The graduate catalog describes the graduate programs offered by Boise State University and the policies, procedures, and requirements that govern those programs. Other pertinent university publications are the Boise State University Student Handbook, and the Boise State University Policy Manual. All of these publications are available online at www.boisestate.edu along with the online schedule of classes. Prospective students are also encouraged to contact the graduate program coordinator of the program of interest for additional information.

Policy Statement Concerning Catalog Contents

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

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 In particular, when an instructional program is to be withdrawn, the university will make every reasonable effort to ensure that students who are within two years of completing the graduation requirements, and who are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progress toward the completion of those requirements, will have the opportunity to complete the program, which is to be withdrawn.

It is the policy of Boise State University to provide equal educational and employment opportunities, services, and benefits to students and employees without regard to race, color, national origin, sex, creed, age or handicap in accordance with Title VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Sections 799A and 845 of the Public Health Act, and Sections 503 and 504 of the Rehabilitation Act of 1973, where applicable, as enforced by the U.S. Department of Health, Education, and Welfare.

Note: The courses contained in this catalog do not preclude or limit the university in its offerings for any semester or session nor do they restrict the university to the time block (semester) represented by the approved academic calendar.

Boise State University attempts to respond to the educational needs and wants of any and all students when expressed. Requests for courses to be offered whenever they are desired will be favorably received providing that a minimum of 12 qualified students enrolls in the class and a competent faculty member is available to teach the course.
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### Academic Calendar

#### SUMMER SESSION 2014

For registration information see the Boise State Registration Guide.

#### Deadlines by Session – Summer 2014

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<thead>
<tr>
<th>Session</th>
<th>Fee Payment Deadline</th>
<th>Start Date</th>
<th>Last Date to Add Without Permission Number</th>
<th>Drop Fee Begins</th>
<th>Last Date for Refund &amp; Last Date to Register/Add or Drop Without a W*</th>
<th>Last Date to Drop or Completely Withdraw With a W</th>
<th>Last Date to Drop or Completely Withdraw Without a W*</th>
<th>Last Date of Classroom Instruction</th>
<th>Grades Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st 3 week</td>
<td>May 15</td>
<td>May 19</td>
<td>May 19</td>
<td>May 23</td>
<td>May 20</td>
<td>May 27</td>
<td>June 8</td>
<td>June 10**</td>
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</tr>
<tr>
<td>1st 5 week</td>
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<td>June 9</td>
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<td>June 13</td>
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<td>July 14</td>
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<td>July 13</td>
<td>August 19</td>
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<tr>
<td>1st 8 week</td>
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<td>May 21</td>
<td>May 24</td>
<td>May 23</td>
<td>May 23</td>
<td>June 9</td>
<td>July 13**</td>
<td>August 19</td>
</tr>
<tr>
<td>2nd 8 week</td>
<td>June 5</td>
<td>June 9</td>
<td>June 11</td>
<td>June 14</td>
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<td>June 30</td>
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<td>August 3</td>
<td>August 5**</td>
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<tr>
<td>10 week</td>
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<td>June 9</td>
<td>June 11</td>
<td>June 14</td>
<td>June 17</td>
<td>July 7</td>
<td>August 17</td>
<td>August 19</td>
<td></td>
</tr>
</tbody>
</table>

*Last date to add with permission number, last date to drop or completely withdraw without a W and receive a refund (less a $40.00 processing fee), last date to change from credit-to-audit or audit-to-credit.

**Grades will not be considered official until end of term processing has been completed.

### Important Dates

- **February 18**, Tue: Registration begins for Summer 2014.
- **March 14**, Fri: Recommended last date to submit 2013-2014 Free Application for Federal Student Aid (FAFSA) for consideration for financial aid for Summer 2014.
- **May 15**, Thu: 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.
- **June 26**, Mon: Memorial Day (No classes. University offices closed.)
- **June 11**, Wed: Summer Financial Aid Census Date – eligibility for financial aid determined by number of credits registered on this date.
- **June 12**, Thu: Last day to apply for graduation, using myBoiseState, for graduate and undergraduate degrees and certificates to be awarded in August.
- **June 16**, Mon: Recommended last day for final oral defense of dissertation, thesis, or project for graduate degrees to be awarded in August.
- **June 21**, Sat: Last day for students to work using 2013-2014 work-study awards.
- **June 27**, Fri: Last day to submit Application for Admission to Candidacy form to Graduate Admission and Degree Services for graduate degrees to be awarded in December.
- **July 4**, Fri: Independence Day. (No classes. University offices closed.)
- **July 7**, Mon: Last day to add undergraduate independent study and internship.
- **July 7**, Mon: Last day to add graduate assessment, directed research, independent study, internship, practicum, or reading and conference.
- **July 7**, Mon: Last day to submit review copy of dissertation or thesis with Final Reading Approval form signed by the supervisory committee chair to the Thesis and Dissertation Office for graduate degrees to be awarded in August.
- **July 28**, Mon: Last day to submit Report of Non-Transcripted Culminating Activity form (if needed) to Graduate Admission and Degree Services for graduate degrees to be awarded in August.
- **August 4**, Mon: Last day to submit final copies of dissertation or thesis to the Thesis and Dissertation Office for graduate degrees to be awarded in August.
## Deadlines by Session – Fall 2014

<table>
<thead>
<tr>
<th>Session</th>
<th>Fee Payment Deadline</th>
<th>Start Date</th>
<th>Last Date to Add Without Permission Number</th>
<th>Drop Fee Begins</th>
<th>Last Date for Refund &amp; Last Date to Register/Add or Drop Without a W*</th>
<th>Last Date to Drop or Completely Withdraw With a W. No Refund.</th>
<th>Last Date of Classroom Instruction</th>
<th>Grades Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular</td>
<td>August 21</td>
<td>August 25</td>
<td>August 29</td>
<td>August 31</td>
<td>September 8</td>
<td>October 3</td>
<td>December 12</td>
<td>December 29</td>
</tr>
<tr>
<td>1st 5 week</td>
<td>August 21</td>
<td>August 25</td>
<td>August 29</td>
<td>August 31</td>
<td>September 8</td>
<td>October 3</td>
<td>December 12</td>
<td>December 29</td>
</tr>
<tr>
<td>2nd 5 week</td>
<td>August 29</td>
<td>September 30</td>
<td>November 4</td>
<td>November 7</td>
<td>September 5</td>
<td>October 10</td>
<td>December 12</td>
<td>December 29</td>
</tr>
<tr>
<td>3rd 5 week</td>
<td>August 21</td>
<td>August 25</td>
<td>August 29</td>
<td>August 31</td>
<td>September 5</td>
<td>October 10</td>
<td>December 12</td>
<td>December 29</td>
</tr>
<tr>
<td>1st 8 week</td>
<td>August 21</td>
<td>August 25</td>
<td>August 29</td>
<td>August 31</td>
<td>September 5</td>
<td>October 10</td>
<td>December 12</td>
<td>December 29</td>
</tr>
<tr>
<td>2nd 8 week</td>
<td>August 21</td>
<td>October 20</td>
<td>August 27</td>
<td>October 24</td>
<td>September 15</td>
<td>October 10</td>
<td>December 12</td>
<td>December 29</td>
</tr>
<tr>
<td>1st 10 week</td>
<td>August 21</td>
<td>August 25</td>
<td>August 29</td>
<td>August 31</td>
<td>September 15</td>
<td>October 10</td>
<td>December 12</td>
<td>December 29</td>
</tr>
<tr>
<td>2nd 10 week</td>
<td>August 21</td>
<td>September 29</td>
<td>September 3</td>
<td>September 7</td>
<td>September 19</td>
<td>October 24</td>
<td>December 12</td>
<td>December 29</td>
</tr>
<tr>
<td>Mountain Home</td>
<td>August 21</td>
<td>August 25</td>
<td>August 28</td>
<td>August 31</td>
<td>September 25</td>
<td>November 14</td>
<td>November 18</td>
<td>November 18</td>
</tr>
</tbody>
</table>

*Last date to add with permission number, last date to drop or completely withdraw without a W and receive a refund (less a $40.00 processing fee), last date to change from credit-to-audit or audit-to-credit.

**The final exams for this session are December 15-18. See Final Examination Schedule listed on Registrar's Office website for exact dates and times.

***This session is eight calendar weeks long with seven weeks of in-class instruction due to the Thanksgiving Week Break.

---

**December**

15, Sun Scholarship Priority Deadline for non-resident students to submit all admission materials to be considered for GEM and WUE waivers.

**January**

1, Wed The 2014-2015 Free Application for Federal Student Aid (FAFSA) can be submitted beginning today.

15, Sat 2014-2015 FAFSA Filing Priority Date for 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 still submit your FAFSA even if the priority filing date has passed.

15, Sat Scholarship Priority Deadline. Last day to have all admission materials received in Admissions for new freshmen and transfer students who wish to be considered for scholarships. For the 2014-2015 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.

**March**

15, Sat 2014-2015 FAFSA Filing Priority Date for continuing students. Eligible students must apply by this date to maximize the amount of aid you receive. The priority filing date is not a deadline, submit your FAFSA even if the priority filing date has passed.

31, Mon Registration for continuing students begins for Fall 2014 (by appointment).

**May**

15, Thu 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.

15, Wed Priority date for international student application materials to be received for fall semester consideration.

**June**

1, Sat Priority date to submit all financial aid documents to maintain 2014-2015 work-study, supplemental grants (SEOG) and Perkins loans. Funding for these programs is limited; these awards may be cancelled if documents are not submitted by this date.

27, Fri Last day for graduate, degree-seeking applicants for fall semester to have all admission materials received by Graduate Admission and Degree Services. Applications received after this date might not be processed in time to admit students to degree programs.

**July**

1, Tue First day students can begin using 2014-2015 work-study awards.

**August**

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

22, Fri Residence halls check-in begins at 8:00 a.m. (in one-and-a-half hour shifts).

22, Fri Convocation
<table>
<thead>
<tr>
<th>August</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>25, Mon</td>
<td></td>
<td>Course instruction begins.</td>
</tr>
<tr>
<td>29, Fri</td>
<td></td>
<td>Weekend courses begin.</td>
</tr>
<tr>
<td>29, Fri</td>
<td></td>
<td>Last day faculty may initiate drops for nonattendance during the first week of the semester to the Registrar's Office.</td>
</tr>
<tr>
<td>29, Fri</td>
<td></td>
<td>Last day to apply for graduation, using myBoiseState, for graduate and undergraduate degrees and certificates to be awarded in December.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>September</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, Mon</td>
<td></td>
<td>Labor Day (No classes. University offices closed.)</td>
</tr>
<tr>
<td>8, Mon</td>
<td></td>
<td>Last day to waive Student Health Insurance Plan (SHIP) using myBoiseState.</td>
</tr>
<tr>
<td>8, Mon</td>
<td></td>
<td>Fall Financial Aid Census Date – eligibility for financial aid determined by number of credits registered on this date.</td>
</tr>
<tr>
<td>8, Mon</td>
<td></td>
<td>Last day to add graduate dissertation, thesis, project, or portfolio credit.</td>
</tr>
<tr>
<td>8, Mon</td>
<td></td>
<td>Last day to submit Idaho Residency Determination Worksheet with documentation to Registrar's Office to declare Idaho residency for Fall 2014 consideration.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>October</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, Fri</td>
<td></td>
<td>Last day to add undergraduate internship and independent study.</td>
</tr>
<tr>
<td>3, Fri</td>
<td></td>
<td>Last day to add graduate assessment, directed research, independent study, internship, practicum, or reading and conference.</td>
</tr>
<tr>
<td>6, Mon</td>
<td></td>
<td>Last day to submit Application for Admission to Candidacy form to Graduate Admission and Degree Services for graduate degrees to be awarded in December.</td>
</tr>
<tr>
<td>13, Mon</td>
<td></td>
<td>Columbus Day Observed (Classes in session and University offices open).</td>
</tr>
<tr>
<td>17, Fri</td>
<td></td>
<td>Recommended last day for final oral dissertation, thesis, or project defense for graduate degrees to be awarded in December.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>November</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7, Fri</td>
<td></td>
<td>Last day to submit review copy of dissertation or thesis with Final Reading Approval form signed by the supervisory committee chair to the Thesis and Dissertation Office for graduate degrees to be awarded in December.</td>
</tr>
<tr>
<td>11, Tue</td>
<td></td>
<td>Veterans Day (Classes in session and University offices open).</td>
</tr>
<tr>
<td>24-30, M-Su</td>
<td></td>
<td>Thanksgiving holiday (No classes. University offices closed November 27-28).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>December</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10, Wed</td>
<td></td>
<td>Last day to submit final copies of dissertation or thesis to the Thesis and Dissertation Office for graduate degrees to be awarded in December.</td>
</tr>
<tr>
<td>12, Fri</td>
<td></td>
<td>Course instruction ends.</td>
</tr>
<tr>
<td>14, Sun</td>
<td></td>
<td>Weekend courses end.</td>
</tr>
<tr>
<td>15-18, M-Th</td>
<td></td>
<td>Final semester examinations for the Regular session. Exam schedule listed on Registrar's Office website.</td>
</tr>
<tr>
<td>19, Fri</td>
<td></td>
<td>Commencement</td>
</tr>
<tr>
<td>19, Fri</td>
<td></td>
<td>Residence halls close (Noon).</td>
</tr>
<tr>
<td>22-26, M-F</td>
<td></td>
<td>University offices closed.</td>
</tr>
<tr>
<td>29, Mon</td>
<td></td>
<td>Grade reports due on myBoiseState.</td>
</tr>
<tr>
<td>29, Mon</td>
<td></td>
<td>Last day to submit Report of Non-Transcripted Culminating Activity form (if needed) to Graduate Admission and Degree Services for graduate degrees to be awarded in December.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>January</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, Thu</td>
<td></td>
<td>New Year's Day (University offices closed).</td>
</tr>
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</table>
SPRING SEMESTER 2015
For registration information see the Boise State Registration Guide.

<table>
<thead>
<tr>
<th>Deadlines by Session – Spring 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Session</strong></td>
</tr>
<tr>
<td>Regular</td>
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<tr>
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<td>2nd 5 week</td>
</tr>
<tr>
<td>3rd 5 week</td>
</tr>
<tr>
<td>1st 8 week</td>
</tr>
<tr>
<td>2nd 8 week</td>
</tr>
<tr>
<td>1st 10 week</td>
</tr>
<tr>
<td>2nd 10 week</td>
</tr>
<tr>
<td>12 week Mountain Home</td>
</tr>
</tbody>
</table>

*Last date to add with permission number, last date to drop or completely withdraw without a W and receive a refund (less a $40.00 processing fee), last date to change from credit-to-audit or audit-to-credit.

**The final semester exams for this session are May 4-8 (Monday - Friday). See Final Examination Schedule listed on Registrar's Office website for exact dates and times.

***This session is eight calendar weeks long with seven weeks of in-class instruction due to the week long Spring Break.
| February       | 16, Mon     | Presidents' Day (No classes. University offices closed.) |
|               | 20, Fri     | Last day to add undergraduate internship and independent study. |
|               | 20, Fri     | Last day to add graduate assessment, directed research, independent study, internship, practicum, or reading and conference. |
|               | 20, Fri     | Last day to submit Application for Admission to Candidacy form to Graduate Admission and Degree Services for graduate degrees to be awarded in August. |
| March         | 6, Fri      | Recommended last day for final oral dissertation, thesis, or project defense for graduate degrees to be awarded in May. |
|               | 16, Mon     | Last day to submit review copy of dissertation or thesis with Final Reading Approval form signed by the supervisory committee chair to the Thesis and Dissertation Office for May graduation. |
|               | 23-29, M-Su | Spring vacation. (No classes. University offices open March 23-27.) |
| May           | 1, Fri      | Course instruction ends. |
|               | 1, Fri      | Last day to submit final copies of dissertation or thesis to the Thesis and Dissertation Office for graduate degrees to be awarded in May. |
|               | 3, Sun      | Weekend University courses end. |
|               | 4-8, M-Fr   | Final semester examinations for the Regular session. Exam schedule listed on the Registrar's Office website. |
|               | 8, Fri      | Residence halls close (Noon). |
|               | 9, Sat      | Commencement |
|               | 12, Tue     | Grade reports due using myBoiseState. |
|               | 12, Tue     | Last day to submit Report of Non-Transcripted Culminating Activity form (if needed) to Graduate Admission and Degree Services for graduate degrees to be awarded in May. |
SUMMER SESSION 2015

For registration information see the Boise State Registration Guide.

### Deadlines by Session – Summer 2015

<table>
<thead>
<tr>
<th>Session</th>
<th>Fee Payment Deadline*</th>
<th>Start Date</th>
<th>Last Date to Add Without Permission Number</th>
<th>Drop Fee Begins</th>
<th>Last Date for Refund &amp; Last Date to Register/Add or Drop Without a W**</th>
<th>Last Date to Drop or Completely Withdraw With a W No Refund</th>
<th>Last Date of Classroom Instruction</th>
<th>Grades Due***</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st 3 week</td>
<td>May 7</td>
<td>May 11</td>
<td>May 11</td>
<td>May 15</td>
<td>May 12</td>
<td>May 18</td>
<td>May 31</td>
<td>June 2</td>
</tr>
<tr>
<td>1st 5 week</td>
<td>May 28 July 2</td>
<td>June 1</td>
<td>June 2</td>
<td>June 5</td>
<td>June 3</td>
<td>June 12</td>
<td>July 5</td>
<td>July 7</td>
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<tr>
<td>2nd 5 week</td>
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<td>June 7</td>
<td>July 10</td>
<td>July 10</td>
<td>July 8</td>
<td>July 17</td>
<td>July 9</td>
<td>July 11</td>
</tr>
<tr>
<td>1st 7 week</td>
<td>May 7</td>
<td>May 11</td>
<td>May 13</td>
<td>May 15</td>
<td>May 14</td>
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<tr>
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<td>June 29</td>
<td>July 3</td>
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<td>July 2</td>
<td>July 16</td>
<td>August 16</td>
<td>August 18</td>
</tr>
<tr>
<td>10 week</td>
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<td>June 1</td>
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*Complete withdrawals on or after this date are subject to a processing fee.
**Last date to add with permission number, last date to drop or completely withdraw without a W and receive a refund (less a $40.00 Processing Fee), last date to change from Credit-to-Audit or Audit-to-Credit.
***Grades will not be considered official until the end-of-term processing has been completed.

**February**
- 17, Tues: Registration begins for Summer 2015.

**March**
- 13, Fri: Recommended last date to submit 2014-2015 Free Application for Federal Student Aid (FAFSA) for consideration for financial aid for Summer 2015.

**May**
- 15, Fri: 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.

**June**
- 25, Mon: Memorial Day Holiday (no classes - University offices closed).
- 10, Wed: Summer Financial Aid Census Date - financial aid eligibility determined by number of credits registered on this date.
- 11, Thurs: Last day to apply for graduation, using myBoiseState, for graduate and undergraduate degrees and certificates to be awarded in August.

**July**
- 3, Fri: Independence Day holiday (Observed). (No classes. University offices closed.)
- 6, Mon: Last day to submit review copy of dissertation or thesis with Final Reading Approval form signed by the supervisory committee chair to the Thesis and Dissertation Office for August graduation.
- 27, Mon: Last day to submit Report of Culminating Activity form (if needed) to Graduate Admission and Degree Services for graduate degrees to be awarded in August.

**August**
- 3, Mon: Last day to submit final copies of dissertation or thesis to the Thesis and Dissertation Office for graduate degrees to be awarded in August.
Graduate Degrees and Certificate Programs

**The Graduate Admission Application** is located at graduatecollege.boisestate.edu/howtoapply/. A one-time application fee of $65.00 is required for a new graduate application. There is no fee for readmission to a subsequent semester. If you are not a citizen of the United States, are currently in the United States with a visa, or you have applied for permanent residency but have not been approved, you are considered an international student. Please refer to the following website for the International Admissions Office graduatecollege.boisestate.edu/howtoapply/.

