................ 2013
Johnson, Daniel L., PhD, Electrical and Computer Engineering ......................... 2017
Johnson, Jordan, PhD, Computer Science .......................................................... 2011

K
Katzen, Todd E., PhD, Biological Sciences ......................................................... 2015
Kay, Richard F, PhD, Geosciences* ..................................................................... 2015
Keller, Markus, PhD, Biological Science .......................................................... 2011
Keller-Peck, Cynthia R., PhD, Biological Sciences ............................................... 2002
Kim, Aria, MFA, English* ................................................................................... 2013
Kim, Cheongsun, PhD, School of Public Service ............................................... 2018
Kinnaman, Lisa, EdD, Curriculum, Instruction, & Foundational Studies ............... 2011
Knick, Steven, PhD, Biological Science ......................................................... 1990
Knox, Ellis (Skip), PhD, History ........................................................................... 1990
Koehne, Jessica E., PhD, Micron School of Materials Science and Engineering ...... 2017
Korzh, Anton, PhD, Computer Science ............................................................... 2017
Krohn, Raymond J., PhD, History* ....................................................................... 2012
Krzysz, Timothy R., JD, Business & Economics ................................................... 2015

L
Ladislav, Straka, DSc, Materials Science and Engineering .................................... 2018
Lachinovich, David, PhD, History ....................................................................... 2011
LaFratza, Patrick A., PhD, Computer Science ....................................................... 2014
Lee, Eangee, PhD, Materials Science & Engineering ............................................. 2015
Lessing, Paul A., PhD, Materials Science & Engineering ....................................... 2013
Lessinsohn, Charles, PhD, Materials Science & Engineering .............................. 2014
Lewis, Kirk J., MD, Kinesiology .......................................................................... 2013
Liu, Ahsa, PhD, Geosciences .............................................................................. 2015
Liddle, J., Alexander, DP哲, Materials Science and Engineering ....................... 2017
Limbo, Rana, PhD, Nursing ................................................................................. 2013
Long, Sean P, PhD, Geosciences ........................................................................... 2015
Lung, Mark, PhD, Anthropology ......................................................................... 2018
M
Maldonado, Christine, PhD, Counselor Education .............................................. 2012
Manga, Michael, PhD, Geosciences ................................................................... 2018
Mansfield, Donald H., DA, Biological Sciences ................................................... 2016
Marin-Spiotta, Erika, PhD, Biological Sciences .................................................... 2018
Marlowe, Justin, PhD, Public Policy Administration ............................................. 2017
Martinsen, Rob A, PhD, Curriculum, Instruction, and Foundational Studies ......... 2017
McClellan, Kenneth, PhD, Materials Sciences & Engineering ........................... 2013
McClellan, Christopher J., PhD, Biological Sciences ............................................. 2014
McGuire, Mark A., PhD, Biocellular Sciences ...................................................... 2014
McIlroy, Susan, PhD, Biological Sciences ........................................................... 2016
Medinzi, Igor L., PhD, Materials Science & Engineering ...................................... 2016
Mehta, Runvik, Justin, PhD, Materials Science & Engineering ............................ 2017
Mercaldo, David, EdD, Literature, Language, & Culture ....................................... 2015
Michaud, Michelle, JD, Public Political & Administration ..................................... 2012
Miller, Stephen R., JD, School of Public Service .................................................. 2016
Mitchell, Jessica J., PhD, Geosciences ................................................................. 2013
Monteaglio, Pierre-Olivier, PhD, Biological Sciences ........................................... 2014
Morrau, Barton A., DMA, Music ........................................................................... 2013
Morgan, Clay, MFA, English* ............................................................................. 2011
Morron, Cathy Coleman, EdD, Educational Technology ...................................... 2011
Mukherjee, Rohini, PhD, English ......................................................................... 2013
Murdock, Louis, MD, Kinesiology ...................................................................... 2014
Myers, Kelly, PhD, English .................................................................................. 2013

N
Nadelson, Louis, PhD, Curriculum, Instruction, & Foundational Studies* .......... 2008
Nelson-Marsh, Natalie, PhD, Public Policy & Administration ............................... 2005
Newby, Deborah T., PhD, Biological Sciences ..................................................... 2015
Nickel, Christine, PhD, Educational Technology .................................................. 2015