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Graduate College Staff

Office of the Graduate Dean
Riverfront Hall, Room 307.................................................................(208) 426-3647
   Graduate Dean, John R. (Jack) Pelton...........................................(208) 426-3647
   Associate Graduate Dean, Christopher Hill................................(208) 426-3647
   Director of Graduate Recruiting, Katie M. Stone...........................(208) 426-4723
   Business Manager, Anne Herndon.................................................(208) 426-1039
   Senior Administrator, Dawn M. Ramirez......................................(208) 426-4203
   Administrative Assistant II, Brittany Archuleta............................(208) 426-3647
   Administrative Assistant I, Kristen DeBoer....................................(208) 426-1026
   Coordinator of Theses and Dissertations, Jodi Chilson.................(208) 426-3604

Graduate Admission and Degree Services
Riverfront Hall, Room 307.................................................................(208) 426-3903
   Supervisor, Graduate Admission and Degree Services, Linda Platt...(208) 426-1074
   Technical Records Specialist, Ginger Moyers..............................(208) 426-4204
   Technical Records Specialist, Greg Gaskill................................(208) 426-1337
   Office Specialist, Suzetta Lloyd.....................................................(208) 426-3903

Additional Services
Financial Aid, Administration Building, Room 113..............................(208) 426-1664
GMAT Testing, For information contact............................................(208) 375-3079
   or register online at www.mba.com
GRE Testing, For information contact..............................................(208) 373-1815
   (1-800) 473-2255 or register online at www.prometric.com
GRE, GMAT Test Prep Classes, Extended Studies, 220 E. Parkcenter Boulevard...(208) 426-3492
International Student Admissions, Student Union Building...............(208) 426-1757
Payment and Disbursement Center, Administration Building, Room 101...(208) 426-1212
   (208) 426-4148
PRAXIS Testing, Thomson Pro-Metric testing locations....................(1-800) 853-6773
Registrar, Administration Building, Room 110..................................(208) 426-4249
An Introduction to Boise State University

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 new 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 Historical 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 also is 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 Ph.D. 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 colleges—Arts and Sciences, Business and Economics, Education, Engineering, Health Sciences, Social Sciences and Public Affairs, and Graduate Studies—with a full-time faculty of more than 600.

Mission and Core Themes

Boise State University is a public, metropolitan research university offering an array of undergraduate and graduate degrees and experiences that foster student success, lifelong learning, community engagement, innovation and creativity. Research and creative activity advance new knowledge and benefit students, the community, the state and the nation. As an integral part of its metropolitan environment, the university is engaged in professional and continuing education programming, policy issues, and promoting the region’s economic vitality and cultural enrichment.

Our mission is further elaborated by our Core Themes: Undergraduate Education, Graduate Education, Research and Creative Activity, and Community Commitment. Each Core Theme is further expanded upon by four Core Objectives focused on (i) Access and Completion, (ii) Relevance, (iii) Quality, and (iv) Culture (See http://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 that educates and enriches the lives of our citizens. Our campus culture and climate promote civility, inclusivity and collegiality.
An Introduction to Boise State University

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 2012-2017. The goals and strategies are:

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

Strategies:

- Develop the Foundational Studies Program into a memorable centerpiece of the undergraduate experience.
- Provide bountiful opportunities within and across disciplines for experiential learning.
- Facilitate respect for the diversity of human cultures, institutions, and experiences in curricular and co-curricular education.
- Cultivate intellectual community among students and faculty.
- Invest in faculty development, innovative pedagogies, and an engaging environment for learning.

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

Strategies:

- Identify and remove barriers to graduation.
- Bring classes to students using advanced technologies and multiple delivery formats.
- Design and implement innovative policies and processes that facilitate student success.
- Connect students with university services that address their individual needs.
- Ensure that faculty and staff understand their roles and responsibilities in facilitating student success.

Goal 3 Gain distinction as a doctoral research university.

Strategies:

- Recruit, retain, and support highly qualified faculty, staff, and students from diverse backgrounds.
- Identify and invest in select areas of excellence with the greatest potential for economic, societal, and cultural benefit.
- Build select doctoral programs with a priority in professional and STEM disciplines.
- Build infrastructure to keep pace with growing research and creative activity.
- Design systems to support and reward interdisciplinary collaboration.

Goal 4 Align university programs and activities with community needs.

Strategies:

- Include community impact in the creation and assessment of university programs and activities.
- Leverage knowledge and expertise within the community to develop mutually beneficial partnerships.
- Collaborate with external partners to increase Idaho students’ readiness for and enrollment in higher education.
- Increase student recruitment, retention, and graduation in STEM disciplines.
- 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.

Strategies:

- Reinvent our academic and business practices to improve service and efficiency.
- Simplify or eliminate policies and regulations that waste effort and resources.
- Invest in faculty and staff to develop key competencies and motivate top performance.
- Break down silos that inhibit communication, collaboration and creativity.
- Provide widespread and timely access to reliable and understandable data, and use it to drive decision-making across the university.
- Build an infrastructure to encourage and accommodate external funding, philanthropic support, private-sector relationships, and a diversity of funding models.
- Develop and implement a model for resource allocation that supports strategic goals and promotes 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, 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 Bar Association
- 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 of Athletic Training Education
- Committee on 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 Public Affairs and Administration
- National Association of Schools of Theatre
- 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
- National League for Nursing Accrediting Commission

Distance Education and State Authorization Beyond Idaho

Boise State University delivers online education programs and courses throughout the United States and internationally and its online offerings continue to expand. All programs have been approved by Idaho's State Board of Education.

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 postsecondary education, preserve the integrity of an academic degree and instill greater consumer protection for its student citizens.

Authorization (sometimes referred to as “registration,” “licensure,” “approval,” etc.) indicates that certain minimum standards have been met by the institution 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 University has taken steps to protect its students and operations through nationwide compliance and has been granted authorizations, exemptions and waivers from many states. In other states, Boise State University can operate without such authorization because the state's laws do not pertain to a public institution, an accredited institution or the University's activities in that state. More specific information about state authorization can be found at http://ecampus.boisestate.edu.

Students

Each semester, Boise State University enrolls approximately 20,000 students in its academic programs. Students come to Boise State University from every county in Idaho, from nearly every state in the nation, and from numerous foreign countries. The university's urban setting both attracts and complements this diverse student body, which includes many nontraditional students as well as traditional students enrolling directly from high school.

Because Boise is the commercial, financial, health care, and governmental center of Idaho, there are experiences and opportunities reaching beyond the classroom afforded to you that are unavailable elsewhere in the state. For instance, you can enhance classroom learning and gain valuable work experience by serving as an intern with the State Legislature, government agencies, or one of
An Introduction to Boise State University

the many private businesses and industries in the area. In addition, you can attend a wide variety of civic, cultural, and social events hosted by Boise State University.

Graduate College

The Graduate College is the only academic unit at Boise State University whose sole concern and primary advocacy is graduate education. The Graduate College provides institutional oversight for more than 70 graduate curricula established across six academic colleges, with approximately 2,000 registered graduate students each semester. These programs span the breadth of graduate education, from 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 six academic colleges, 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 strategic development of graduate programming, problem resolution for individual faculty members and graduate students, and attendance at regional and national forums on graduate education. The Graduate College also helps the university maintain a culture of collegiality and ethical behavior through its dedication to fairness and integrity.

Faculty

You will find that the university attracts faculty who are dedicated to excellence in teaching, creative in generating new knowledge, and generous in using their expertise to solve society's problems. Moreover, the faculty members at Boise State University recognize that high-quality teaching is their primary goal, giving you the opportunity to work with some of the West's most respected scientists, artists, researchers, and educators. In addition to helping students learn, faculty members assist business, industry, educational institutions, government agencies, and professional groups with educational programs and research and development efforts. The faculty also assists organizations in upgrading the knowledge and skills of 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, wellness and SHIP—are integrated under one roof in the Norco Nursing and Health Sciences Building. The Office of Advising and Academic Enhancement, the Career Center and the Testing Center are located together in the Academic and Career Services Building.

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, Engineering Building, Fine Arts Building, Liberal Arts Building, Mathematics Building, Micron Engineering Center, Morrison Civil Engineering Building, Multipurpose Classroom Building. The Interactive Learning Center supports the latest in technology with 12 general use classrooms, multi-media 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 Amphitheater—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 Arts, 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’s 17,000-square-foot Aquatics Center is a hub for water activities.

Boise State University students also enjoy the Student Union, which provides facilities for social, recreational and cultural activities. In addition to a quick-copy center and dining areas, the Student Union contains a bowling alley and games center, several lounges, the Boise State University Bookstore and the Bronco Shop. While at the Student Union, you can stop by the Information Desk to pick up tickets for campus programs and community events, or visit the offices of more than 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 multi-purpose 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 Bronco Stadium, with a seating capacity of 37,000 and the university's iconic blue playing field.

The Albertsons Library

The Albertsons Library provides access to an extensive array of online journals, research databases, reference works, newspapers, books and eBooks, and other resources for research and learning. Study spaces for individuals and groups are available throughout the library. Reference librarians provide help to students in the Library and online with their research. The library has 120 desktop computers available for student use and 61 laptops available for student checkout. There also are 30 iPads available for checkout.

The library's holdings exceed 2 million items, including access to:

- 750,000 total volumes
- 96,000+ electronic journals
- 300+ online databases
- 100,000+ electronic books

The library website, http://library.boisestate.edu, links to information resources including the library catalog, databases, online journals, and reference sources. Distance education students can find information on using the library and obtaining materials to support their coursework. Students have access to all library online resources both on- and off-campus.

The Reference area is the information hub of the library where librarians are available to provide on-demand assistance and guidance in conducting research using library resources. Librarians with subject expertise offer individual research appointments to students to help guide the discovery of materials to support...
their class assignments and research. Research resources include an extensive collection of discipline-specific research databases and journals, and numerous specialty databases, handbooks, encyclopedias, dictionaries, U.S. government documents and maps. The Special Collections area contains manuscript collections, rare books, Basque studies material, and the University archives in addition to housing the papers of Senator Len B. Jordan, Senator Frank Church, and Interior Secretary/Governor Cecil D. Andrus. Selected resources from the department’s photo collections are being digitized and appear online at http://digital.boisestate.edu. This area also maintains the Cecil D. Andrus and Frank Church Rooms. The Warren McCain Reading Room, located on the second floor, contains a growing collection of books and materials about the literature, anthropology, and history of the American West and the Westward Movement.

Computer Resources

Computer labs, kiosks, and print stations are located throughout most campus locations where students attend classes and congregate, and provide access to a wide variety of software on Windows and Mac computers.

In addition, computer laptops and tablets are available for students to check out from the Zone locations in the Interactive Learning Center, the Micron Business and Economics Building and Student Union Building.

General-use computer labs are located in the Multipurpose, Business, Environmental Research, Interactive Learning Center, and Student Union Buildings. See http://oit.boisestate.edu/labs for more information.

Boise State University provides Google Apps accounts for all students, including “BroncoMail” Gmail accounts.

As a Boise State University student, you will have the opportunity to learn to use computers in ways appropriate to your discipline. For more information about the computer skills required in your discipline.

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, women’s gymnastics, soccer, softball, swimming and diving, and volleyball. The university competes in the PAC-12 in wrestling and independently in women’s gymnastics. Students that wish to participate in intercollegiate athletics should contact the head coach of the sport for which they wish to participate. A listing of head coaches is provided by calling the Athletic Department at (208) 426-1288, or on the web at 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.
General Policies

Your Rights and Responsibilities

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

Confidentiality and Privacy

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student’s education records within 45 days from the day the university receives a request for access.

A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The university official will make arrangements for access and notify the student 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, that official shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student’s education records that the student believes are inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA.

A student who wishes to ask the university to amend a record should write the university official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed.

If the university decides not to amend the record as requested, the University will notify the student of its decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. The right to provide written consent before the university discloses personally identifiable information from the student’s education records, except to the extent that FERPA authorizes disclosure without consent.

The university discloses education records without a student’s prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. 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 his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record to fulfill his or her professional responsibilities for the university.

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 20202-5901.

The information listed below is considered directory information:

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

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 (PIN) 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 PIN 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 PIN 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 PIN, 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 PIN from your education records, and they may track your participation in education and other programs by linking such PIN 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, log on to myBoiseState and click on the FERPA Directory Restrictions link.

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

You must complete a privacy release form to allow individuals other than yourself to access your student records related to grades, financial aid, and account. Log on to myBoiseState, select Campus Personal Information, FERPA Restrictions, scroll down and select Edit FERPA/Directory Restrictions, and select Restrict or Release.

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. Students are expected to adhere to the rules and regulations as set forth in the Student Code of Conduct. Therefore, all work submitted by a student must represent that student's own ideas and effort; when the work does not, the student has engaged in academic dishonesty.

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

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

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

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

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

- Boise State University Policy Manual
- Boise State University Student Handbook
- Student Code of Conduct (osrr.boisestate.edu)

Notice of Nondiscrimination on the Basis of Disability

In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA), Boise State University prohibits discrimination on the basis of disability in its admission or access to, or treatment or employment in, its services, programs, and activities. For more information, including grievance procedures for complaints made pursuant to this notice, please see Boise State University Policy 1060, Non-Discrimination and Anti-Harassment, which can be found at http://policy.boisestate.edu/governance-legal/nondiscrimination-antiharassment/.

Students who require disability-related services or accommodations are encouraged to contact the Disability Resource Center, located in the Lincoln Garage on the university’s main campus, or by phone at (208) 426-1583. More information on services provided by the Disability Resource Center is available at http://drc.boisestate.edu.

Employees who require disability-related services or accommodations are encouraged to contact the university’s Equal Employment Opportunity/Affirmative Action Office located in the Campus School on the university’s main campus, or by phone at (208) 426-1616. More information on services provided by the EEO/AA Office is available at http://hrs.boisestate.edu/employees/eooaa/.

Boise State's 504 Coordinator 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 about related to the university's obligations described in this notice and those who wish to file a complaint may contact Boise State's 504 Coordinator:

Annie Kerrick, Office of the Dean of Students, Norco Building (1529 Belmont Street), Suite 116, 1910 University Drive, MS 1370, Boise, ID 83725. Phone: (208) 426-1527, E-mail: akerrick@boisestate.edu.

In addition to the 504 Coordinator, 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, Facsimile: (206) 607-1601, e-mail: OCR.Seattle@ed.gov.

Upon request this notice is available in alternative formats from the 504 Coordinator.

Notice of Nondiscrimination on the Basis of Sex

In accordance with Title IX of the Education Amendments of 1972, Boise State University prohibits discrimination on the basis of sex in its educational programs and activities, including: athletics; recruitment, admissions, financial aid, and scholarships; course offerings and access; hiring and retention; benefits; and other activities sponsored by Boise State. Title IX protects people of every sex and gender identity, from sexual harassment, sexual violence, dating abuse, and domestic violence. Certain cases of stalking may also be a form of discrimination on the basis of sex covered by Title IX.
General Policies

Boise State's Title IX Coordinator monitors compliance with Title IX and coordinates the university's response to complaints of discrimination based on sex. Upon receipt of a complaint, the Title IX Coordinator may provide interim measures that are necessary to prevent further discrimination and remedy its effects.

For more information on Title IX, please visit http://deanofstudents.boisestate.edu/title-ix/. For the university policy related to this notice, including grievance procedures for complaints, please see Boise State University Policy 1060, Nondiscrimination and Anti-Harassment, which can be found at http://policy.boisestate.edu/governance-legal/nondiscrimination-antiharassment/.

Individuals with questions or concerns about Title IX and those who wish to file a complaint may contact Boise State's Title IX Coordinator: Annie Kerrick, Office of the Dean of Students, Norco Building (1529 Belmont Street), Suite 116, 1910 University Drive, MS 1370, Boise, ID 83725. Phone: (208) 426-1527, e-mail: akerrick@boisestate.edu.

In addition to the Title IX Coordinator, inquiries may be directed to the federal department responsible for enforcing Title IX: Office for Civil Rights, Seattle Office, U.S. Department of Education, 915 Second Avenue, Room 3310, Seattle, WA 98174-1099, phone: (206) 607-1600, facsimile: (206) 607-1601, e-mail: OCR.Seattle@ed.gov.

Student Records

Graduate Admission and Degree Services maintains a permanent file for each student who has applied for admission to the Graduate College; your file will contain your application for admission, official transcripts, test scores, and any correspondence related to that application. Another file at the Registrar's Office contains your permanent transcript record and all materials that document that transcript record. And, your faculty advisor will maintain a file of advising records, grade sheets, and correspondence.

In general, you have the right to review the documents that constitute your official record, and you have the right to request copies of those documents. If you request copies, Boise State University will provide them in a timely and efficient manner.

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

Transcript Records

You may order official transcripts online through myBoiseState at http://my.boisestate.edu/. 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 responding to inquiries from outside the university, Boise State University calculates your enrollment status according to 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>6-8</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 financial aid, please read the Financial Aid for Graduate Students section for additional enrollment requirements to maintain your financial aid eligibility.

Note: If you are receiving benefits under the G.I. Bill, you should contact the Veteran Services Office, Alumni Center, located in the Lincoln Garage, on the corner of Lincoln Ave. and University Dr. 1173, (208) 426-3744, to determine your enrollment status.

Address Changes

Whenever Boise State University policies or procedures call for a university office to send written notification to a student, that obligation is fulfilled when that office mails the notification to the student's last address on record. Past students may update their address in person, by e-mail to regmail@boisestate.edu, or by sending in a change-of-address card from the post office to the Registrar's Office, Administration Building, Room 110. Currently enrolled students must update address information by logging on to myBoiseState (http://my.boisestate.edu/).

Name Changes

You should promptly report a name change. You may do so by completing Student Information Update Form and returning the form to the Registrar's Office, Administration Building, Room 110. You must provide evidence showing that your name has officially changed, such as a certified copy of a court order, a marriage certificate, or a dissolution decree reflecting the new name in full.

Note: If you are, or were at anytime, employed by the university (even as a student employee) you must report your name change to the Department of Human Resource Services, Public Affairs and Arts West Building, Room 125 (documentation requirements may differ).

Attendance Policy

You are responsible for attending courses for which you are enrolled. You are also responsible for making up any work you may have missed by failing to attend class, even if the absence was approved by the university, necessitated by illness, or necessitated by a personal emergency. In this sense, there are no “excused” absences. Please note, as well, that the instructor has the option to automatically withdraw you from a course if you fail to attend one of the first two meetings of a class that meets more than once each week, or if you fail to attend the first meeting of a class that meets once each week, see Registration Policies and Procedures, in “Faculty-Initiated Withdrawals.”
Students should not expect that an instructor will exercise their option to withdraw them for nonattendance. The primary responsibility for course withdrawal rests with the student.

Last Week of Classes
No test or examination will be given during the last seven calendar days preceding the first day of the officially scheduled final examination period of the fall or spring semester (see the Academic Calendar for final exam period dates) with the following exceptions:

• In lab or performance classes where it is necessary.
• No take home test or exam is to be due prior to the beginning of the officially scheduled examination period, although a take home final test or examination may be distributed during this time period.
• Homework, papers, problem sets, and projects may be due during this time frame.

Final Examinations Schedules
Each semester, a schedule for final examinations is published online at http://registrar.boisestate.edu/boise-state-academic-calendars/
This schedule defines the dates and times during which all final examinations must be scheduled. All in-class final exams must be given during the officially scheduled final examination periods. An exception to the schedule is allowed only on an individual basis with the exception to be arranged between the instructor and the student.

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 Dean of the Graduate College and/or by the University Academic Appeals Committee as appropriate. Appeals for current semester complete withdrawals should be directed to the Dean of Students Office. For more information about appeals and grievances, see the Boise State University Policy Manual (http://policy.boisestate.edu/) and the Boise State University Student Handbook (http://deanofstudents.boisestate.edu/wp-content/uploads/2013/08/Student-Handbook-8-20-13.pdf).

Questions About These Policies?
If you have questions about these policies, contact the Registrar’s Office, Administration Building, Room 110, (208) 426-4249.
Graduate Admission Regulations

Admission Requirements

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

Minimum Admission Requirements of the Graduate College

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

1. a GPA of 3.0 or higher computed for all undergraduate credits;
2. a GPA of 3.0 or higher computed for the last half of the undergraduate credits.

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

Admission Requirements for a Graduate Degree or Certificate Program

Achievement of the minimum admission requirements of the Graduate College does not guarantee admission to a graduate program. Furthermore, a student who is admitted to a graduate program is not guaranteed admission to any other graduate program at any time in the future. Admission to a graduate program is competitive and qualified applicants may be denied admission depending on a wide variety of programmatic variables.

To ensure the best possible opportunity for admission, each applicant is strongly encouraged to review the specific admission requirements and application procedures given in this catalog for the program of interest. Program requirements can also be found by visiting the Graduate College website (Degree Programs). Applicants are cautioned that review of an application cannot begin until all application materials are received, including those that are specific to a particular program. Applicants can monitor the arrival of admission materials using the Admissions To Do’s list on MyBoiseState.

Admission Status for Degree-Seeking Students

An applicant who applies as a graduate degree-seeking student and holds the required baccalaureate degree will be admitted initially to the Graduate College, but not to the graduate program. Once Graduate Admission and Degree Services receives all official transcripts, a Program Admission Recommendation form will be available for the academic unit that has administrative responsibility for the program. The applicant is said to be in PDR admission status (PDR indicates pending department review). An applicant in PDR status may enroll in courses for which he or she is eligible, but is not permitted to work toward a graduate degree or certificate and is not eligible for federal financial aid. If the applicant completes courses while in PDR status and is later admitted to a graduate program, the responsible academic unit may recommend to the Graduate College that some of the courses completed during PDR status be applied to the credit requirements of the program. The academic unit may define a maximum number of applicable credits of this type for the program, but the maximum cannot exceed one third of the total credit requirement, and all final decisions on the applicability of such credit rests with the Dean of the Graduate College or designee.

The academic unit responsible for the graduate program takes the application into consideration using its normal process to determine the admission recommendation. This process is usually overseen by a faculty member who is appointed as the graduate program coordinator. Once the process is complete, the graduate program coordinator completes the Program Admission Recommendation form and forwards it to the Dean of the Graduate College. The graduate dean or designee makes the final admission decision and notifies the student and the academic unit. If the student is admitted to a graduate program, his or her admission status changes from PDR to either regular status or provisional status and the student becomes eligible for financial aid. Regular status indicates admission of the student to full graduate standing in a program with no special conditions. Provisional status establishes special conditions such as a probationary period and/or other specific stipulations that must be satisfied by the student within a reasonable time. If the academic unit and the Graduate College jointly determine that the student has been successful in removing the conditions of provisional status, then the student is promoted to regular status by the Dean of the Graduate College. If promotion to regular status is denied, then the student is dismissed from the graduate program by the Dean of the Graduate College.

Admission Status for Nondegree-Seeking Students

A student admitted to the Graduate College as a graduate nondegree-seeking student may take courses of interest for which he or she is eligible but may not work toward a graduate degree or certificate and is not eligible for federal financial aid. If the student completes courses while in graduate nondegree-seeking status and later applies and is admitted to a graduate program, the responsible academic unit may recommend to the Graduate College that some of the courses completed while in graduate nondegree-seeking status be applied to the credit requirements of the program. The academic unit may define a maximum number of applicable credits of this type for the program, but the maximum cannot exceed one third of the total credit requirement, and all final decisions on the applicability of such credit rests with the dean of the Graduate College or designee.

Application Deadlines for Degree-Seeking Students

The academic unit responsible for a graduate program may set one or more standard application deadlines appropriate for management of the program. Prospective students who wish to apply as graduate degree-seeking students are therefore strongly encouraged to consult the description of the program of interest at the Graduate College website (Degree Programs) if the program is not specific about its application deadlines, then the Graduate College strongly...
encourages prospective students to submit all application materials seven to nine months in advance of the anticipated starting semester or term.

Application Deadlines for Nondegree-Seeking Students

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

Applying as a Degree-Seeking Student

To apply for admission as a degree-seeking student, complete the following steps before the program deadline:

1. Submit an application for admission to Graduate Admission and Degree Services, along with the nonrefundable application fee. An online application is available at http://graduatecollege.boisestate.edu/howtoapply/.
2. Request official transcripts from each educational institution (excluding Boise State) you have attended beyond high school. Instruct the institutions to send the transcripts directly to Graduate Admission and Degree Services, Room 307, Riverfront Hall, Boise State University, 1910 University Drive, Boise, ID 83725-1110.
3. Standardized exams are required by some programs. Check the Graduate College website (Degree Programs) to see if your program requires exams. Ensure that the exam results are forwarded to Graduate Admission and Degree Services. The institutional code for Boise State University for all examinations administered by the Educational Testing Service (ETS) is 4018.
4. Submit all required letters of recommendation and other materials to the program to which you are applying.

After completing the steps listed above, you are eligible for admission to the Graduate College. Completing the steps, however, does not ensure that you will be admitted to the graduate program of interest. You must be recommended for admission by the academic unit that is responsible for the graduate program, and the Dean of the Graduate College must concur with that recommendation. You are officially admitted to the graduate program only after receiving written notification that you have been admitted from the graduate dean.

Applying as a Nondegree-Seeking Student

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

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

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

1. Submit an application for admission to Graduate Admission and Degree Services, along with the nonrefundable application fee. The current application fee is available online at http://graduatecollege.boisestate.edu/howtoapply/.
2. Request an official transcript from the institution (excluding BSU) that granted your bachelor's degree or higher degree. Instruct the institution to send the transcript directly to: Graduate Admission and Degree Services Riverfront Hall, Room 307 Boise State University 1910 University Drive Boise, ID 83725-1110

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

Applying for Admission as an International Graduate Student

Boise State University welcomes applications from qualified students from around the world. The requirements described below apply to applicants in the United States with a visa or applicants who require a student visa to study in the United States.

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

To apply for admission to Boise State, complete the following steps before May 15 for Fall semester and before October 15 for Spring semester:

1. Submit a completed International Student Graduate Application to the Boise State University International Admissions Office, Student Union Building, along with the nonrefundable application fee. The current application fee is available online at http://graduatecollege.boisestate.edu/howtoapply/.
2. Request official transcripts and proof of degree from each educational institution you have attended beyond high school or the equivalent of high school. Instruct the educational institutions to send the transcripts directly to: International Admissions Office Boise State University 1910 University Drive Boise, ID 83725-1320

If written in a language other than English, these documents must be accompanied by an official English translation. If the institutions cannot submit these documents directly to the Boise State University International Student Admissions Office, you may substitute 1) certified or attested copies of official academic records and 2) proof of four-year degree. The certified copies must be issued or attested by an official of the institution and sent to Boise State University.

3. If your first language is not English, take the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System test (IELTS). Ensure that the results of these exams are forwarded by the testing agency to Boise State University International Admissions Office. (The institution code number for Boise State University is 4018.) All graduate programs (except those noted below) require a minimum TOEFL score of 550 (paper-based test) or 80 (Internet-based test), or an IELTS score of 6.0. You may be exempt from this requirement if you are a native English speaker or if English is your first language. Please contact the International Student Admissions Office for further information.
Graduate programs in the following academic units require a minimum TOEFL score of 587 (paper-based test) or 95 (Internet-based test), or an IELTS score of 6.5: College of Business and Economics, College of Engineering, and Department of Special Education and Early Childhood Studies. TOEFL or IELTS scores must not be older than two years at the time of application.

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 Admission and Degree Services
   Riverfront Hall, Room 307
   Boise State University
   Boise, ID 83725-1110

   The institution code number for Boise State University for all examinations administered by the Educational Testing Service (ETS) is 4018. For information about specific program requirements, see the program descriptions in this catalog.

5. Submit all letters of recommendation and other materials required by the program to which you are applying.

6. Submit documentation sufficient to demonstrate that you have financial resources to cover one calendar year of living expenses, tuition, and fees. Send the documentation to the International Admissions Office.

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

Note: All international students taking on-campus classes must purchase the mandatory health insurance.

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

Questions About These Policies?
If you have questions about these policies, contact:
Graduate Admission and Degree Services
Riverfront Hall, Room 307
(208) 426-3903 or 426-4204
Fax (208) 426-2789
http://graduatecollege.boisestate.edu/
E-mail: gradcoll@boisestate.edu

International Admissions Office
Student Union Building
(208) 426-1757
http://admissions.boisestate.edu/international
E-mail: interntl@boisestate.edu
How to Apply for Admission to the Graduate College at Boise State University

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

New Degree-Seeking Graduate Applicants

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

Returning Applicants Previously Admitted to a Graduate Degree Program

Boise State graduate students will remain active for 6 consecutive semesters (including summer) before a new Graduate Admission Application is required.

Boise State graduate students who were admitted but did not attend prior to Fall 2005, must reapply for admission. Submit the following:

- Graduate Admission Application
- Official* transcripts from all other colleges attended, if not previously submitted.
- Official* GRE, GMAT, MAT 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
- One-time, nonrefundable application fee. (Current fee online at http://graduatecollege.boisestate.edu/howtoapply/.)
- Official* transcript from institution (excluding Boise State) which granted your highest degree.

Applicants Seeking a Second Undergraduate Degree

- Apply for admission through undergraduate admissions office.
- Admission status is Senior.

Applicants from Other Countries

- International Student Graduate Application
- One-time, nonrefundable application fee. (Current fee online at http://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, GMAT scores, if required.
- Letters of recommendation and other materials required by the program to which you are applying.
- Documentation to demonstrate adequate financial resources to cover one year living expenses, tuition, and fees.

* To be official, transcripts must be sent by the issuing institution directly to Boise State University, Graduate Admission and Degree Services.

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

Graduate Faculty
The Graduate Faculty consists of members of the Boise State University faculty who occupy tenure-track, tenured, research, clinical, or endowed faculty positions and who are approved by the Graduate Council to participate in graduate programs. Other qualified individuals may be approved by the Graduate Council to serve as adjunct, affiliate, or emeritus members of the Graduate Faculty for specific duties and fixed terms set by the Graduate Council.

Graduate Program Coordinator
The graduate program coordinator is the principle administrator for a graduate program and is appointed to this position by the academic unit that is responsible for the program. The graduate program coordinator must be a tenure-track or tenured faculty member of the academic unit and a member of the Graduate Faculty. The duties of the graduate program coordinator are jointly defined by the academic unit and the Graduate College. The actual position title assigned by the university to graduate program coordinators can vary from program to program.

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

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

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

Supervisory Committee
A supervisory committee is composed of members of the Graduate Faculty who are appointed to the supervisory committee by the Graduate College and charged with the guidance of a student admitted to a specific graduate degree program. The committee consists of a majority advisor who serves as chair plus at least two but no more than four additional members. The major advisor is the primary mentor for the student and must be a member of the Graduate Faculty with an endorsement to chair a supervisory committee. A majority of the committee membership must hold appointments in the academic unit responsible for the program.

Appointment of a supervisory committee is initiated by the academic unit by submitting an Appointment of Supervisory Committee form. This form must include a recommended committee membership based on a reasonable match between student and faculty academic interests. The graduate dean can either appoint the recommended committee or solicit an alternative recommendation from the unit. Once the graduate dean is satisfied with the recommended committee, he or she formally appoints the committee and provides appropriate notifications. A change in the membership of the supervisory committee can be made after initial appointment but only according to policies and procedures developed by the academic unit and only with the approval of the Graduate College. The Appointment of Supervisory Committee form should be submitted by the academic unit to Graduate Admission and Degree Services as early as possible in the career of the graduate student, and certainly no later than the time of submission of the Application for Admission to Candidacy form.

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

Procedural Advisor
With prior approval of the Graduate College, a member of the academic unit responsible for a 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, which required classes need to be taken, and other general programmatic
Academic Performance

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

Semester GPA Requirement A student who is admitted to a graduate program is required to achieve a semester grade point average (semester GPA) of 3.0 or better each and every semester or summer session in which he or she is enrolled through program completion. If a student fails to meet the semester GPA requirement and the failure is the first occurrence since admission to the program, the student will be placed on academic notice by the Graduate College but will be allowed to continue in the program. If a student fails to meet the semester GPA requirement and the failure is the second occurrence since admission to the program, the student will be dismissed from the program by the Graduate College. The semester GPA requirement is null for those semesters or summer sessions where none of the credits taken by the student are applicable to the GPA calculation.

Program GPA Requirement A student who is admitted to a graduate program is required to list on the Application for Admission to Candidacy form (for a degree program) or the 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 specific courses. If a student fails to achieve a program GPA of 3.0 or better, the student is ineligible for a degree or certificate and should consult the graduate program coordinator for advice and possible options.

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

Repetition of Courses

Repetition to Improve a Grade A graduate student who has completed a graduate course for credit may attempt to repeat that course to improve the grade, but only once and only with the written approval of the graduate program coordinator. Certain 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, and 693 Dissertation. If an attempt to repeat a course to improve a grade results in a grade of W or CW, an additional attempt is not permitted unless extenuating circumstances can be documented that are clearly beyond the control of the student. For regulations governing repetition of undergraduate courses please refer to the undergraduate catalog.

A course that has been completed more than once in an attempt to improve a grade can be listed only once on the Application for Admission to Candidacy form (for a degree program) or the 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 for credit. All course registrations on record beyond published drop dates for each semester or session appear on the student transcript and GPA computations are carried out according to Boise State University Policy Manual, BSU Policy 2200. In order to conform with previous policies of the Graduate College on course repetition to improve a grade, a graduate student may not repeat a Boise State course to improve a grade of F if the course was initially completed prior to the start of the Fall 2003 semester.

Repetition for Credit The university-wide graduate course numbers and some departmental courses (such as MUS 563 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 by a graduate student on his or her Application for Admission to Candidacy form (for a degree program) or Proposed Plan of Study for a Graduate Certificate (for a certificate program) form subject to all approvals and limitations of the graduate program and the Graduate College.

Transfer Credit

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

1. Transfer credit must be academic credit representing a grade of A or B awarded by a regionally accredited U.S. college or university or by a non-U.S. institution of higher education that is approved for transfer purposes by the Registrar; continuing education units (CEU) and other non-academic credits are ineligible for transfer credit.

2. Culminating activity courses, courses where the grade is based only on attendance, and courses representing experiential learning, regardless of the level (undergraduate or graduate), are ineligible for transfer credit.

3. Credit applied to meet the requirements of a previously earned degree of any type at another institution is ineligible for use as transfer credit. The only exception is that credit applied to a previously earned master’s degree at another institution may be applicable as transfer credit to a doctoral degree.

4. Application of transfer credit must be approved by the academic unit responsible for the graduate program.

The maximum transfer credit that can be applied to meet the requirements of a graduate certificate or degree is limited by the fundamental requirement that at least two thirds of the total credit requirement for the degree or certificate must be earned at Boise State University since admission to the program. An academic unit
Graduate Academic Regulations

responsible for a particular graduate program may impose a more restrictive transfer policy (fewer allowed transfer credits) for that program. In the case of a cooperative graduate program offered by Boise State University and the University of Idaho and/or Idaho State University, a more liberal transfer policy (more allowed transfer credits) is permissible, but only if the Graduate Council has approved a higher transfer credit limit for the program.

G-Courses and Dual-Listed Courses

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

Application of Credit Already Applied to a Graduate Certificate

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

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 certificate or degree program (see section V.R.3.a.x.(d) of the Governing Policies and Procedures of the Idaho State Board of Education).

Challenge Courses

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

Graduate Credit Option for Undergraduate Students

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

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

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

Other Limitations Undergraduate students may not enroll in 600-level courses. Courses offered as part of the Master of Business Administration program are excluded from enrollment by all undergraduate students. Students admitted by the Graduate College to work on an accelerated master’s degree are subject to course limitations imposed by the Graduate College and by the participating academic unit or units.

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 the detailed plan of study for a graduate student. This official review allows the Graduate College to identify degree requirements and graduate regulations that may have been overlooked or misinterpreted by the student or anyone providing advice to the student. If left undetected and uncorrected too long, these shortcomings can seriously delay progress toward a graduate degree. The candidacy process also helps the Graduate College update the student’s academic advisement report and enables the university to fulfill its obligations to accrediting organizations. Because of the importance of the candidacy process, a student who has not been admitted to candidacy cannot participate in a final oral examination or apply for graduation.

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

Candidacy Requirements for a Doctoral Student A doctoral student may be admitted to candidacy if the student is in regular status, has passed the comprehensive examination, has satisfied any language proficiency requirement and the doctoral residency
A student who is enrolled in a graduate degree program applies for admission to candidacy by submitting to the Graduate College an Application for Admission to Candidacy form. This form lists the courses proposed by the student to fulfill the total credit requirement for a degree as defined in a particular annual edition of the Boise State University Graduate Catalog (see Choice of Graduate Catalog below). The student is responsible for completing and signing the Application for Admission to Candidacy form and obtaining the necessary signatures at the program level (chair of the supervisory committee or advisor, graduate program coordinator or director). The form is then submitted by the student to the Graduate College for final review and approval. If any deficiencies are found in the list of courses, the Graduate College will notify the student and help find remedies that are acceptable to the Graduate College. Once the Application for Admission to Candidacy form is approved by the Graduate College, the student is notified that admission to candidacy has been granted by the university. A change in an approved Application for Admission to Candidacy form is requested by submitting a Request for Adjustment of Academic Requirements form to the Graduate College (see Adjustment of Academic Requirements below).

Timing Although the academic calendar specifies a submission deadline for the Application for Admission to Candidacy form, the Graduate College strongly recommends that the student submit the form as soon as half of the total credit requirement for the degree is completed. If a student waits until the deadline specified in the academic calendar and the Graduate College finds deficiencies, the student may not be able to complete the necessary corrective actions before the anticipated graduation date. It is therefore in the best interests of the student to carefully prepare the Application for Admission to Candidacy form and submit it to the Graduate College in a timely manner.

Proposed Plan of Study for a Graduate Certificate

A student who is enrolled in a graduate certificate program is required to submit a Proposed Plan of Study for a Graduate Certificate form to the Graduate College. This form lists the courses proposed by the student to fulfill the total credit requirement for a certificate as defined in a particular annual edition of the graduate catalog (see Choice of Graduate Catalog below). The student is responsible for completing and signing the Proposed Plan of Study for a Graduate Certificate form and obtaining the necessary signature at the program level (graduate program coordinator or director). The form is then submitted by the student to the Graduate College for final review and approval. A student should submit the Proposed Plan of Study for a Graduate Certificate form to the Graduate College shortly after admission to the certificate program (for certificates that can be completed in one or two semesters) or in the semester when at least half of the total credit requirement for the certificate is expected to be met (if the student anticipates spending more than two semesters to complete the certificate). If any deficiencies are found in the list of courses on the Proposed Plan of Study for a Graduate Certificate form, the Graduate College will notify the student and help find remedies that are acceptable to the Graduate College. The Graduate College cannot guarantee that these remedies will not delay progress by the student toward the certificate. It is therefore in the best interests of the student to submit the Proposed Plan of Study for a Graduate Certificate form in a timely manner. Once the Proposed Plan of Study for a Graduate Certificate form is approved by the Graduate College, the student is notified. A change in an approved Proposed Plan of Study for a Graduate Certificate, 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 to the Graduate College (see Adjustment of Academic Requirements below).

Choice of Graduate Catalog

A student enrolled in a graduate degree or certificate program 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 the student is admitted to the program by the Graduate College. The program requirements so specified by the student will be used by the Graduate College to evaluate the Application for Admission to Candidacy form (for a degree program) or the Proposed Plan of Study for a Graduate Certificate form (for a certificate program), and by the Registrar for the final degree or certificate audit.

Adjustment of Academic Requirements

The Boise State University Graduate Catalog chosen by a student determines the program requirements that must be met by the student (see Choice of Graduate Catalog above). The specific courses that have been approved by the Graduate College as meeting those program requirements are known as the academic requirements for the student, and are listed on the approved Application for Admission to Candidacy form (for a degree program) or the approved Proposed Plan of Study for a Graduate Certificate form (for a certificate program). A student 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

A student 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 come in proper order, and each subsequent step cannot be undertaken until the student successfully completes the prior step:

1. The thesis or dissertation is defended by the student 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.
2. The student makes any modifications that may be required by the defense committee and submits the revised thesis or dissertation to the chair of the supervisory committee (or designee) for a final reading approval.
3. The student electronically submits the thesis or dissertation and supporting documentation to the Graduate College for a format review by the Coordinator of Theses and Dissertations, and responds to any corrections that may be required by the Graduate College.

After successfully completing all corrections required by the Graduate College under the format review, the student electronically
submits the final version of the thesis or dissertation to the Graduate College for review by the graduate dean. The thesis or dissertation requirement of a graduate degree program is not considered satisfied until the graduate dean approves this final version.

The detailed requirements and procedures of the format review are given in a manual called Standards and Guidelines for Theses and Dissertations (available online from the Graduate College). A thesis or dissertation that does not conform to the Standards and Guidelines for Theses and Dissertations will be returned by the Graduate College to the student for corrections. The issues addressed in Standards and Guidelines for Theses and Dissertations ensure that the thesis or dissertation is complete in terms of the components required by the Graduate College, that the final version meets technical publication standards (e.g., minimum margins for binding purposes), and that certain legal requirements involving copyright are given proper attention by the student. The Graduate College also has the authority to make rulings on matters of style, but since these concerns often depend on the discipline, considerable latitude to determine style is granted to the academic units responsible for individual graduate programs. Although an official format review cannot be initiated until the chair of the supervisory committee (or designee) has granted final reading approval of the thesis or dissertation, the Graduate College will provide preliminary advice on request. Students with questions about any aspect of the format review are encouraged to contact the Coordinator of Theses and Dissertations.