O
Oestreicher, Cheryl, PhD, History ....................................................................... 2013
Olin, Paul H., PhD, Geosciences ........................................................................ 2011
Olson, Mary K., PhD, Business & Economics ..................................................... 2011
Owalt, Steven, EdD, Curriculum, Instruction, & Foundational Studies* ............... 2014

P
Panarou, Petros, PhD, Literacy, Language, & Culture .......................................... 2016
Park, Susan, JD, Managerial Department ............................................................. 1999
Patricelli, Gail L., PhD, Biological Sciences ........................................................ 2016
Pauli, Benjamin P., PhD, Biological Sciences ...................................................... 2015
Phelps-Omont, Supharomn, PhD, Materials Science & Engineering .................... 2012
Pilliod, David S., PhD, Biological Sciences* ......................................................... 2001
Plasket, Donna, PhD, Education ......................................................................... 1996
Pryor, James R., DNP, Nursing ........................................................................... 2017


ADMINISTRATION, FACULTY, AND EMERITI

Pa, Xinzhu, PhD, Biological Sciences ................................................................. 2013

R
Ramisetti, Srinivasa Babu, PhD, Materials Science & Engineering .................... 2016
Rausch, Joseph, PhD, Biological Sciences ........................................................ 2010
Raynes, Christopher, DMA, Music ................................................................. 2012
Rell, Justine J., PhD, Kinesiology .................................................................. 2011
Reis, Janet, PhD, Nursing .............................................................................. 2014
Reisen, William K., PhD, Biological Sciences .................................................. 2014
Reynolds, Carla E., PhD, Materials Science and Engineering ......................... 2017
Rezaie, Beth (Behnaz), PhD, Mechanical & Biomedical Engineering .......... 2017
Richards, Sam L., DMA, Music .................................................................... 2016
Rickfels, Robert, PhD, Biological Sciences .................................................... 2011
Roark, Scott, PhD, College of Business and Economics ................................. 2017
Roche, Olivier, PhD, Geosciences .................................................................. 2016
Rodgers, David W., PhD, Geosciences ............................................................ 1987
Rodgers, Daryl M., MS, College of Education .............................................. 2017
Rogien, Lawrence, PhD, Curriculum, Instruction, & Foundational Studies ...... 2011
Rogers, J. W., Jr., PhD, Materials Science & Engineering ............................... 2012
Rosenzweig, Roger, PhD, Biological Sciences ................................................ 2005
Rothemund, Paul, PhD, Materials Science & Engineering ............................ 2015
Ruegg, Kristen C., PhD, Biological Sciences* .................................................. 2015

S
Salik, Steven H., PhD, Organizational, Performance, & Workplace Learning .... 2016
Saxena, Vishal, Electronic & Computer Engineering* .................................... 2009
Scheffel, Scott, MD, Kinesiology .................................................................... 2014
Schiappa, Tara Y., PhD, Geosciences ............................................................... 1999
Schill, Daniel, PhD, Biological Sciences .......................................................... 2011
Schroeder, Barbara, EdD, Educational Technology .......................................... 2010
Scoresby, Jon, PhD, Educational Technology .................................................... 2014
Semmelroth, Carrie, EdD, Curriculum, Instruction, & Foundational Studies ..... 2013
Sforza, Rene, PhD, Biological Sciences ........................................................... 2006
Shellie, Krista C., PhD, Biological Sciences ..................................................... 2011
Shinneman, Douglas J., PhD, Geosciences ....................................................... 2010
Shipley, Lisa A., PhD, Biological Sciences ...................................................... 2013
Silak, Cathy, JD, Public Policy ....................................................................... 2006
Sills, Scott, PhD, Materials Science & Engineering ........................................ 2015
Slaughter, Andrew E., PhD, Mechanical & Biomedical Engineering ............ 2014
Smith, Chad A., PhD, School of Public Service ............................................. 2017
Spangler, Theodore, Jr, JD, Public Policy & Administration ..................... 2012
Spencer, Jamison Ross, DMD, Biological Sciences* ....................................... 2006
Steffen, Tom A., DM, College of Education ..................................................... 2018
Stephen, Sharon A., PhD, Nursing ................................................................. 2013
Stevens, Dennis L., PhD, MD, Biological Sciences ........................................ 1998
Storch, Amy, PhD, Social Work ................................................................. 2017

T
Tank, David C., PhD, Biological Sciences ....................................................... 2008