After the thesis or dissertation has passed the format review, the student must submit the final version as an electronic file to the Graduate College for posting to the digital university repository (ScholarWorks). Submission of the final version to the Graduate College should take place before the deadline published in the academic calendar. Also, with very few exceptions, the academic unit responsible for the thesis or dissertation requires an archival bound paper copy. The Graduate College provides an electronic process for a student to order the required paper copy for the academic unit, plus any additional paper copies such as those for personal use.

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. Theses and dissertations are archived and made publicly accessible 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. These conditions are requested by the student and reviewed by the Graduate College on an Access Agreement for a Thesis or Dissertation form. Approval by the Graduate College of an Access Agreement for a Thesis or Dissertation form is a graduation requirement for all students who complete a thesis or dissertation as part of a graduate degree program.

Students doing research with human subjects or animals must document IRB or IACUC approvals with documentation in an appendix of the thesis or dissertation.

Report of Culminating Activity

The term culminating activity refers to a summary exercise that is carried out by a graduate student with a high degree of independence, is based on advanced study and accumulated graduate experience, is integrative in nature, and is typically the focus of the student near the end of his or her graduate career. The traditional culminating activities for master's students 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 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). However, if a culminating activity is not represented by a course, then the result of the activity must be documented by a Report of Non-Transcripted Culminating Activity form that is submitted to the Graduate College by the academic unit responsible for the graduate program.

Applying for Graduation

A student nearing completion of the requirements for a graduate degree or certificate program must apply for graduation and pay the required graduation fee. This process initiates a final audit of the student's academic records by the Registrar and reserves an official embossed diploma or certificate. To apply for graduation and pay the graduation fee, a student logs on to myBoiseState and chooses the Apply for Graduation option from the drop down list under Academics. The process should be completed no later than the deadline published in the academic calendar for the semester or summer session in which the student intends to complete the degree or certificate requirements. The month of the expected date of graduation is May for students finishing in the spring semester, August for students finishing in the summer session, and December for students finishing in the fall semester. Students who miss their expected date of graduation twice are placed on inactive status by the Registrar and are required to contact the Registrar 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. A student completing a graduate certificate program is not eligible to participate in commencement unless he or she is also a candidate for a graduate degree and has been cleared for participation by the Registrar. Diplomas and certificates are mailed to recipients after satisfactory completion of a final degree audit of all program requirements by the Registrar.

Program Time Lines

All time lines associated with graduate degree and certificate programs are published each semester or summer session in the Boise State University's Academic Calendar. These time lines include application and fee payment deadlines, last day to add and drop courses, starting and ending dates for seminars and sessions, last days for filing program forms, final oral examinations, and the submission deadlines for theses and dissertations. It is the responsibility of the student to be familiar with these time lines.
Regulations for Graduate Certificate Programs

Description
A graduate certificate program is limited in scope relative to a graduate degree program but provides 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 the student transcript. Subject to the regulations that govern a specific program, a graduate certificate can often serve as an intermediate accomplishment for a student whose ultimate goal is a graduate degree.

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

Credit Requirements
The program of study leading to a graduate certificate must satisfy the following two stipulations: 1) the total credit requirement cannot exceed half of the total number of credits required by the most closely related master's degree program offered by the University; 2) the total credit requirement must include at least nine graduate credits earned in courses exclusive of university-wide graduate courses 591-598 686-693, and 696-697. Any deviation by the certificate curriculum from these two stipulations must be approved by the Graduate Council. A limited number of credits earned in undergraduate courses may be applied to meet the credit requirements (see Restrictions on Certain Courses below). In all cases, at least two thirds of the total credit requirement must be earned at Boise State University since admission to the program. All credit must be academic credit and must be approved for application by the graduate program coordinator.

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

Duration of Graduate Study
All requirements for a graduate certificate (including courses completed at another college or university) must be started and completed within a single continuous interval of no more than four years.

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

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

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

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

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

Questions About These Regulations?
Contact the Office of the Graduate Dean
Riverfront Hall, Room 307
(208) 426-3647
http://graduatecollege.boisestate.edu/
E-mail: gradcoll@boisestate.edu
Regulations for Master’s Programs

Description

Although programs leading to a master’s degree are very diverse, they generally fall into two categories depending on overall emphasis and the nature of the culminating activity. Scholarly programs emphasize research or creative activities and require a thesis that is defended formally in a public setting and 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 students to contribute at an advanced level to the workplace and to the community.

Degree Requirements

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

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

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

Culminating Activity The program of study leading to a master’s degree must include at least one culminating activity that may be a thesis, project, portfolio, capstone course, series of practicums, performance recital or lecture recital, or comprehensive examination. The culminating activity or activities should be represented in a programmatic basis and must be approved by the Graduate Council.

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

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

Restrictions on Certain Courses

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

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

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

Previously Applied Courses In general, any course applied to a previously earned degree of any type at any institution cannot be applied to meet the credit requirements of a master’s program. The only exception is a course that qualifies for application under regulations for a second master’s degree at Boise State University (see Second Master’s Degree below) or an accelerated master’s degree. Each course allowed under this exception is subject to the following additional restrictions:

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

Courses allowed under this exception are also limited by any stipulations that apply to the requirements for second master’s degrees and accelerated master’s degrees.

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

Thesis

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

Thesis Proposal A thesis proposal must be approved in advance by the supervisory committee. The thesis proposal presents the background, objectives, scope, methods, and time lines of the thesis research. Substantive work done by the student prior to the appointment of the supervisory committee or work represented by
Registration for Thesis Credit  A master's student must register for at least one credit of 593 Thesis in any semester or session in which the student is engaged in thesis activity, including the semester or session of the final oral examination, regardless of the number of 593 Thesis credits already accumulated by the student. The student is 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 the chair of the supervisory committee (or designee). The student 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 the student 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 academic unit responsible for the 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 the student fails the final oral examination. See Final Oral Examination and Failure of a Final Oral Examination below.

Final Thesis Approvals and Procedures  It is important for the student to keep in mind that 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 a student for graduation. A thesis that has been successfully defended by the student at the final oral examination must also be granted final reading approval by the major advisor (chair of the supervisory committee), and must pass the format review of the Graduate College. The thesis in final form must also be approved by the Dean of the Graduate College, and because the thesis is expected to be available to other scholars and to the general public, the entire thesis must be archived and made publicly accessible. Please refer to Theses and Dissertations in the Graduate Academic Regulations section of this catalog.

Portfolio

A portfolio is a substantial collection of selected work that demonstrates the student's efforts, progress, and accomplishments in one or more areas of the curriculum. The portfolio is a culminating activity, although students 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 their academic careers 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 the student's 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 academic unit responsible for the graduate program. The student registers 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 must be taken in the last semester of a master's program and may be a grade-point course or pass-fail course. A capstone course may be designated with a program-specific graduate course number or may use university-wide graduate course 692 Capstone Course.

A student who receives a grade of \( F \) in a capstone course may not graduate in that semester or term, regardless of whether the student is 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, a student 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 academic unit responsible for the program may impose additional conditions to be met by the student prior to the examination, such as completion of all courses required for the degree.

Considerable autonomy is granted to the academic unit in the design, administration, and evaluation of a master's comprehensive examination. However, the student must be registered for at least one 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 the student passes the comprehensive examination, a grade of pass (P) is submitted for the 690 credit(s). If the student fails the comprehensive examination, then the academic unit responsible for the program follows the procedure described in Failure of a Comprehensive Examination (below).

Final Oral Examination

The Graduate College requires a final oral examination (also called a defense) for a master's student only if the student is completing a thesis as a culminating activity. The examination must consist of three sequential parts in which the student presents and defends the thesis research: 1) a public presentation, 2) a public question and answer session, and 3) a private question and answer session with a committee of experts known as the defense committee. The final oral examination 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 a student who passes the final oral examination has 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 weeks.

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

The result of a final oral examination for a master’s student 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 academic unit responsible for the program requires a unanimous vote for pass. If a tie vote occurs, then the student is 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. See Failure of a Final Oral Examination (below).

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 as described in this section. A comprehensive examination that is failed on the first attempt can be repeated once, but only if a second attempt is requested by the student and approved by the academic unit responsible for the program. The request by the student for a second attempt must be in writing to the head of the academic unit and must be made within five working days after the student is notified of his or her failure. If a second attempt is not requested by the student, or if a request is made by the student but not approved by the academic unit, then a grade of fail (F) is assigned to the 690 credit(s) and the student is dismissed from the program by the Graduate College. Any extension of the twelve-month limit on the second attempt must be approved by the academic unit and by the Dean of the Graduate College.

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 593 Thesis as described in this section. A final oral examination that is failed on the first attempt can be repeated once, but only if a second attempt is requested by the student and approved by the academic unit responsible for the program. The request by the student for a second attempt must be in writing to the head of the academic unit and must be made within five working days after the student is notified of his or her failure. If a second attempt is not requested by the student, or if a request is made by the student but not approved by the academic unit, then a grade of (F) is assigned to all 593 credits and the student is dismissed from the program by the Graduate College. If the student's request is approved by the academic unit, then the second attempt must occur within twelve 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 the student does not make the second attempt within twelve months after the first attempt, or if the student fails the second attempt, then a grade of fail (F) is assigned to the 690 credit(s) and the student is dismissed from the program by the Graduate College. Any extension of the twelve-month limit on the second attempt must be approved by the academic unit and by the Dean of the Graduate College.
occur within twelve months after the first attempt, and IP grades are
maintained for all 593 credits until the result of the second attempt
is known. If the student does not make the second attempt within
twelve months after the first attempt, or if the student fails the
second attempt, then a grade of (F) is assigned to all 593 credits and
the student is dismissed from the program by the Graduate College.
Any extension of the twelve-month limit on the repeat attempt must
be approved by the academic unit and by the Dean of the Graduate
College.

Second Master’s Degree

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

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

Handbook of Procedures

An academic unit may compile a handbook of procedures for a
master’s program for which the unit has responsibility. A copy may
be obtained through the graduate program coordinator for the
program.

Questions About These Regulations?
Contact the Office of the Graduate Dean
Riverfront Hall, Room 307
(208) 426-3647
http://graduatecollege.boisestate.edu/
E-mail: gradcoll@boisestate.edu
Regulations for Doctor of Philosophy Programs

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

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

Credit Requirements The program of study leading to a Ph.D. degree must satisfy the following minimum credit requirements: 66 total, at least half of which need to be earned in courses exclusive of dissertation. All credit applied to meet the credit requirements must be graduate academic credit except that a limited number of credits earned in undergraduate courses outside the major field of study are allowed (see Restrictions on Certain Courses). In all cases, at least two thirds of the total credit requirement must be earned at Boise State University since admission to the program. All credit must be approved for application by the supervisory committee.

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

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

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

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

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

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

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

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

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

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

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

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

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

Considerable autonomy is granted to the academic unit in the design, administration, and evaluation of the doctoral comprehensive examination for a Ph.D. student. However, the student 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 the student passes the comprehensive examination, a grade of pass (P) is submitted for the 691 credit(s). If the student fails the comprehensive examination, the academic unit responsible for 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 Ph.D. 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 as described in this section. A comprehensive examination that is failed on the first attempt can be repeated once, but only if a second attempt is requested by the student and approved by the academic unit responsible for the program. The request by the student for a second attempt must be in writing to the head of the academic unit and must be made within five working days after the student is notified of his or her failure. If a second attempt is not requested by the student, or if a request is made by the student but not approved by the academic unit, then a grade of (F) is assigned to the 691 credit(s) and the student is dismissed from the program by the Graduate College. If the student's request is approved by the academic unit, then the second attempt must occur within twelve months after the first attempt, and an incomplete grade (I) is assigned to the 691 credit(s) until the result of the second attempt is known. If the student does not make a second attempt within twelve months after the first attempt, or if the student fails the second attempt, then a grade of (F) is assigned to the 691 credit(s) and the student is dismissed from the program by the Graduate College. Any extension of the twelve-month limit on the second attempt must be approved by the academic unit and by the Dean of the Graduate College.

Dissertation

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

Dissertation Proposal

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

Registration for Dissertation Credit

A Ph.D. student must register for at least one credit of 693 Dissertation in any semester or session in which the student is engaged in dissertation activity, including the semester or session of the final oral examination, regardless of the number of 693 Dissertation credits already accumulated by the student. The student cannot undertake the final oral examination unless enough 693 Dissertation credit has been accumulated to meet the degree requirement for such credit. The student is 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 the chair of the supervisory committee (or designee). The student 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 the student 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. See Final Oral Examination and Failure of the Final Oral Examination (below).

Final Dissertation Approvals and Procedures

It is important for the student to keep in mind that a grade of pass (P) in all 693 credits is not sufficient to satisfy the dissertation requirement for a Ph.D. degree and does not clear a student for graduation. A dissertation that has been successfully defended by the student at the final oral examination must also be granted final reading approval by the major advisor (chair of the supervisory committee), and must pass the format review of the Graduate College. The dissertation in final form must also be approved by the Dean of the Graduate College, and because the dissertation is expected to be available to other scholars and to the general public, the entire dissertation must be archived and made publicly accessible. Please refer to Theses and Dissertations in the Graduate Academic Regulations section of this catalog.

Final Oral Examination

The final oral examination for a Ph.D. student (also called a defense) must consist of three sequential parts in which the student presents and defends the dissertation research: 1) a public presentation, 2) a public question and answer session, and 3) a private question and answer session with a committee of experts known as the defense committee. The 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 a student who passes the final oral examination has 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 weeks.

The defense committee must include the entire supervisory committee plus a nonvoting graduate faculty representative (GFR) appointed by the Dean of the Graduate College. The GFR must be a member of the Graduate Faculty and a member of an academic unit not represented on the supervisory committee. The GFR conducts
at the request of the academic unit responsible for the Ph.D. program, the Dean of the Graduate College 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 academic unit that is responsible for the Ph.D. program.

The result of a final oral examination for a Ph.D. student 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 academic unit responsible for the program requires a unanimous vote for pass. If a tie vote occurs, then the student is 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. See Failure of the Final Oral Examination (below).

Failure of the Final Oral Examination
Failure of a final oral examination (any attempt by a Ph.D. 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 as described in this section. A final oral examination that is failed on the first attempt can be repeated once, but only if a second attempt is requested by the student and approved by the academic unit responsible for the program. The request by the student for a second attempt must be in writing to the head of the academic unit and must be made within five working days after the student is notified of his or her failure. If a second attempt is not requested by the student, or if a request is made by the student but not approved by the academic unit, then a grade of (F) is assigned to all 693 credits and the student is dismissed from the program. If the student's request is approved by the academic unit, then the second attempt must occur within twelve months after the first attempt, and IP grades are maintained for all 693 credits until the result of the second attempt is known. If the student does not make a second attempt within twelve months after the first attempt, or if the student fails the second attempt, then a grade of (F) is assigned to all 693 credits and the student is dismissed from the program by the Graduate College. Any extension of the twelve-month limit on the repeat attempt must be approved by the academic unit and by the Dean of the Graduate College.

Handbook of Procedures
An academic unit may compile a handbook of procedures for a doctoral program for which the unit has responsibility. A copy may be obtained through the graduate program coordinator for the program.

Questions About These Regulations?
Contact the Office of the Graduate Dean
Riverfront Hall, Room 307
(208) 426-3647
http://graduatecollege.boisestate.edu/
E-mail: gradcoll@boisestate.edu
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 Graduate Admission and Degree Services or the department from which you intend to take courses. Prior to registration, all students are encouraged to seek advising.

Registration is held at the beginning of each semester and at the beginning of summer sessions. All registration is completed online by selecting the myBoiseState link on the Boise State University home page at www.boisestate.edu. You may register from your home or office, or at an on-campus computer lab. The Registrar’s Office, Administration Building, Room 110, (208) 426-4249, assists those students not familiar with the web process. You must have your username and password when you register.

Registration for Continuing, New and Readmitted Students

Graduate students are initially assigned a registration appointment for fall and spring semesters.

- Fall 2014 appointments begin March 31, 2014
- Spring 2015 appointments begin October 27, 2014

Open registration begins after the fee-payment deadline for preregistered students and runs through the 10th day of the fall and spring semesters. Appointments are not assigned for summer sessions.

- Summer 2015 open registration begins February 17, 2015.

Registration Cancellation

If you wish to adjust your schedule, see instructions for adding and dropping classes. If you wish to withdraw from classes after the first day of instruction, see the instructions for Complete Withdrawal from Boise State University.

Academic Calendar

Boise State University’s Academic Calendar, which lists all of the registration deadline dates for the current catalog year, can be found in the front of this catalog. The 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 Academic Calendar Deadlines by Session table, as you will be held accountable for meeting these deadlines. Online at http://registrar.boisestate.edu/academic-calendar.shtml.

Academic and Fee Policy

Once you register for classes, you will remain registered and are responsible for the fees and grades assessed for these classes unless you cancel your registration, even if you do not pay for the courses or do not plan to attend. If you decide not to attend any classes, you must drop all your classes online (including classes and workshops that begin later in the semester) by going through myBoiseState at http://my.boisestate.edu/ not later than 10th day of classes.

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.

Credit Courses and Audit Courses

During registration, if space in the class is available, you may register for a course under audit status with the understanding that you have a seat in the class, but you will not receive credit for the course. The instructor may not require you to attend class regularly, complete assigned work, take tests, or otherwise participate in the class. The other hand, the instructor can require of you everything that is required of students who take the course for credit. Therefore, before registering under audit status, discuss your plans with the instructor.

In any of the classes in which you are enrolled, you can change the course status from credit to audit or from audit to credit before the appropriate session deadline. Please note that if you change the status from credit to audit, or from audit to credit, your instructor still defines the requirements for successfully completing the class. If you fail to meet those requirements under audit course status, your instructor may give you a final grade of ‘UAU’ (for Unsatisfactory Audit). To change your registration status, access the Website at www.boisestate.edu and select myBoiseState to complete the process. Please be aware that audited courses do not count towards financial aid eligibility.

Adding Classes

Before the semester begins, you may add classes to your schedule on myBoiseState (http://my.boisestate.edu/), if there is space available in the class, and you meet the prerequisite. 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 deadline appropriate to the session. However, after the fifth day of the semester’s regular session you must obtain the instructor’s approval to add the class. Instructors may refuse to grant permission 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 permission if your late entry would prevent you from benefiting fully from the class or would prevent other students in the class from doing so. (If you are registering for or adding graduate 590 Practicum/Internship, 592 Portfolio, or 595 Reading and Conference, or undergraduate 496 Independent Study, challenge, or credit for prior
Registation Policies and Procedures

For more information about adding classes, see the Boise State University Registration Guide, http://registrar.boisestate.edu/registration-guide, or call the Registrar's Office at (208) 426-4249.

Waitlisting—When attempting to enroll in a full course, most of the time 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 or not 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 e-mail, sent to your BroncoMail account. If you are on multiple waitlists for different sections of 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 instructor permission (see the Academic Calendar for date). 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.

Dropping Classes

You may drop from your schedule regular session classes on myBoiseState (http://my.boisestate.edu/) through the sixth week of the semester. See the Academic Calendar Deadlines by Session table in this catalog for the exact deadline. If you drop a regular session class before the 10th day of the semester, the class will not appear on your transcript. However, if you drop a class after the 10th day of the semester, your transcript will show a grade of W (for withdrawal) for that class. Grades of W will not be used in GPA calculation. Workshops, short courses, five-week, and eight-week block courses have different deadline dates. (See the Academic Calendar Deadlines by Session table in this catalog for the exact drop deadline.)

Drop Fee—As a student 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, see the Boise State University Registration Guide, http://registrar.boisestate.edu/registration-guide.shtml, or call the Registrar's Office at (208) 426-4249.

Workshops

Adding a Workshop You must register for a workshop prior to the first day of the workshop. To enroll in a workshop that is full and hasn't started yet, you must submit a Registration Override Form, with the instructor's signature, to the Registrar's Office, Administration Building, Room 110, no later than the day before the workshop starts.

Rules for Dropping a Workshop

- A workshop will not appear on your transcript, if you drop the workshop prior to the day it starts.
- You will receive a grade of W on your transcript, if you drop on the day the workshop begins, or any day up until the last day before the workshop ends.
- You will receive a grade of F on your transcript, if you attempt to drop a workshop on the last day it is being held or later.

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 by using the Requesting Approval for Dropping A Class After the Deadline form, to the dean (or associate dean) of the college of the course. Read the instructions, fill out the form, submit a written letter, and provide documentation of extenuating circumstances that would classify an exemption to the drop deadline policy. If the dean or associate dean signs the form, then you can proceed to request approval and signature from the instructor. The instructor may still deny the appeal. Once you receive all required signatures, you must submit the form to the Registrar's Office, Administration Building Room 110, for processing. The form is located online at http://registrar.boisestate.edu/forms/students.shtml.

Withdrawals

Boise State recognizes that students may occasionally need to drop a course. Students are allowed a maximum number of W's associated with the completion of an associate or baccalaureate degree.

Boise State limits the number of withdrawals (W’s) a student may receive while enrolled at Boise State University. If you are a graduate student and wish to pursue a second degree at the associate or baccalaureate level please note the following:

- Effective for all W’s received in the Spring 2014 semester or after, students may accrue up to ten (10) withdrawals (W’s) for a baccalaureate degree and up to five (5) W’s for an associate degree. Any W’s received in an associate degree program count toward the 10 allowed for the baccalaureate degree program.
- Withdrawals from co-requisite courses (lecture/lab) will count as one W, unless the co-requisite courses are two separate courses.
- Any withdrawal grade (W) given as a result of a complete withdrawal will not count toward the ten total allowed.
- Once a student has exhausted the number of W’s allowed, the student may be removed from his/her major.
- Students may earn an additional ten (10) W’s toward a second baccalaureate degree or an additional five (5) W’s toward an additional associate degree.
- W’s earned prior to Spring 2014 semester are not counted toward the number allowed.

Note: The university has placed limits on the number of times you may enroll in a course. See Repetition of Courses in the Graduate Academic Regulations section of this catalog for more information.

Note: If you intend to drop a class in which you have been issued university property—such as uniforms, instruments, or lab equipment—you must return the property before dropping the class. If you fail to do so, the department will place a hold on your record and could have you reinstated in the class.
Faculty-Initiated Withdrawal
You should not expect that an instructor will withdraw you for nonattendance. The primary responsibility for course withdrawal rests with you. An instructor has the option of withdrawing you from a course if any of the following conditions are present:

- The student fails to attend one of the first two meetings of a class that meets more than once each week.
- The student fails to attend the first meeting of a class that meets once each week.
- The student has not satisfied the entrance requirements for the class.

To withdraw a student for failing to attend one of the first two meetings of a class that meets more than once each week or the first meeting of a class that meets once each week, the instructor submits a Faculty-Initiated Drop Form to the Registrar's Office. Students withdrawn from a course for failing to attend these specified class meetings may re-enroll in the course with the instructor's permission through the 10th day of the semester (see the Academic Calendar Deadlines by Session table in this catalog for the exact deadline of the various sessions). To withdraw a student for failing to satisfy entrance requirements, the instructor or the department must notify the student of the impending withdrawal and then request the withdrawal through the Registrar's Office. All faculty-initiated withdrawals will be removed from the student's record and will not appear on the student's transcript.

To withdraw a student for failing to satisfy entrance requirements, the instructor or the graduate program coordinator must notify the student of the impending withdrawal and then request the withdrawal through the Registrar's Office. All faculty-initiated withdrawals will be removed from the student's record and will not appear on the student's transcript.

Complete Withdrawal from Boise State University
If you wish to leave the University in good standing you must drop all your classes on myBoiseState (http://my.boisestate.edu/) and remove yourself from any waitlists. 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 10th 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, completely withdraw by the appropriate deadline for the session, you will be awarded a grade of F.

Complete withdrawal after the published deadline will only be granted by special appeal and because of extraordinary circumstances through the Office of the Dean of Students. An online form, instructions and FAQs are found at http://deanofstudents.boisestate.edu; (208) 426-1527; Norco Building, Suite 116.

For information on refunds of tuition and fees following a complete withdrawal, see Tuition and Fees. For important information concerning withdrawals for students receiving financial aid, see Change in Enrollment Status in Financial Aid for Graduate Students.

Administrative Withdrawal from Boise State University
An administrative withdrawal is the process by which Boise State University formally withdraws a student from the university, usually without the student's consent or cooperation. In performing its function as an institution of higher learning, Boise State may administratively withdraw any student who interferes with the university's ability to perform that function. In addition, students may be administratively withdrawn for a variety of other reasons, including the following:

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

To initiate an administrative withdrawal, see Boise State University Policy Manual, BSU Policy 4185, http://policy.boisestate.edu/.

Questions About These Policies?
Contact the Registrar's Office, Administration Building, Room 110, (208) 426-4249.
Grades

Boise State University’s Grading System

Boise State University uses a 4.0 grading scale. Table 3 lists the letter grades that instructors use to document their evaluation of your work and to document your academic status in the class. In addition, Table 3 defines the meaning of each letter grade and specifies the number of quality points that correspond to each grade. Quality points are used to determine your grade-point average (GPA). The procedure for calculating your GPA is described below, in How to Calculate Your Grade-Point Average (GPA).

How to Calculate Your Grade-Point Average (GPA)

For each student, Boise State University calculates and documents three types of grade-point averages (GPA):

- cumulative GPA
- semester (term) GPA
- Boise State University GPA

Each of the three types of GPA is calculated with the same formula: total quality points you have earned divided by the total number of GPA units you have attempted, as shown in Figure 1.

![Figure 1. Formula for Calculating Grade Point Average (GPA)](image)

In calculating your cumulative GPA, Boise State University 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 University GPA, the formula uses only quality points earned and GPA credits attempted at Boise State University 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)
- courses in which you received the grade of I, for incomplete; or IP, for in-progress; (until the I or IP is changed to a letter grade)

### Table 3: Letter Grades

<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 equivalent to C or higher; credits earned</td>
<td>0</td>
<td>No</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete (see “Incomplete” 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 accumulated will be changed to a grade of W.
Incompletes

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

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

In order to receive an incomplete 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 submit a grade.

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. A grade of incomplete is excluded from GPA calculations until you receive a final grade in the course.

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

Questions About These Policies?
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. You may pay with cash, check, Visa, MasterCard, or Discover.

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

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

You are expected to pay all tuition, fees, and other charges by the deadline specified in the current academic calendar. If you register after the deadline, you will be expected to pay all tuition, fees, and other charges when you register.

Access your student account on MyBoiseState to find out deadlines for paying tuition, fees, and other charges. Boise State does not mail out paper statements. Login to http://my.boisestate.edu/. Once you are in, select: Students Center, Finances. 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 http://vpfa.boisestate.edu/student-financial-services/.

### Fee Payment Plan

Information regarding fee payment plans may be obtained in Payments and Disbursements, Administration Building, Room 101, (208) 426-1212 or online at http://vpfa.boisestate.edu/student-financial-services/.

### How Boise State University Calculates Your Tuition and Fees

When you apply for admission to Boise State University, you pay a one-time, nonrefundable fee for processing your application. To calculate your other tuition and other fees, Boise State University uses a milestone of nine credits per semester. Once you register for nine or more credits, you are required to pay the full tuition and fees shown in Table 4 below.

### Table 4

**Full-time Graduate Fees, Per Semester (9 credits or more)**

<table>
<thead>
<tr>
<th>Tuition and Fees</th>
<th>Resident</th>
<th>Nonresident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$2,310.25</td>
<td>$8,736.25</td>
</tr>
<tr>
<td>Institutional Fees*</td>
<td>$1,601.75</td>
<td>$1,601.75</td>
</tr>
<tr>
<td>Total (for up to 17 credits)</td>
<td>$3,912.00</td>
<td>$10,338.00</td>
</tr>
<tr>
<td>Overload Fee**</td>
<td>$170.00 per credit hour</td>
<td>$170.00 per credit hour</td>
</tr>
</tbody>
</table>

*Does not include per semester Student Health Insurance Plan (SHIP) premium that may be waived with proof of other insurance.

** An overload fee is imposed if you register for more than 17 credits. Each credit over 17 costs $170.00 per credit.

In determining whether you have reached the total 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 the 9-credit total. Please note, also, that developmental courses (such as ENGL 90 Developmental Writing or MATH 25 Elementary Algebra) count as 3 credits each toward the 9-credit total, 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 University.

### 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 application processing fee once when you first apply for admission to Boise State. You pay the music fee if you register for private music lessons, and you pay the overload fee whenever you enroll for more than 18 credits in a single semester.

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

### Table 5

**Part-time Graduate Fees, Per Semester or Session (less than 9 credits)**

<table>
<thead>
<tr>
<th>Semester or Session</th>
<th>Resident per credit</th>
<th>Nonresident per credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer 2014</td>
<td>$316.00</td>
<td>$316.00</td>
</tr>
<tr>
<td>Fall 2014 and Spring 2015</td>
<td>$331.00</td>
<td>$531.00*</td>
</tr>
<tr>
<td>Summer 2015</td>
<td>$327.00</td>
<td>$327.00</td>
</tr>
</tbody>
</table>

*Includes $200.00 nonresident per credit tuition fee.
Senior Citizen Rate

If space in a course is available, Idaho residents who are at least 60 years old may register for the course and pay $5 per credit hour, a $20 registration fee (per semester), and any special fees (such as for private music lessons or laboratory fees). Self-support classes cannot be waived. To register at the senior citizen rate, first apply for admission, then you will need to go to the Payment and Disbursement Center, Administration Building, Room 101, Boise State University, 1910 University Drive, Boise, ID 83725, and show the cashier your driver’s license, birth certificate, or other proof of your age to receive the reduction for fees.

Refund Policy

In general, if you completely withdraw from Boise State University on or before the 10th 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 $40.00 administrative fee). If you withdraw after the 10th 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 University considers only the date on which you officially withdraw—not the date on which you stopped attending class. Also, registering late has no effect on refund deadlines; Boise State University has published deadlines for 100% refund or waiver of fees. These deadlines differ depending upon which session the course is in. Please refer to the Academic Calendar Deadlines by Session table in the front of this catalog for specific deadlines for the various sessions. Failure to drop the course or cancel registration by the published 100% deadline results in assessment of full fees for the course(s).

All students who completely withdraw from Boise State will be assessed a $40.00 administrative withdrawal fee.

Fee Appeals: Students who wish to appeal for a refund or waiver of the course fees they are assessed should contact Account Maintenance, Room 101, Administration Building, (208) 426-2134 or utilize the appeal form located at http://vfps.boisestate.edu/student-financial-services/forms/.

Student Health Insurance Plan (SHIP)

Idaho State Board of Education Policy III.P.16, requires full-fee paying students attending classes in Idaho to maintain adequate health insurance. Boise State University students registered for full-time full-fee paying credits are automatically enrolled in the university-sponsored Student Health Insurance Plan (SHIP), with the premium charge added to their tuition and fees. Students who provide proof of continuous enrollment in an Affordable Care Act compliant health insurance plan with comparable benefits are able to waive out of the SHIP coverage each semester. Students enrolled in SHIP are eligible to purchase coverage for any dependent children under the age of 26 for an additional charge. Dependent coverage is based on your enrollment status, with premiums paid directly to the SHIP Insurance Carrier.

Students who provide proof of continuous enrollment in an alternative an Affordable Care Act compliant health insurance plan with comparable benefits are able to waive out of the SHIP coverage each semester. Waiver requirements can be found at http://healthservices.boisestate.edu/insurance/SHIP/waiver/requirements/. If your alternative health insurance plan meets all of the comparability requirements, please log on to http://my.boisestate.edu/ to submit your health insurance waiver request (must be filed online). After you are logged in, select Student Center, select Health Waiver App from the My Account menu in the Finances section. Waivers must be filed each semester.

All international students are automatically enrolled in the university sponsored Student Health Insurance Plan (SHIP), with the premium charge added to their tuition and fees billing. Intercollegiate athletes are required to be enrolled in the university sponsored Student Health Insurance Plan (SHIP), with the premium charge added to their tuition and fees billing. Inter session classes and other non-full fee paying students, that have classes that are billed on a per credit basis (check class notes), but are full time who wish to be enrolled in SHIP need to contact the Health Insurance and Billing Office at healthinsurance@boisestate.edu or (208) 426-2158 by the 10th day of classes each semester to be enrolled. Part-time students may be eligible to enroll in SHIP voluntarily. Students must contact the Health Insurance and Billing Office at healthinsurance@boisestate.edu or (208) 426-2158 no later than the 10th day of classes each semester to enroll.

Senior citizen and all other fee waiver students who are full-time and wish to be enrolled in SHIP need to contact the Health Insurance and Billing Office at healthinsurance@boisestate.edu or (208) 426-2158 by the 10th day of classes each semester to be enrolled.

Note: All students may obtain medical and counseling services at the Health Center in the Norco Building, 1529 Belmont Street. Please call (208) 426-1459 for additional information or to schedule an appointment. For questions about enrollment or waiver applications, contact the Health Insurance and Billing Office at (208) 426-2158 or healthinsurance@boisestate.edu.
Procedures to be Observed in Determining Residency for Tuition Purposes Boise State University

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

1. Contact the Residency Coordinator in the Registrar's Office, Room 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 the individual meets the criteria for residency and will notify the individual in writing of the decision.
4. The applicant 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 they believe they have met the criteria and on what basis they should be given residency. The appeal should be turned in to the Residency Coordinator. The applicant will be notified in writing of the decision of the Residency Appeals Committee.
5. If an applicant contests the determination of the Residency Appeals Committee that the applicant is not a qualified resident, the applicant may petition the State Board of Education for review. The petition must be submitted to the President of Boise State University in writing and must set forth the applicant’s reasons for contesting the decision. The President will submit the petition to the Executive Director of the Office of the state Board of Education who will determine whether the Board or the Board’s designated representatives will hear the appeal. If the Board decides to hear the appeal, it will set forth the scope of review and notify the applicant of the time, date, and place of the hearing. The decision of the Board is final and binding on all parties concerned. The student must agree to the release of information to the review body and must comply with deadlines established by the institution for requesting an appeal.

Initial Determination of Residency Status

When you apply to Boise State University, the Admissions Office determines your status as a resident or non-resident for tuition purposes. For questions about your residency status, please contact the Registrar's Office at (208) 426-4249.

Following are the options under which a student may qualify for Idaho residency; at least one of these must be met for consideration:

1. One or more parent(s)/legal guardian(s) of the student is a resident of the state of Idaho and provides at least 50% of the student's financial support. The parent(s)/legal guardian(s) must have maintained a bona fide domicile1 in the state of Idaho for at least 12 months prior to the semester in which the student is applying for residency.
2. The student receives less than 50% financial support from their parent(s)/legal guardian(s) and has continuously resided2 in Idaho primarily for purposes other than education. The student must have owned his or her own living quarters for a period of at least 6 months before the semester in which the student is applying for residency.
3. The student graduated from an Idaho high school and immediately following enrolled in an Idaho college or university and has continued to be and presently enrolled in an Idaho college or university.
4. The student is married to an Idaho resident.
5. The student is a member of the Armed Forces4 stationed in the state of Idaho on military orders.
6. The student is an officer or enlisted member in the Idaho National Guard.
7. One or more of the student’s parent(s)/legal guardian(s) is a member of the Armed Forces4 stationed in the state of Idaho on military orders and provides at least 50% of the student’s financial support.
8. The student is separated under honorable conditions from the Armed Forces4 after at least two years of service and at the time of separation designated the state of Idaho as their intended domicile or indicated Idaho as their home of record of service; and will be entering Boise State University within one year of the date of separation, or 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 one (1) year of matriculation in a public institution of higher education in Idaho. The dependent of a person who qualifies as a resident student under this paragraph and who receives at least fifty percent (50%) support from such person shall also be a resident student.
9. The student has been away from the state of Idaho less than 30 months and has not established legal residence elsewhere; and the student continuously resided2 in Idaho for at least 12 months immediately prior to departure.
10. The student is a member of one of the following Native American tribes: (i) Coeur d’Alene tribe; (ii) Shoshone-Paiute tribes; (iii) Nez Perce tribe; (iv) Shoshone-Bannock tribes; or (v) Kootenai tribe.

Domicile means an individual’s permanent home; the place where they intend to remain and expect to return to when leaving without establishing a new home elsewhere. See below for information how to establish Idaho domicile.

Continuously Resided means physical presence in the state of Idaho for 12 consecutive months without being absent from Idaho no more than a total of 30 days.

Primarily Educational Purposes means a student enrolled for more than 8 credit hours in any semester during the past 12 month period.

Armed Forces means United States Army, Navy, Air Force, Marine Corps, and Coast Guard; it does not include National Guard from states other than Idaho and other reserve forces.

How does a student establish domicile in Idaho?

The student must be physically present in Idaho primarily for purposes other than education. The student must be domiciled in Idaho for 12 consecutive months and have established one or more of the following criteria prior to the opening day of the semester:

1. Filing an Idaho state income tax return covering a period of at least 12 months before the semester in which the student is applying for residency.
2. Permanent full-time employment in the state of Idaho for a period of at least 12 months before the semester in which the student is applying for residency.
3. The student has owned his or her own living quarters for a period of at least 12 months before the semester in which the student is applying for residency.
4. Establishment of 5 of the following 7 factors, if done at least 12 months before the semester in which the student is applying for residency:
   a. Registration and payment of Idaho taxes or fees on a motor vehicle, motor home, travel trailer, or other item of personal property for which state registration and the payment of a state tax or fee is required;
   b. Registration to vote for state elected officials in Idaho at a general election;
   c. Holding an Idaho driver’s license or Idaho state-issued ID card;
   d. Evidence of abandonment of a previous domicile;
   e. Presence of household goods in Idaho;
   f. Establishment of accounts with Idaho financial institutions;
   g. Other similar factors indicating intent to be domiciled in Idaho and the maintenance of such domicile. Factors may include, but are not limited to enrollment of dependent children in Idaho primary or secondary schools, establishment of acceptance of an offer of permanent employment for self in Idaho, or documented need to care for relative in Idaho.

For further detailed information, go to http://registrar.boisestate.edu/general-information-and-policies/idaho-residency/
Financial Aid for Graduate Students

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

**Graduate Assistantships**

Most departments award teaching or research assistantships that include a stipend and a waiver of fees. In addition, non-resident tuition is waived for any non-resident student who receives an assistantship award. You may obtain an application for an assistantship on the Internet at [http://graduatecollege.boisestate.edu/](http://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 BSU Policy 7170 at [http://policy.boisestate.edu/](http://policy.boisestate.edu/).

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

If you are awarded a Boise State assistantship, you are required to enroll for 9 or more credits in a graduate-degree program, maintain at least a 3.0 grade-point average, meet the program and semester GPA requirements as stated under Graduate Academic Regulations, and make satisfactory progress toward your degree. If you are enrolled for 5-8 credits in a graduate degree program, you may be eligible for a partial assistantship. Hours of service required would be assigned on a prorated basis as determined by the department.

In order to be eligible for reappointment, a graduate or research assistant must receive a satisfactory performance review each semester.

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

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

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

**Deadline for Departmental Aid**

You should apply for these awards when you apply for admission to the Graduate College—no later than March 1. 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.

**Note:** Financial aid is available only to students who are admitted to Boise State University in a degree or certificate program which has been approved for financial aid by the U.S. Department of Education. In addition, you must have an admissions status that meets financial aid eligibility requirements. For example, if you have applied to a graduate degree program but have Pending Department Review admission status, you are not eligible for federal financial aid until your status is changed to either Regular or Provisional.

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

**Federal, State, and Institutional Aid**

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

**How to Apply for Financial Aid**

Complete the [Free Application for Federal Student Aid (FAFSA)](http://www.fafsa.gov). You must submit the FAFSA each year to be determined eligible for most grant, loan, work-study, or need-based scholarship programs. You may use one of the following methods to apply:

- Apply using FAFSA on the web ([www.fafsa.gov](http://www.fafsa.gov)). If you’ve applied other years, use your PIN number. Request a duplicate pin at [www.pin.ed.gov](http://www.pin.ed.gov).
- Apply using renewal FAFSA on the web ([also at www.fafsa.gov](http://www.fafsa.gov)). The renewal application is simply a FAFSA that contains most of the information you provided last year, if you applied for aid the previous year. Updating the information may be faster for you than filling out a new FAFSA. You will need your PIN to complete the renewal FAFSA on the web.