Taylor, Bryan, PhD, Criminal Justice .............................................................. 2016
Tivis, Laura J., PhD, Nursing ........................................................................ 2014
Tonina, Daniele, PhD, Geosciences & Civil Engineering ............................... 2013
Touchton, Michael, PhD, Political Science* .................................................. 2013
Towell, E. Dale, PhD, Biological Science ..................................................... 2004
Townsend, Alex, PhD, Mathematics .............................................................. 2015

U
Ustun, Susan L., PhD, Geosciences ................................................................. 2017

V
VanDusky-Allen, Julie, PhD, Political Science .................................................. 2013
Vucetich, John A., PhD, Biological Science ................................................... 2015

W
Walker, Anne A., PhD, Economics ................................................................. 2017
Waren, Patrick Ian, PhD, Geosciences ............................................................ 2011
Watson, Richard T., PhD, Biological Sciences .............................................. 1990
Webster, Kerri, MFA, English* ................................................................. 2013
Weeks, Emma N., PhD, Biological Sciences .................................................. 2017
Wei, Hsian-Chuen Sharon, PhD, World Languages ........................................ 2012
Wharry, Janelle P., PhD, Materials Science & Engineering* ....................... 2013
Wheeler, Kyle D., Computer Science ............................................................. 2014
Wheeler, William S., JD, Public Policy & Administration .............................. 2006
Whitney, Brian T., EdD, Curriculum, Instruction, & Foundational Studies ..... 2011
Williams, Joy, MFA, English ...................................................................... 2017
Williard, Elizabeth, EdD, Counselor Education ........................................... 2010
Wilson, Elizabeth, PhD, Public Policy & Administration ............................ 2015
Winstral, Adam, PhD, Geosciences ............................................................... 2012
Wong-Ng, Winnie, PhD, Materials Science & Engineering ....................... 2015
Wood, Joshua A., PhD, Materials Science and Engineering ......................... 2018
Wright, Richard N., PhD, Materials Science & Engineering* ....................... 2009
Wu, Yajiao, PhD, Materials Science & Engineering* ...................................... 2012

Y
Yacapin, Maud S., PhD, Educational Technology .......................................... 2016
Yager, Elwyn, PhD, Geosciences .................................................................. 2016
Yensen, Eric, PhD, Biological Sciences* ....................................................... 2002
Yin, Yao, PhD, Public Policy & Administration .......................................... 2012
You, John M., PhD, History ........................................................................ 2017
Yuan, Jinchao, PhD, Mechanical & Biomedical Engineering ...................... 2016

Z
Zadegan, Reza M., PhD, Materials Science & Engineering* ....................... 2017
Zhang, Yanliang, PhD, Micron School of Materials Science and Engineering* 2013

Affiliate Graduate Faculty
Participants in multi-university programs.