**Tips in completing the FAFSA:**

- Boise State University Title IV Code is 001616.
- Boise State University Financial Aid address: 1910 University Drive, Boise, ID 83725-1315.
- Ensure that all information you provide on the application is entered correctly.
- Enter your name as it appears on your social security card
- Provide all required signatures; use your PIN number as a signature.
- Do not send tax documents or other materials with your application or signature page.
- If you provided an e-mail address on the FAFSA, you will receive an e-mail with a link to your Student Aid Report (SAR). If you did not provide an e-mail address, you will need to return to the FAFSA website to view your Student Aid Report. Review your SAR and make any necessary corrections.
- The Financial Aid and Scholarships Office uses MyBoiseState and BroncoMail to alert students of the need to provide additional materials, if required. Certain applicants are requested to provide...
Financial Aid for Graduate Students

The following is a summary of the most common criteria affecting Eligibility Requirements

- You may be required to complete an electronic master Promissory Note, or to complete loan entrance counseling requirements.
- Award acceptance: Once processing of your application is complete, your award information will appear on MyBoiseState. You may accept and decline your awards on MyBoiseState.
- Be aware of the following deadlines:
  - **February 15** Deadline for new graduate students to submit the FAFSA
  - **March 15** Deadline for continuing graduate students to submit the FAFSA. Students who submit the FAFSA by this date are given priority status and are among the first to be considered for Perkins Loans and work-study, based upon availability of funds.
  - **June 1** All documents and other information requested by the Financial Aid Office must be submitted by this date in order to retain priority status.

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

In considering applications for financial aid, the Financial Aid Office makes every effort to ensure that resources available through the university are distributed fairly. To determine need, the Financial Aid Office uses a formula mandated by the federal government.

Eligibility Requirements

The following is a summary of the most common criteria affecting student eligibility for financial aid.

- Complete the Free Application for Federal Student Aid (FAFSA) and receive an official Expected Family Contribution (EFC).
- Be admitted to Boise State University in a degree program or an eligible certificate program which has been approved for financial aid by the Department of Education. In addition, you must have an admissions status that meets financial aid eligibility requirements. For example, if you have applied to a graduate degree program but have Pending Department Review admission status, you are not eligible for federal financial aid until your status is changed to either Regular or Provisional.
- Enroll for the minimum number of credit hours required by the aid program. For example, to receive a Direct Loan, a graduate student must be enrolled in at least 5 credit hours/semester that apply directly towards a graduate degree. Students enrolled less than full-time (9 credits) may see a reduction in financial aid.
- Maintain Satisfactory Academic Progress standards (see detail on following pages).
- Be a U.S. Citizen, permanent resident, or eligible non-citizen. Federal financial aid is not available to international students attending Boise State on a student visa. (International students who encounter financial difficulties are encouraged to seek assistance from the International Student Services Office.)
- If you are male, you must be registered with Selective Service.
- You must not owe a repayment of any federal aid to Boise State, to any other school previously attended, or to the U.S. Department of Education.
- You must not be in default on a federal student loan.
- Submit all materials requested by the Financial Aid Office as soon as possible, but no later than the specified deadlines.
- You must meet all other eligibility requirements. Please contact the Financial Aid Office if you have any questions.

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

Sources of Financial Aid

Federal Perkins Loans

Perkins Loans are long-term, low-interest loans awarded to both undergraduate and graduate students who show exceptional financial need. You must repay these loans according to a schedule established by federal law. Typically, you begin repaying your loan nine months after graduation or after your enrollment drops below five credits. Table 8, below, shows estimated repayment schedules for Perkins Loans of various amounts.

<table>
<thead>
<tr>
<th>Loan Amount</th>
<th>Number of Payments</th>
<th>Monthly Payment</th>
<th>Total Interest</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>$4,000.00</td>
<td>120</td>
<td>$42.43</td>
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<tr>
<td>$8,000.00</td>
<td>120</td>
<td>$84.85</td>
<td>$2,182.29</td>
<td>$10,182.29</td>
</tr>
<tr>
<td>$15,000.00</td>
<td>120</td>
<td>$159.10</td>
<td>$4,091.79</td>
<td>$19,091.79</td>
</tr>
</tbody>
</table>

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

William D. Ford Federal Direct Loans

Unsubsidized Direct Loans are long-term loans available to graduate students. The interest rates on newly originated Direct Loans for 2014-2015 is 6.21%. To apply, complete the FAFSA, available at www.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 (http://financialaid.boisestate.edu/loancounseling.shtml) before you can receive the funds. Also, the Direct Loan commits you to participating in an exit interview when you graduate or withdraw from the university.

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: http://financialaid.boisestate.edu/loancounseling.

Table 9, 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.
The GEM Scholarship is a nonresident tuition waiver for new MBA Career Track students with a strong academic record who are not residents of the state of Idaho and who are enrolled full-time. Please review the Graduate College for a list of eligible majors (http://graduatecollege.boisestate.edu/fundinggraduateschool/gem-scholarship/).

Students do not need to submit an application as they are automatically considered for the waiver as part of the evaluation process during admission. For additional information, see the Graduate College website (http://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.

Graduate Scholars Award

The Graduate Scholars Award is a nonresident tuition waiver for the new MBA Career Track students with a strong academic record who are not residents of the state of Idaho and who are enrolled full-time. The award waives 50% of the non-resident tuition and fees. To be considered for the award, a student must:

- Have a permanent residence outside the State of Idaho (both international students and U.S. citizens are eligible).
- Have a GPA as an undergraduate of 3.00 or higher.
- Be accepted in the MBA Career Track Program.

For more information, see the Graduate College website: http://graduatecollege.boisestate.edu/fundinggraduateschool/graduate-scholars-award/.

Scholarships

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

Short-Term Loans

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

Financial Aid for the Summer Session

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

Financial Aid for International Students

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

**Disbursing Funds**

In March, the Financial Aid Office begins notifying scholarship recipients. Need-based aid, such as loans and work-study money, is awarded as it is processed. During fall semester, if your registration fees are paid and you have cleared your "to do" items on MyBoiseState, your remaining funds will be electronically deposited into your bank account or a check will be mailed to you prior to the week before the start of classes. During spring semester, you can pay your spring registration fees with previously awarded aid. The balance of your aid will be mailed to you or electronically deposited prior to the start of classes, if your registration fees are paid.

**Note:** All financial aid funds are distributed from the Account Maintenance Office, Administration Building, Room 101. Please direct questions about your balance funds to that office at (208) 426-2134.

**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, students receive no refund of tuition and fees if they withdraw from the university after the 10th day of classroom instruction. Federal financial aid regulations state that eligibility for aid be recalculated whenever a student withdraws from Boise State University, either officially or unofficially. The recalculation determines the amount of aid a student has “earned,” by prorating according to the percent of the term completed before withdrawing. For example, a student who withdraws after completing only 30 percent of the term will have “earned” only 30 percent of aid eligibility. A student who completes more than 60 percent of the term is considered to have “earned” 100 percent of his/her aid eligibility. Examples of these calculations can be found on the web at: http://financialaid.boisestate.edu/printable-forms-12-13/sapdocuments/. In addition, any student attending a shorter session (a “module”) may need to re-confirm future attendance in that term; otherwise, a withdrawal calculation will be done.

Once a student officially withdraws, the Financial Aid Office will determine if/what is owed and will provide notification of adjustments to financial aid funding. If you have questions about what will happen when you withdraw, review the information on the web at: http://financialaid.boisestate.edu/printable-forms-12-13/sapdocuments/. After reviewing that information, if you still have questions, contact the Financial Aid Office.

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

**Satisfactory Academic Progress**

Students applying for or receiving financial aid must make satisfactory academic progress at the university. 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 cumulative Boise State GPA consistent with University requirements.
- pass 75% of all credit hours attempted while enrolled as a graduate student at Boise State University.
- complete your degree requirements within the maximum time allowed.

Review the complete satisfactory progress policy at http://financialaid.boisestate.edu/printable-forms-12-13/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 web 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 filing an appeal, you must document any extenuating circumstances that prevented you from making satisfactory academic progress. Appeal forms may be downloaded from the web at http://financialaid.boisestate.edu/printable-forms-12-13/sapdocuments/.

**Staying Informed**

Official correspondence will be sent to your student e-mail account. Remember to check your BroncoMail at least weekly to determine if additional information is needed. To easily find financial aid updates, look at the Timely Tips at http://financialaid.boisestate.edu or click on the Financial Aid Recipients link on MyBoiseState. 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 Assistantships?**

If you have questions about assistantships, contact the Graduate College, Riverfront Hall, Room 307, (208) 426-3647

**Questions About Financial Aid?**

If you have questions about financial aid, contact the Financial Aid Office, Administration Building, Room 113, (208) 426-1664 or 800 824-7017 or by e-mail: faquest@boisestate.edu.
Housing and Residence Life

Housing and Residence Life offers a variety of living options, including 7 residence halls and 5 apartment complexes located on-campus or within walking distance from campus. This chapter describes the housing available at Boise State University, provides application and cost information, and describes the assistance Boise State University provides to students seeking off-campus housing.

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

Rules and Regulations
Rules and regulations governing university housing are defined generally in this chapter and more specifically in the Residence Hall & Dining Agreement, Apartment Lease, Student Code of Conduct, and online at http://housing.boisestate.edu.

Graduate Housing
Housing and Residence Life has identified specific communities that are 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.

Payette and Selway Suites are available to upper-division residential students and are specifically designed for single students. This complex features furnished suites, each of which include a living room, shared bathrooms, modern kitchen, dishwasher, washer/dryer and four single rooms. High-speed Internet, cable TV, and utilities are provided. All buildings are air-conditioned and have access to the community center lounge located in Clearwater Suites. Meal plans are optional and are not added unless requested.

Aspen, Cedar, Hawthorne, Juniper, Spruce, and Tamarack Townhouses are available to upper-division residential students and are specifically designed for single students. 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, cable TV, and utilities are included in the room cost. Meal plans are optional and are not added unless requested.

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. Card operated laundry facilities are located on-site. Tenants are responsible for the cost of electricity. Water, sewer, trash, and Internet are provided.

University Park consists of two and three bedroom apartments. Each unit has a wall-unit air conditioning/heating system, stove, and refrigerator. Card operated laundry facilities are located on-site. Tenants are responsible for the cost of electricity. Water, sewer, trash, and Internet are provided.

University Square consists of two bedroom apartments. Each unit has central air conditioning/heating, stove, refrigerator, dishwasher, and washer/dryer. Tenants are responsible for the cost of electricity and gas. Water, sewer, trash, basic cable TV, and Internet are provided.

University Village consists of two bedroom apartments. Each unit has central air conditioning/heating, stove, refrigerator, and dishwasher. Card operated laundry facilities are located on-site. Tenants are responsible for the cost of electricity and gas. Water, sewer, trash, and Internet are provided.

Application and Cost Information

University Suites and Townhouses Apply online at http://housing.boisestate.edu. In the application you will be directed to pay a $225 deposit and a $25 processing fee through the Touchnet System. The deposit must be paid before the application can be processed and a room can be assigned. New students wishing to cancel their application for housing must do so by June 30 in order to have their deposit refunded minus a $25 administrative fee. The 2014-2015 prices for housing in the residence halls, along with meal plan options, are available by checking http://housing.boisestate.edu or calling (208) 447-1001.

Apartments Apply online at http://housing.boisestate.edu. The application requires a non-refundable $25.00 processing fee which you will be directed to pay within the application through the Touchnet System. Once an apartment offer has been made and accepted, a $225.00 non-refundable reservation fee will need to be paid within 72 hours. The reservation fee will be converted to the security deposit at the lease signing. For more information, contact the Apartments Office at bsuapartments@boisestate.edu or (208) 447-1001.

Note: The application process to live in housing 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 had been accepted and approved.

Housing Preferences
Upon approval of an application for on-campus housing, Boise State University will assign students to designated graduate student spaces whenever possible based on the date of their deposit and availability of spaces at the time of assignment.

Questions About University Housing and Residence Life?
If you have questions about Housing and Residence Life contact the University Housing and Residence Life Office, Chaffee Hall, (208) 447-1001 or online at http://housing.boisestate.edu.
Student Services

Boise State University provides a variety of services, programs, and activities to help students obtain the maximum benefit from their university experience; most are free for currently enrolled students.

Academic Services

The Career Center provides career planning and employment services to all Boise State students. These services include career decision making and major exploration, employment assistance (resume and cover letter review, interview training, professional networking and job search advising), and coordination of the University’s internship program. The Career Center’s web-based career-guidance systems focus on students’ interests, skills, and values for making career choices. The Career Center sponsors annual events including annual career fairs, a Meet the Employers Professional Series, and the Job Search Boot Camp. Through BroncoJobs, students can access student employment, internship, and career-employment opportunities listed by businesses, government agencies, not-for-profit agencies, and school districts, as well as schedule on-campus interviews with participating employers. Further information is available at http://career.boisestate.edu or by calling (208) 426-1747.

English Language Support Services Free one-on-one ESL tutoring and course advice available for English language learners. Flexible hours are negotiable. Call 426-1189 for information. Additional ESL resources can be found at http://englishsupport.boisestate.edu/.

Study Skills Resource Center The Study Skills Resource Center, located in the Academic and Career Services building, room 102 provides students with a place to study and improve skills necessary for academic success.

Test Preparation Assisting students to prepare for graduate school is the focus of short courses on the Graduate Record Examination (GRE) and the Graduate Management Admission Test (GMAT) offered through the Center for Professional Development, in the Division of Extended Studies at Boise State University. For more information, call (208) 426-1709.

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

For location, testing hours, and appointments, call (208) 426-2762 or go to http://aae.boisestate.edu/testing/. You can also direct testing questions to TestingServices@boisestate.edu

Writing Center Open to the entire Boise State community, the Writing Center is a place where you can find support for any kind of writing at any stage of the writing process: brainstorming, revising, editing. You can schedule a consultation online at writingcenter.boisestate.edu, or stop by Liberal Arts, Room 200, or call (208) 426-1298.

Campus Recreation The mission of Campus Recreation is to enrich the University community by providing diverse recreational and leadership opportunities that foster personal growth and lifelong healthy habits. Campus Recreation offers a wide array of opportunities for informal, instructional, and competitive recreation programs. The 105,000 square foot Recreation Center serves as the hub for university students, faculty, staff, and alumni who want to participate in physical activity. Programs and services include personal training, competitive and recreational sports, club activities, group exercise, outdoor recreation, cardio and strength workout options. The Recreation Center is located at 1515 University Drive (located adjacent to the Student Union). For more information call (208) 426-1131, or go to rec.boisestate.edu.

Health Services

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

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 University.

Medical Services is 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 accessible 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 is 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. Comprehensive services are available to students, faculty, and staff.

Health Insurance and Billing provides insurance and billing support for Health Services. This support includes submitting claims to most insurance companies, educating our patients and the campus community about health insurance options, assisting with
billing questions, understanding billing language and terminology, providing guidance on how to be savvy consumers of health insurance and health care, and assisting with the management of the Student Health Insurance Plan (SHIP). In addition, we assist students with the waiver process and education about how to utilize all other insurance plans at Boise State University Health Services.

Insurance Coverage  Idaho State Board of Education mandate requires full-fee paying students attending classes in Idaho to maintain adequate health insurance. Boise State University students registered for full time full-fee paying credits are automatically enrolled in the university-sponsored Student Health Insurance Plan (SHIP), with the premium charge added to their tuition and fees billing. Students who provide proof of continuous enrollment in an alternative U.S.-based health insurance plan with comparable benefits are able to waive out of the SHIP coverage each semester. Students enrolled in SHIP are eligible to purchase coverage for their dependent children under the age of 26 for an additional charge.

All international students are automatically enrolled in the university sponsored SHIP, with the premium charge added to their tuition and fees billing.

Non full-fee paying students (classes are billed on a per credit basis, check class notes), but are full time need to contact the Health Insurance and Billing Office at healthinsurance@boisestate.edu or (208) 426-2158 by the 10th day of classes each semester to be enrolled in SHIP.

Part-time students are eligible to enroll in SHIP on a voluntarily basis. Information regarding coverage for part-time students is available by contacting the Health Insurance and Billing Office at healthinsurance@boisestate.edu or (208) 426-2158 by the 10th day of classes each semester to be enrolled in SHIP.

Self support online programs are not eligible for SHIP at this time.

Waiver Policy  Students who provide proof of continuous enrollment in an alternative U.S.-based health insurance plan with comparable benefits are able to waive out of their SHIP enrollment. Waivers must be filed for both the fall and spring semesters by the 10th day of class. Alternative coverage must meet all of the comparability requirements. These can be found at healthservices.boisestate.edu/insurance/SHIP/waiver/requirements. If your alternative health insurance plan meets these comparability requirements, please log on to your student account to submit your SHIP waiver request. Waiver requests must be completed and submitted online.

Enrollment Policy  Students who wish to be enrolled in SHIP need to meet the following eligibility requirements.

Mandatory  The following students are eligible and will be automatically enrolled in SHIP unless a waiver application is submitted by the waiver deadline date:

- full-fee paying domestic undergraduate students enrolled in at least 12 credits
- full-fee paying domestic graduate students enrolled in at least 9 credits

Voluntary Full-Time  In addition, full-time domestic students who are not full-fee paying may also enroll in SHIP at the prices below, including students on fee waivers. The health insurance fee will NOT automatically be added to their student account. These students must contact the Health Insurance and Billing Office on campus to enroll in the plan by the 10th day of classes each semester to be enrolled in SHIP. For more information, please contact the Health Insurance and Billing Office in the Norco Building at (208) 426-2158, healthinsurance@boisestate.edu, or in person at 1529 Belmont Street Room 111, Boise, ID 83706.

Voluntary Part-Time  The following students are eligible to enroll in SHIP on a voluntary basis:

- part-time domestic undergraduate students taking 9-11 credits
- part-time domestic graduate students taking 6-8 credits

Part-time students who would like to enroll in SHIP may enroll online with a MasterCard or Visa at www.renstudent.com/boisestate by the 10th day of classes each semester.

Note: All students may obtain medical and counseling services at Health Services. Students do not need to be enrolled in SHIP to receive services as we bill most insurance companies.

Health Services is located in the Norco Building at 1529 Belmont Street. Please call (208) 426-1459 for additional information or to schedule an appointment.

For more information on our services visit our website at healthservices.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 Women’s Center.

Children’s Center  The University Children’s Center provides care for children eight weeks—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. Financial assistance is available. For more information and rates, call (208) 426-4404 or visit http://childrencenter.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 University. The ODOS plays a significant role in supporting and empowering students and their families during difficult times by providing support and service to students who need clarification and advice regarding a wide range of student related issues or problems related to campus life, student services, individual concerns, and personal and family emergencies. Service is provided in an atmosphere of confidentiality and concern. Contact them for friendly, confidential assistance and referrals to other vital campus resources and services to help you meet your...
personal and academic goals. Located in the Norco Building, room 116, (208) 426-1527 or visit http://deanofstudents.boisestate.edu.

The Disability Resource 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 Disability Resource Center provides students, faculty, and staff with information about specific disabilities and accessibility at Boise State University. For further information, visit http://drc.boisestate.edu/ or call (208) 426-1583.

International Student Services (ISS) 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 university or 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. All of these efforts are an expression of our commitment to a philosophy of Inclusive Excellence at Boise State University. International Student Services is housed in the Student Diversity Center on the second floor of the Student Union Building, co-located with Multicultural Student Services. For more information please visit us on the web at mss.boisestate.edu or call International Student Services at (208) 426-3652.

Multicultural Student Services provides training, education and advocacy for students 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 non-dominant groups. Multicultural Student Services also provides a forum for education aimed at helping students learn multicultural skills and perspectives that they need for a successful experience at Boise State University and beyond. All of these efforts are an expression of our commitment to a philosophy of Inclusive Excellence at Boise State University. 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 mss.boisestate.edu or call us at (208) 426-5950.

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 students can meet 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 University'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 students learn multicultural skills and perspectives that they need for a successful experience at Boise State University and beyond. All of these efforts are an expression of our commitment to a philosophy of Inclusive Excellence at Boise State University.

Student Employment All registered students 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 students for this service. New jobs are posted daily. Further information is available at (208) 426-1747 or http://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 http://osrr.boisestate.edu.