Anderson, Shauna, MS, English .................................................................. 2015
Arnold, Daniel C., MA, Counselor Education .............................................. 2017
Atkins, Thomas, MBA, College of Business and Economics ..................... 2017
Baldwin, Sally, MSS, Educational Technology ............................................. 2016
Banducci, Thomas A., JD, College of Business and Economics .................. 2017
Baxter, Kate, MA, History ........................................................................... 2017
Bergeron, Susie, MHS, Community & Environmental Health .................. 2017
Berlin, Michael, MS, Community & Environmental Health ...................... 2011
Betz, Hillary, MA, Public Policy & Administration ....................................... 2012
Bonad, Laura, MS, Biological Sciences .......................................................... 2001
Bracia, Kara H., EdD, Curriculum, Instruction, & Foundational Studies ..... 2016
Brewer, Maureen, MHS, Community & Environmental Health ............... 2011
Brown, Laura, MSW, Social Work ................................................................. 2016
Browning, Kristie, MPA, Public Policy & Administration ......................... 2016
Brunton, Alan, MA, Counselor Education .................................................... 2017
Bubl, Karen, MPA, Public Policy & Administration ....................................... 2015
Burns, Brandi, MAHFR, History ................................................................. 2016
Christensen, Fred, MBA, Accountancy ......................................................... 2003
Chywa, Scott J., BS, Sociology Work ............................................................. 2003
Cockrell, Christopher K., MS, Electrical and Computer Engineering ......... 2017
Collett, Eric D., BS, Community & Environmental Health ...................... 2016
Conant, Dawn, MBA, Business & Economics ........................................... 2015
Connor, Kelley, MSW, Nursing ................................................................. 2015
Crandell, Scott, MSW, Social Work .............................................................. 2016
Curry, Amy M., MEd, Counselor Education .................................................. 2017
Dardis-Kuz, Magen, MSW, Social Work ...................................................... 2016
Eames, Kimi, MSW, Social Work ................................................................. 2016
Elledge, Shirley M., MSW, Public Policy & Administration ....................... 2014
Fitzgerald, Mark, MBA, College of Business and Economics ................... 2017
Gallagher, Brandi, MSW, Social Work ......................................................... 2017
Goode, Jaime K., PhD, Geosciences .............................................................. 2017
Habig, Jeffrey W., PhD, Computer Science .................................................. 2012
Haddon, Valerie E., MSW, Social Work ........................................................ 2018
Haugen, Sally A., MSW, Social Work ............................................................ 2018
Herrman, Philip, MM, Music ........................................................................ 2012
Hatch, Virginia, MA, Criminal Justice ......................................................... 2014
Heath, Gail, MS, Geosciences ..................................................................... 2012
Heilman, Ann, MPA, Public Policy & Administration ................................. 2012
Hill, Carol, MA, Social Work ....................................................................... 2015
Hernandez-Harris, MA, Angie J., Counselor Education ............................... 2017
Hicks, Michelle, PhD, Nursing ................................................................. 2017
Hicks, Serena, MA, Curriculum, Instruction, and Foundational Studies .... 2018
Hodge, Karen, MSN, Nursing ................................................................. 2012
Hunt, J. Brad, MA, Education ..................................................................... 2008
Hyer, Andrew J., Community & Environmental Health ............................ 2012
Iwersen, Kevin W., MS, School of Public Service ....................................... 2018
Jaquet, Wendy, MA, Public Policy & Administration .................................. 2015
Johnston, Josh, MS, Geosciences ................................................................. 2015
Jones, Muffie, MA, Art, Design, and Visual Studies ..................................... 2015
Kaltenecker, Greg, MS, Biological Sciences ................................................ 2007

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<th>Name</th>
<th>Degree, Field</th>
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<td>Kavanaugh, Tara J.</td>
<td>MS, Nursing</td>
<td>2015</td>
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<td>Kennington, Conrad</td>
<td>MS, Computer Science</td>
<td>2012</td>
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<td>Keith, Melisa M.</td>
<td>MA, English</td>
<td>2012</td>
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<tr>
<td>Kelley, Jamie, M.</td>
<td>MSW, Social Work</td>
<td>2013</td>
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<td>Kimmel, Heather, MA</td>
<td>Community &amp; Environmental Health</td>
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<td>Kleinman, Lisa, EdS.</td>
<td>Business &amp; Economics</td>
<td>2015</td>
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<td>Kochert, Michael, N.</td>
<td>MS, Biological Sciences</td>
<td>1987</td>
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<td>Koshlan, Diane T.</td>
<td>MCP, School of Public Service</td>
<td>2008</td>
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<tr>
<td>Lamb, Trisha Stevens</td>
<td>MBA, Business &amp; Economics</td>
<td>2016</td>
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<td>Lang, Nicole, MSW</td>
<td>Social Work</td>
<td>2015</td>
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<td>Lata, G, Patrick, MS</td>
<td>Kinesiology</td>
<td>2002</td>
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<tr>
<td>Legere, Nicole, MSN</td>
<td>Nursing</td>
<td>2017</td>
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<td>Lockett Zubak, Cheryl</td>
<td>MS, Organizational Performance &amp; Workplace Learning</td>
<td>2016</td>
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<td>Lowe, Tim, EdS</td>
<td>Curriculum, Instruction &amp; Foundational Studies</td>
<td>2015</td>
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<tr>
<td>Lyer, Sarah, MA</td>
<td>Counselor Education</td>
<td>2017</td>
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<td>Marcillo, Omar E.</td>
<td>PhD, Geosciences</td>
<td>2016</td>
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<td>Martin, Sue, MSW</td>
<td>Social Work</td>
<td>2007</td>
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<tr>
<td>McCarthy-Jaggi, Jeannie</td>
<td>MHS, Social Work</td>
<td>2012</td>
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<td>McMurray, Martha, MS</td>
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