Veteran Services The Veteran Services Office, located in the Lincoln Parking Garage, 1607 University Drive, (208) 426-3744, provides counseling assistance to all of Idaho's Armed Forces Veterans, National Guard members and Reservists, as well as dependents who qualify. Peer counselors assist Student Veterans and dependents with Veterans Administration educational benefits, and admission requirements. Tutorial and work-study programs for Veterans and dependents are also coordinated through the Veteran Services Office.

Women's Center The Boise State Women's Center empowers students to achieve their academic goals by providing educational outreach, support services and a safe place. Promoting active citizenship by focusing primarily on gender-related issues, the staff encourages dialogue about the social construction of gender and how gender intersects with race, ethnicity, class, sex, sexual orientation, ability, age and nationality. The center houses two lounges, one that is reservable for students and a LGBTQIA lounge with net stations as well as a lactation room for nursing moms. Educational events are created by student staff members who welcome ideas and opportunities for collaboration and the Healthy Relationship program offers workshops for any student organization, classroom or residence hall. No-cost advocacy for victims of sexual assault, relationship violence and stalking is also available. For a full list of programs and services visit the website at http://womenscenter.boisestate.edu or stop by the center, located on the second floor of the Student Union Building, (208) 426-4259.
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: BIOL 323 or PERM/INST.
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.

593 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 of the 580-589 group. Although the topics considered in the courses in any one area may vary from semester to semester, repeated use of any one number implies that the topics continue to be selected from the same area. 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.

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, and 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.
COLLEGE of ARTS and SCIENCES
College of Arts and Sciences

Dean: Tony Roark, Ph.D.
Education Building, Room 601, Mail Stop 1500
Phone: (208) 426-1414
Fax: (208) 426-3006

Associate Dean for Arts and Humanities:
Leslie Durham, Ph.D.
Phone: (208) 426-1414

Associate Dean for Mathematics and Sciences:
Clyde J. Northrup, Ph.D.
Phone: (208) 426-1414

General Information
As the university’s largest and most comprehensive academic unit, the College of Arts and Sciences enjoys a broad mission in teaching, research and creative activity, and service. In teaching, the College of Arts and Sciences offers a general curriculum that prepares students by developing their communication, numerical, and analytical skills; enhancing their creative abilities; fostering in them a greater awareness of human values and needs; and encouraging in them a lifelong appreciation of learning for its own sake.

Additionally, the College offers strong graduate programs for students of the arts, humanities, sciences, and interdisciplinary studies, and a full array of elective and service courses for students majoring in other subjects.

In research, the College generates and disseminates knowledge through basic and applied research, scholarship, and creative activity, thereby enhancing the scientific, technological, humanistic, and cultural environment of the state, the region, and the larger society.

In service, the College meets the educational, economic, and cultural needs of the state through research, publications, workshops, and a rich diversity of cultural and entertainment events.

Graduate Programs
The College of Arts and Sciences offers graduate programs leading to doctoral and master degrees and graduate certificates in the following fields:
- art education (master of arts; visual arts (master of fine arts)
- biology (master of arts and master of science)
- biomolecular sciences (doctor of philosophy)
- chemistry (master of science)
- creative writing (master of fine arts)
- earth science (master of earth science and master of science)
- mathematics (master of science)
- mathematics education (master of science)
- English: literature, rhetoric and composition, teaching English Language Arts (master of arts)
- geology (master of science); GIS (graduate certificate)
- geophysics (doctor of philosophy and master of science)
- geosciences (doctor of philosophy)
- interdisciplinary studies (master of arts and master of science)
- music education, performance (master of music)
- raptor biology (master of science)
- technical communication (master of arts, graduate certificate)

Activities
Departments and centers within the College of Arts and Sciences sponsor a variety of activities that complement and enhance the graduate curriculum. For instance, the English Department is the home of several publishing ventures, including Ahsahta Press (poetry by western poets and others), the Western Writers Series (booklets about the lives and works of Western authors), Poetry in Public Places (posters distributed throughout the Northwest), and the Idaho Review (a national literary journal published by the M.F.A. in Creative Writing program and featuring the work of the best writers in this country).

The biological sciences department is affiliated with the World Center for Birds of Prey, a research and breeding center for raptors, located near Boise. In addition, the biological sciences department is the home of the Raptor Research Center. Also, the biological sciences department is the home of the Biomolecular Research Center (BRC). The BRC emphasizes molecular studies and the techniques used to investigate medical issues.

CGISS, the Center for Geophysical Investigation of the Shallow Subsurface, a research center housed within the geosciences department, focuses on investigating engineering applications and environmental problems in the shallow subsurface of the earth. The geosciences are also affiliated with the Geospatial Research Facility (GRF), which is designed for students to learn geology and geographical information systems.
Department of Art

Chair: Lee Ann Turner
Liberal Arts Building, Room 252, Mail Stop 1510
Phone: (208) 426-1230
Fax: (208) 426-1243
E-mail: artdept@boisestate.edu
http://art.boisestate.edu

Graduate Degrees Offered

- Master of Arts in Art Education
- Master of Fine Arts, Visual Arts

General Information

Master of Fine Arts  The Department of Art offers a minimum two-year, full time Master of Fine Arts degree in Visual Arts. The program encourages innovative work in art metals, ceramics, drawing, installation, interdisciplinary studio, new genres, painting, photography, sculpture, social practice, etc. The degree requires 46 total credits distributed as follows: 9 credits in art history, 29 credits in studio, 2 credits in Graduate Seminar, 3 credits in Graduate Concourse, 3 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 thesis that supports the work, and an oral defense of both.

Master of Arts in Art Education  The 33 credit program leading to the Master of Arts in Art Education degree is designed to meet the needs of art educators working in schools, museums and other arts organizations or communities, and gives students the opportunity to gain the knowledge and skills necessary to become reflective and well-informed art educators. It does not lead to initial certification nor does it require certification for admission. Course work focuses on advanced curriculum development, an examination of contemporary issues relating to art and education, and advanced study of art history and studio practices. Students may select from two possible culminating experiences.

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 nine 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 on or before January 15.

Master of Arts in Art Education

Graduate Program Coordinator: Kathleen Keys
Public Affairs and Arts West Building, Room 116A, Mail Stop 1510
E-mail: KathleenKeys@boisestate.edu
http://art.boisestate.edu

Application and Admission Requirements

Admission Requirements  Fall or Spring admission. An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations in this catalog). Admission is competitive and the achievement of minimum requirements does not guarantee acceptance to the program. To be considered as a graduate student in the MA program, applicants must possess an earned baccalaureate or professional degree in a relevant program from an accredited college or university by the expected date of entry. Applicants must possess a minimum of 3.0 cumulative grade point average (GPA) based on a 4.0 scale in all previous undergraduate work and a minimum of 3.3 cumulative GPA based on a 4.0 scale in all previous relevant graduate work. Artistic proficiency within at least one studio area is required.

Application Procedures  A prospective student must follow the general graduate application procedure for degree-seeking students (see Graduate Admission Regulations in this catalog). Students must first be admitted to the Graduate College and have official transcripts from all institutions previously attended submitted to Graduate Admission and Degree Services, Boise State University, Boise, ID 83725-1110.

The prospective M.A. in Art Education student must also submit the following to the Department of Art by January 15 to be considered for Fall admission, or by October 1 to be considered for Spring admission (submission is via slideroom.com; see program website for instructions):

- A statement outlining your educational and professional background, your professional objectives, and philosophy of art or art education and why you are interested in the program.
- Three letters of recommendation from professionals in art education or related fields that address the applicant’s experience working in art and/or educational settings and potential contribution to the field of art education.
- A portfolio of at least 15 digital images of a recent body of work and an artist statement that addresses the work submitted.
- An example of academic or professional writing.
- Additional related work samples.
- Evidence of any public or private teaching experiences.
- Evidence of successful completion of basic K-12 art education methods courses; both K-8 and 6-12 or their equivalents. Deficiencies may be completed upon acceptance.
Degree Requirement

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 501 Contemporary Issues and Research in Art Education</td>
<td>3</td>
</tr>
<tr>
<td>ART 551 Curriculum Development and Assessment in Art Education</td>
<td>3</td>
</tr>
<tr>
<td>Education Graduate Core courses</td>
<td>6</td>
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<tr>
<td>ART 591 Project or ART 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>33</td>
</tr>
</tbody>
</table>

Master of Fine Arts, Visual Arts

Graduate Program Director: Chad Erpelding
Public Affairs and Arts West Building, Room 110A, Mail Stop 1510
Phone: (208) 426-4081
E-mail: chaderpelding@boisestate.edu

Application and Admission Requirements

Fall admission only. To be considered as a graduate student in the MFA program, applicants must possess a B.A., B.F.A., or a M.A. degree in Art from an accredited institution and have and maintain a minimum cumulative grade point average of 3.0. Applicants must also have completed a minimum of 12 credits of undergraduate art history prior to taking courses for graduate credit. Undergraduate coursework in modern and/or contemporary art history and art theory is highly desirable. Admission is competitive and the achievement of minimum requirements does not guarantee acceptance to the program.

Students must first be admitted to the Graduate College and have three letters of recommendation and official transcripts for all institutions previously attended submitted to Graduate Admission and Degree Services, Boise State University, Boise, ID 83725-1110. An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations) at least 4 weeks prior to January 15.

Applicants must also submit the following to the Art Department by January 15 (submission is via slideroom.com; see program website for instructions):

- A portfolio of 15 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 resume that includes educational background, exhibition record, awards, grants, reviews, and any other pertinent information
- Additional supporting statement if applying for a Graduate Assistantship

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 standing.

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/S). 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 575 GRADUATE SEMINAR (3-0-3)(F). Group meetings for the critical examination of works, practices, and issues within contemporary discourse and visual culture. PREREQ: Graduate standing.

ART 576 STUDIO PRACTICES (0-V-V)(F/S). Independent work in the studio under the guidance of the student’s graduate committee members. Periodic critiques of the work are conducted by the graduate committee and by the full graduate faculty. May be repeated for credit.

ART 577 GRADUATE CONCOURSE (3-0-3)(F/S). Through a variety of seminar meetings, critiques, studio and community-based activities, students will locate their art practices within the contexts of contemporary art and theory, articulate the strategies unique to their work and explore their roles as artists in society. May be repeated for credit.

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 (V-0-V)(F/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. PREREQ: PERM/INST.

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

Chair: Kevin Feris
Science Building, Room 107, Mail Stop 1515
Phone: (208) 426-5498
Fax: (208) 426-1040
http://biology.boisestate.edu/

Graduate Degrees Offered
- Doctor of Philosophy in Biomolecular Sciences
  (See Interdisciplinary Programs)
- Master of Arts in Biology
- Master of Science in Biology
- Master of Science in Raptor Biology

General Information
Professional biologists, teachers in public and private schools, and others can use these programs to increase their knowledge base and to advance professionally.

Application and Admission Requirements
For information about the Ph.D. in Biomolecular Sciences, and how to apply, please see the Interdisciplinary Programs section of the catalog.

Applications for masters biology programs are due January 15 for fall admission and October 1 for spring admission. Please visit http://biology.boisestate.edu/graduate-programs/ for instructions on how to apply. For information concerning the department, faculty, and potential projects, visit the department web site (http://biology.boisestate.edu/).

Individuals admitted to Regular Status as graduate students in biology or raptor biology typically have:
- an undergraduate GPA of at least 3.00 on a 4-point system;
- results that average in the 50th or higher percentile in the verbal, quantitative, and analytical writing portions of the GRE exam;
- an undergraduate degree in biology or a closely related field.

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

Initial evaluation of applicants will be undertaken by the Biological Sciences Department Graduate Studies Committee; final decisions on admission will depend on qualifications of the candidates and openings that exist within the Biology and Raptor Biology graduate programs.

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

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

Financial Aid
Teaching Assistantships that include a stipend, a tuition and fee waiver, and student health insurance may be available to M.S. 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 College Work Study Program, are available to graduate students. Prospective students should contact the Financial Aid Office and consult the Boise State University catalog.

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

M.S. students are expected to produce a written thesis proposal and give an oral presentation of that proposal during their first year and, following completion of the thesis, give an oral defense of the thesis, and an exit seminar to present the results to the public.

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

The M.A., Examination Option is a course work-based degree and is considered to be a terminal degree (except for students intending to attend professional school); students wishing to later pursue a Ph.D. should enroll in the M.S. program. The M.A. candidate will complete a wide range of relevant course work. At the end of course work, the candidate will be required to pass a comprehensive examination. The examination 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. All requirements for the degree and graduation must be completed within a period of seven years.
College of Arts and Sciences
Department of Biological Sciences

Master of Arts in Biology

Master of Science in Biology

Graduate Program Coordinator: Julie Heath
Science Building, Room 217A, Mail Stop 1515
Phone: (208) 426-3208
E-mail: DBSgraduate@boisestate.edu

Master of Arts in Biology, Examination Option

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIOL 598 Graduate Seminar or BIOL 561-567 &quot;Advanced Topics in&quot; 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:</td>
<td>28</td>
</tr>
<tr>
<td>Electives for the M.A. may include up to a combined total of 6 credits of workshop credits, practicum/internship credits, directed research credits. A 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></td>
</tr>
<tr>
<td>BIOL 601 Biometry</td>
<td>4</td>
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<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 &quot;Advanced Topics in&quot; courses</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Electives from course offerings that follow:</td>
<td>13</td>
</tr>
<tr>
<td>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></td>
</tr>
<tr>
<td>Total</td>
<td>33</td>
</tr>
</tbody>
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Master of Arts in Biology, Project Option

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 598 Graduate Seminar or BIOL 561-567 &quot;Advanced Topics in&quot; 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</td>
<td>6</td>
</tr>
<tr>
<td>Students will be expected to develop a written project proposal and give an oral review and discussion of their project upon completion.</td>
<td></td>
</tr>
<tr>
<td>Electives to be chosen in consultation with advisor and committee:</td>
<td>23</td>
</tr>
<tr>
<td>Electives for the M.A. may include up to a combined total of 6 credits of workshop credits, practicum/internship credits, directed research credits. A 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></td>
</tr>
<tr>
<td>BIOL 606 Raptor Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Electives from course offerings that follow:</td>
<td>18</td>
</tr>
<tr>
<td>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></td>
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<tr>
<td>Total</td>
<td>33</td>
</tr>
</tbody>
</table>

Master of Science in Biology

<table>
<thead>
<tr>
<th>Course Number and Title</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 &quot;Advanced Topics in&quot; courses</td>
<td>2</td>
</tr>
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<tr>
<td>BIOL 500 ORGANIC EVOLUTION (3-0-3)(S)</td>
<td></td>
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<tr>
<td>Philosophical basis of evolutionary theory; Detailed examination of genetic variation, mechanisms of evolutionary change, adaptation, speciation, and phylogeny; Genetics recommended. PREREQ: BIOL 323 and BIOL 343 or PERM/INST.</td>
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</tr>
<tr>
<td>BIOL 509 MOLECULAR ECOLOGY (3-0-3)(F)(Odd years)</td>
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<tr>
<td>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: BIOL 323 and BIOL 343 or PERM/INST.</td>
<td></td>
</tr>
<tr>
<td>BIOL 510 PATHOGENIC BACTERIOLOGY (2-6-4)(S)</td>
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<tr>
<td>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 301 and BIOL 303.</td>
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<tr>
<td>BIOL 512 GENERAL PARASITOLOGY (2-3-3)(intermittently)</td>
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<tr>
<td>Study of animal parasites with emphasis on those of man and his domestic animals. Lectures cover general biology, life history, structure, function, distribution, and significance of parasites. Laboratory provides experience in identification and detection. PREREQ: BIOL 301 or PERM/INST.</td>
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</tr>
<tr>
<td>BIOL 513 SYMBIOSIS (3-0-3)(S)(Odd Years)</td>
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<tr>
<td>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.</td>
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</tr>
<tr>
<td>BIOL 514 (BMOL 514) FLOW CYTOMETRY RESEARCH TECHNIQUES (0-3-1) (F/S/SU)</td>
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<tr>
<td>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.</td>
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</tbody>
</table>

Master of Science in Raptor Biology

Graduate Program Coordinator: Julie Heath
Science Building, Room 217A, Mail Stop 1515
Phone: (208) 426-3208
E-mail: DBSgraduate@boisestate.edu

Master of Science in Raptor Biology

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<tr>
<td>BIOL 601 Biometry</td>
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<td>2</td>
</tr>
<tr>
<td>BIOL 606 Raptor Ecology</td>
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</tr>
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<td></td>
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<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

Course Offerings

See Course Numbering and Terminology for definitions.
Additional work will be required to receive graduate credit for undergraduate G courses.

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 343 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: BIOL 323 and BIOL 343 or PERM/INST.

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: BIOL 323 and BIOL 343 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 301 and BIOL 303.

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 301 or PERM/INST.

BIOL 513 SYMBIOSIS (3-0-3)(S)(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 301 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 520 IMMUNOLOGY (3-0-3)(S).** Principles of immunology: host defense mechanisms, the immune response, immune disorders, serology, and related topics. PREREQ: BIOL 301.

**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)(S)(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: BIOL 323.

**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: BIOL 323, BIOL 601, or PERM/INST.

**BIOL 526 INSECT ECOLOGY (3-0-3)(S)(Even years).** An in-depth exploration of insect ecology, evolution and behavior. Topics include life history evolution, insect-plant interactions, predation and parasitism, reproduction, insect societies, chemical ecology, biodiversity and pest management. PREREQ: BIOL 323 or PERM/INST.

**BIOL 527 STREAM ECOLOGY (3-3-4)(F/S).** The biology and ecology of flowing waters is emphasized; their biota, management, and ecology at both the community and ecosystem level will be discussed. PREREQ: BIOL 323 or PERM/INST.

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

**BIOL 533 BEHAVIORAL ECOLOGY (3-0-3)(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: BIOL 323 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: BIOL 323 or PERM/INST.

**BIOL 540 GENERAL AND MOLECULAR TOXICOLOGY (3-0-3)(F).** General and molecular principles of mammalian toxicology including toxicant disposition, mechanisms of toxicity, target organ toxicity, and major classes of toxic agents. PREREQ: BIOL 301 or PERM/INST.

**BIOL 541 MOLECULAR BIOLOGY OF CANCER (3-0-3)(S).** A treatment of the basic biology of cancer and the process of tumor progression. Topics examined will include oncogenes, tumor suppressor genes, and the causes of cancer. PREREQ: BIOL 301, BIOL 343.

**BIOL 542 MOLECULAR NEUROBIOLOGY (3-0-3)(F).** Emphasis will be on the molecular aspects of neurobiology. Topics will include: cells of the nervous system, neurochemical transmission, nerve terminals, membrane structure and function, electrical signaling, neural development, process outgrowth and myelination and glia, and specific neural diseases including Alzheimer’s disease, Parkinson’s disease, and Lou Gehrig’s disease. PREREQ: BIOL 301 and PHYS 112, or PERM/INST.

**BIOL 543 ADVANCED DEVELOPMENTAL BIOLOGY (1-6-2)(F)(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 301 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 343 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 343 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 343.

**BIOL 548 PERL FOR BIOINFORMATICS APPLICATIONS (3-0-3)(F).** 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).** 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 343 and MATH 254, or PERM/INST.

**BIOL 551 DEVELOPMENTAL BIOLOGY (2-6-4)(F)(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/S).** An exploration of the current primary literature of aquatic biology. Topics vary, and may include community dynamics of algae, fish, zooplankton, and benthic invertebrates; tropic relationships; stream and reservoir management; primary and secondary production; organic matter and nutrient dynamics; and wetland ecology. May be repeated once for credit. PREREQ: BIOL 323 and PERM/INST.

**BIOL 562 ADVANCED TOPICS IN ANIMAL BEHAVIOR (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, genetics, and patent, drug target development. May be repeated once for credit. PREREQ: BIOL 343 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.
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 665 or BIOL 565 recommended. May be repeated once for credit. PREREQ: BIOL 343 and PERM/INST.

BIOL 567 ADVANCED TOPICS IN EXTRACELLULAR MATRIX IN DEVELOPMENT AND DISEASE (1-0-1)(F). Review, presentation and discussion of current literature. Students present original research in context of recent 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). 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 343.

BIOL 577 (ME 577)(ME 577) BIOMATERIALS (3-0-3)(F). 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 ENGR 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/Fail.)

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. PREREQ: MATH 147, or PERM/INST.

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: BIOL 323 or equivalent, 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 TEACHING ASSISTANT SKILLS AND ISSUES (2-0-2)(F). Discussion of learning styles, testing strategies, disability issues, and other topics relevant to being a teaching assistant for undergraduate biology laboratories. (Pass/ Fail.) PREREQ: PERM/INST.

BIOL 605 APPLIED RAFTOR BIOLOGY (0-3-2)(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: BIOL 323, or PERM/INST.

BIOL 611 (BMOL 611) 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 301 or PERM/INST.

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 623 ADVANCED IMMUNOLOGY (1-0-1)(S). Advanced study of the cellular and molecular regulation of the immune response. The course will include formal lectures, student presentations, and in-depth discussion of selected topics using the current literature. PREREQ: BIOL 520 or PERM/INST.

BIOL 628 GEOGRAPHIC INFORMATION SYSTEMS IN BIOLOGY (3-0-3)(S). Discussion of the use of Geographic Information Systems to apply spatial data to ecological problems. Analysis of the ways that spatial relations affect patterns, processes, and decision making at multiple scales. Specific topics covered include GAP analysis, habitat modeling, spatially-explicit population modeling, landscape ecology, home range analysis, interpretation of satellite imagery, and natural resource issues. PREREQ: Graduate standing or PERM/INST.

BIOL 629 MODERN METHODS IN ECOLOGY AND BEHAVIOR (2-3-3)(S)(Odd years). 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 will draft, critique, and refine 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)(Odd years). A study of the structure and development of vascular plant tissues, regions, and organs. Emphasis will be placed on the Angiosperms. Laboratory work includes preparation of hand and paraffin sections, staining, and observation of plant tissues using various types of light microscopy. PREREQ: BIOL 191-192.

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 301.

BOT 524 PLANT COMMUNITY ECOLOGY (3-6-5)(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: BIOL 323 and 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 301 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 301.

ZOOG — Zoology

ZOOG 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.

ZOOG 305G ENTOMOLOGY (2-3-3)(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.

ZOOG 314G ORNITHOLOGY (2-3-3)(S)(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 PERM/INST.

ZOOG 500 VERTEBRATE HISTOLOGY (2-6-4)(S)(Even years). Microscopic anatomy of cells, tissues, and organ systems of vertebrates. Major emphasis will be on mammalian systems. PREREQ: BIOL 301 or ZOOG 301.

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

ZOOG 503 (KINES 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 ZOOG credit but not both. PREREQ: BIOL 191-192 or BIOL 227-228 or PERM/INST.

ZOOG 509 GENERAL AND COMPARATIVE PHYSIOLOGY (3-3-4)(S). Physiological principles common to all forms of animal life are discussed. Physiological adaptations required to live in a variety of environments are presented. PREREQ: BIOL 301 and BIOL 323.


ZOOG 534 ANIMAL BEHAVIOR (3-3-4)(F)(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: BIOL 323 or PERM/INST.

ZOOG 615 AVIAN PHYSIOLOGY (3-0-3)(F)(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.

ZOOG 635 BEHAVIORAL ENDOCRINOLOGY (3-0-3)(F)(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.

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

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

Department of Chemistry and Biochemistry

Chair: Brad Bammel
Science Building, Room 153-154, Mail Stop 1520
Phone: (208) 426-2067
Fax: (208) 426-1311 or (208) 426-3027
E-mail: chemistry@boisestate.edu
http://chemistry.boisestate.edu

Graduate Degrees Offered
- Doctor of Philosophy in Biomolecular Sciences (See Interdisciplinary Programs)
- Master of Science in Chemistry
- Master of Science in Hydrologic Sciences (See Interdisciplinary Programs)

Master of Science in Chemistry
Graduate Program Director: Ken Cornell
Science Building, Room 153-154, Mail Stop 1520
Phone: (208) 426-5429
E-mail: kencornell@boisestate.edu

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 Ph.D. in Chemistry (or another physical science) or for advancement in their current career.

Application and Admission Requirements
An applicant must follow the general application procedures for admission to a graduate program (see Graduate Admission Regulations). The general online application will require applicants to provide program specific information:

- A letter of application describing his/her background, academic interests, career goals and how our program will help them achieve these goals.
- Two letters of recommendation from academic faculty or recent employers submitted directly to the graduate program coordinator.
- GRE General Test scores.
- TOEFL scores, for a prospective student whose native language is not English. These individuals may be interviewed if applying for a graduate teaching assistantship.

Once the file for an applicant is complete, it will be evaluated by the Chemistry Graduate Committee and an admission recommendation (regular, provisional, or denial) will be forwarded to the Dean of the Graduate College who will make the final admission decision and notify the applicant.

Conditions for Admission The conditions for admission are the minimum admission requirements of the Graduate College (see the Graduate Admission Regulations section of this catalog) where the required baccalaureate degree must be in chemistry, biochemistry or a closely related field involving substantial course work in chemistry. These conditions are necessary for admission to the program but do not guarantee admission.
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>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 500 Research Methods in Chemistry and 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>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>CHEM 688 Thesis Proposal</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 593 Thesis</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

Course Offerings

See Course Numbering and Terminology for definitions.

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 322 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 500 or PERM/INST.

BIOCHEM 514 ADVANCED ANALYTICAL CHEMISTRY (3-0-3)(S)(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.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Application and Admission Requirements
To be considered for regular status as a graduate student in the Department of English M.F.A. in Creative Writing, an applicant must meet general Graduate College requirements (which includes requesting that official transcripts from all institutions previously attended be sent to Graduate Admission and Degree Services, MS-1110, Boise State University, Boise, Idaho 83725) and the following department requirements:

1. A writing sample consisting of thirty manuscript pages of fiction or nonfiction or fifteen poems, sent directly to the Director of Creative Writing.
2. A Bachelor of Arts or Bachelor of Science degree.
3. Three letters of recommendation from people who know the applicant’s academic work, sent directly to the Director of Creative Writing.
4. A GPA of at least 3.0 for the last sixty semester credit hours of undergraduate work.
5. Applicants who do not satisfy one or more of these requirements by the time they wish to begin classes may be admitted with provisional status. They will be advised as to what steps they need to take to qualify for regular status. For more in-depth information, please visit our web site.

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

### Master of Fine Arts in Creative Writing

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Workshops</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 522 Poetry Writing Workshop (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ENGL 523 Fiction Writing Workshop (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ENGL 524 Creative Nonfiction Writing Workshop (3 cr)</td>
<td></td>
</tr>
<tr>
<td>Students are admitted into the program in one genre of concentration. Four workshops must be taken in this declared genre.</td>
<td></td>
</tr>
<tr>
<td><strong>MFA Courses</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 502 Teaching Creative Nonfiction, Poetry, and Fiction Writing (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ENGL 507 Small Press Production (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ENGL 508 Writing, Editing, and Designing for Professional Advancement (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ENGL 509 Book Arts (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ENGL 532 Form and Theory of Poetry (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ENGL 533 Form and Theory of Fiction (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ENGL 534 Form and Theory of Creative Nonfiction Writing (3 cr)</td>
<td></td>
</tr>
<tr>
<td>ENGL 590 Practicum/Internship (credits vary)</td>
<td></td>
</tr>
<tr>
<td>Students must take at least three courses; additional courses may be applied towards English Department Electives.</td>
<td></td>
</tr>
<tr>
<td><strong>English Department Electives</strong></td>
<td></td>
</tr>
<tr>
<td>Students must choose 500 level courses from at least two of the following areas:</td>
<td></td>
</tr>
<tr>
<td>Composition/Rhetoric, Creative Writing, Linguistics, Literature, Technical Communication, or Internship. One 400-level G writing course allowed. ENGL 598 required for Teaching Assistants.</td>
<td></td>
</tr>
</tbody>
</table>

Master of Fine Arts in Creative Writing (continued)

<table>
<thead>
<tr>
<th>Electives</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate courses, any discipline.</td>
<td></td>
</tr>
<tr>
<td>May include 400-level G courses.</td>
<td></td>
</tr>
<tr>
<td>ENGL 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>48</td>
</tr>
</tbody>
</table>

Master of Arts in English
Director M.A. in English: Tom Hillard
Liberal Arts Building, Room 233, Mail Stop 1525
Phone: (208) 426-2991
E-mail: thomashillard@boisestate.edu
http://english.boisestate.edu/ma/

General Information
The M.A. 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, publishing, 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 M.A. 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.

The Department of English offers Graduate Assistantships in Teaching and in the Writing Center. These assistantships offer a waiver of tuition and fees, including out-of-state tuition, and in addition carry a stipend of over $10,400. 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 M.A. in English program by that date. Applicants should plan to apply to the program, have all undergraduate transcripts sent, arrange for letters of recommendation, and take the Graduate Record Examination well before this deadline. A list of program requirements is below. Information on assistantship...
applications can be obtained from the website or by e-mailing the director of the program.

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

Application and Admission Requirements

To be considered for regular status as a graduate student in the Department of English, an applicant must meet general Graduate College requirements (which include requesting that official transcripts from all institutions previously attended be sent to Graduate Admission and Degree Services, MS-1110, Boise State University, Boise, Idaho 83725) and the following department requirements:

1. A Bachelor of Arts in English. In lieu of this, an applicant must demonstrate a strong background in the field to be considered for admission into the program.

2. A GPA of at least 3.0 for the last sixty semester credit hours of undergraduate work.

3. Scores for the Graduate Record Examination (GRE), sent to Graduate Admission and Degree Services.

4. An essay of 500-700 words explaining the applicant's goals in pursuing graduate study in English.

5. A writing sample of 8 to 10 pages, preferably academic writing completed within the past two years. For students who completed their undergraduate work more than one year before their application, professional writing of similar length, such as a grant proposal, a newsletter, or a business report, may be submitted to fulfill this requirement. The applicant's writing sample, in all cases, should be accompanied by a brief statement of the context for which the writing was done.

6. Three letters of recommendation from people who know the applicant's academic work.

Master of Arts in English, Literature

Director M.A. in English: Tom Hillard
Liberal Arts Building, Room 233, Mail Stop 1525
Phone: (208) 426-2991
E-mail: thomashillard@boisestate.edu
http://english.boisestate.edu/ma/

Degree Requirements

<table>
<thead>
<tr>
<th>Master of Arts in English, Literature</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
</tr>
<tr>
<td>--------------------------------------</td>
</tr>
<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>
</tr>
<tr>
<td>Core Requirements</td>
</tr>
<tr>
<td>ENGL 500 Research Methods in Literary Studies</td>
</tr>
<tr>
<td>ENGL 510 Seminar in Major American or English Writer</td>
</tr>
<tr>
<td>*ENGL 530 Studies in a Literary Period</td>
</tr>
<tr>
<td>ENGL 588 Survey of Critical Theory</td>
</tr>
<tr>
<td>*Candidates must take at least two period courses. One of these must be in literature up to 1800, and the other in literature after 1800.</td>
</tr>
<tr>
<td>Electives</td>
</tr>
<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>
</tr>
<tr>
<td>Thesis, Portfolio, or Project Option</td>
</tr>
<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>
</tr>
<tr>
<td>Course work Option</td>
</tr>
<tr>
<td>Students take six additional hours of electives as described above, for a total of 21 hours of electives.</td>
</tr>
<tr>
<td>Additional information</td>
</tr>
<tr>
<td>No credits taken outside the English Department may be applied toward graduation requirements. Only three (3) credits of Thesis, Portfolio, or Project may be applied toward graduation requirements. No more than six credits earned in pass/fail or workshop courses may be applied toward a graduate degree (see Graduate Catalog under “Academic Policies, Credit Limits for Pass/Fail Courses, Workshops, and Directed Research”).</td>
</tr>
</tbody>
</table>
Master of Arts in English, Rhetoric and Composition
Director M.A. in English: Tom Hillard
Liberal Arts Building, Room 233, Mail Stop 1525
Phone: (208) 426-2991
E-mail: thomashillard@boisestate.edu
http://english.boisestate.edu/ma/

Degree Requirements

<table>
<thead>
<tr>
<th>Master of Arts in English, Rhetoric and Composition</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>ENGL 554 Introduction to Research Methods in Rhetoric and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 561 Theories of Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 562 Theories of Rhetoric</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rhetoric and Composition Electives</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses to be selected from the following:</td>
<td></td>
</tr>
<tr>
<td>ENGL 503 Writing Center Pedagogy and Administration</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 563 The Theory and Teaching of Basic Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 564 Issues in Second-Language Writing</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 567 Grammar and the Teaching of Writing: Theory and Practice</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 568 The Essay Tradition</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 583 Selected Topics in Rhetoric and Composition</td>
<td>3 cr</td>
</tr>
<tr>
<td>ENGL 590 Practicum/Internship</td>
<td>(1-3 cr)</td>
</tr>
<tr>
<td>ENGL 598 Seminar (Teaching Assistants)</td>
<td>(3 cr)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>English Electives</th>
<th>12</th>
</tr>
</thead>
<tbody>
<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 six credits of ENGL 400G courses and a maximum of three credits of independent work in ENGL 595, ENGL 596, and ENGL 696.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Culminating Activity</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 591 Project or ENGL 592 Portfolio or ENGL 593 Thesis</td>
<td></td>
</tr>
</tbody>
</table>

| Total | 33 |

Master of Arts in Teaching English Language Arts
Director of Teaching English Language Arts: Bruce Robbins
Liberal Arts Building Room 211F, Mail Stop 1525
Phone: (208) 426-3036
E-mail: brobbins@boisestate.edu
http://english.boisestate.edu/englishteaching/

General Information

The Master of Arts in Teaching English Language Arts is designed to enhance the professional knowledge and teaching skills of practicing teachers from elementary through high school who are interested in supporting their students' achievement in literacy. The broad-based program may combine work from several university resources, including courses in English, Literacy Education, and the Boise State Writing Project. The program works within the teacher's current instructional context to connect research and theory in literacy learning with effective classroom teaching practices.

The three major strands (writing/composing, reading/literature, language) in the program requirements reflect the three areas of concentration required by the national standards for English language arts teachers including the National Council of Teachers of English (NCTE) and National Council for Accreditation of Teacher Education (NCATE), and required by the National Professional Board of Teaching Standards (NPBTS).

Application and Admission Requirements

An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations).
In addition, admission to this program requires the following:

- At least two years of teaching experience.
- Two letters of recommendation from people who can describe your academic ability and your experience with and commitment to effective teaching.
- A statement of 500-1000 words describing your professional goals and the ways in which the program can help you achieve them.

Degree Requirements

<table>
<thead>
<tr>
<th>Master of Arts in Teaching English Language Arts</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing/Composing</td>
<td>6-9</td>
</tr>
<tr>
<td>Courses to be selected from the following:</td>
<td></td>
</tr>
<tr>
<td>ED-LTCY 545 Writing Processes, Instruction, and Assessment: K-8</td>
<td>(3 cr)</td>
</tr>
<tr>
<td>ENGL 501 The Teaching of Writing</td>
<td>(3 cr)</td>
</tr>
<tr>
<td>ENGL 502 Teaching Creative Nonfiction, Poetry and Fiction Writing</td>
<td>(3 cr)</td>
</tr>
<tr>
<td>ENGL 561 Theories of Composition</td>
<td>(3 cr)</td>
</tr>
<tr>
<td>ENGL 562 Theories of Rhetoric</td>
<td>(3 cr)</td>
</tr>
<tr>
<td>ENGL 563 Teaching Basic Writing</td>
<td>(3 cr)</td>
</tr>
<tr>
<td>ENGL 579 Boise State Writing Project Invitational Institute</td>
<td>(6 cr)</td>
</tr>
<tr>
<td>ENGL 582 Selected Topics in Teaching English Language Arts (when topic concerns writing instruction)</td>
<td>(3 cr)</td>
</tr>
<tr>
<td>ENGL 583 Topics in Rhetoric and Composition</td>
<td>(3 cr)</td>
</tr>
<tr>
<td>ENGL 594 Workshop (concerning writing instruction)* (credits vary)</td>
<td></td>
</tr>
</tbody>
</table>

continued
<table>
<thead>
<tr>
<th>Master of Arts in Teaching English Language Arts (continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reading/Literature</strong></td>
</tr>
<tr>
<td>Courses to be selected from the following:</td>
</tr>
<tr>
<td>ED-LTCY 541 Assessment and Instruction: Reading</td>
</tr>
<tr>
<td>Difficulties K-12 (3 cr)</td>
</tr>
<tr>
<td>ED-LTCY 546 Advanced Children’s Literature (3 cr)</td>
</tr>
<tr>
<td>ED-LTCY 547 Advanced Young Adult Literature (3 cr)</td>
</tr>
<tr>
<td>ENGL 581 Literature for use in Junior and Senior High</td>
</tr>
<tr>
<td>Schools (3 cr)</td>
</tr>
<tr>
<td>ENGL 582 Selected Topics in Teaching English Language</td>
</tr>
<tr>
<td>Arts (when topics reading/literature instruction) (3 cr)</td>
</tr>
<tr>
<td>ENGL 594 Workshop (concerning reading/literature</td>
</tr>
<tr>
<td>instruction)* (credits vary)</td>
</tr>
<tr>
<td><strong>Language Study/Linguistics</strong></td>
</tr>
<tr>
<td>Courses to be selected from the following:</td>
</tr>
<tr>
<td>ED-LTCY 548 Psycholinguistics and Literacy (3 cr)</td>
</tr>
<tr>
<td>ENGL 505 Linguistics (3 cr)</td>
</tr>
<tr>
<td>ENGL 567 Grammar and the Teaching of Writing: Theory</td>
</tr>
<tr>
<td>and Practice (3 cr)</td>
</tr>
<tr>
<td>ENGL 582 Selected Topics in Teaching English Language</td>
</tr>
<tr>
<td>Arts (when topic concerns language/grammar instruction)</td>
</tr>
<tr>
<td>(3 cr)</td>
</tr>
<tr>
<td>ENGL 583 Topics in Rhetoric and Composition (when the</td>
</tr>
<tr>
<td>topic concerns second-language writing or the teaching</td>
</tr>
<tr>
<td>of grammar) (3 cr)</td>
</tr>
<tr>
<td>ENGL 585 Selected Topics in Linguistics (3 cr)</td>
</tr>
<tr>
<td>ENGL 594 Workshop (concerning language instruction)*</td>
</tr>
<tr>
<td>(credits vary)</td>
</tr>
<tr>
<td>LING 407G Applied Linguistics in Teaching English as a</td>
</tr>
<tr>
<td>Second Language (3 cr)</td>
</tr>
<tr>
<td><strong>Research</strong></td>
</tr>
<tr>
<td>Courses to be selected from the following:</td>
</tr>
<tr>
<td>ED-LTCY 557 Research Base for Contemporary Literacy</td>
</tr>
<tr>
<td>Curricula (3 cr)</td>
</tr>
<tr>
<td>ENGL 500 Research Methods in Literary Studies (3 cr)</td>
</tr>
<tr>
<td>ENGL 554 Introduction to Research Methods in Rhetoric</td>
</tr>
<tr>
<td>and Composition (3 cr)</td>
</tr>
<tr>
<td>ENGL 577, 578 Teacher Research in Literary I and II</td>
</tr>
<tr>
<td>(3 cr)</td>
</tr>
<tr>
<td>ENGL 582 Selected Topics in Teaching English Language</td>
</tr>
<tr>
<td>Arts (when topic concerns teacher research methods)</td>
</tr>
<tr>
<td>(3 cr)</td>
</tr>
<tr>
<td>**Electives to bring total graduate-level courses to 30</td>
</tr>
<tr>
<td>credits. Use courses from English, Literacy, or other</td>
</tr>
<tr>
<td>approved courses.*</td>
</tr>
<tr>
<td><strong>Culminating Activity</strong></td>
</tr>
<tr>
<td>ENGL 592 Portfolio</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

*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: Mike Markel
Liberal Arts Building, Room 234, Mail Stop 1525
Phone: (208) 426-3088 or 426-1246
E-mail: mmarkel@boisestate.edu
http://english.boisestate.edu/techcomm/

General Information

Technical communication is a humanistic discipline in which people create, shape, and communicate technical information so that other people can use it safely, effectively, and efficiently. Although most of the courses in the program involve high-technology tools, the core of technical communication is clear written and oral communication. Fundamental in our approach to technical communication is ethics: the writer’s understanding that the people who read and use the information must be treated with dignity, as ends rather than merely means. Also fundamental is the writer’s awareness that technical communication can affect various constituencies—from co-workers to customers to the general public—and even the environment itself.

Against this backdrop of clear, ethical communication, our students learn the theory of technical communication, drawing on such disciplines as reading and writing theory, linguistics, cognitive psychology, sociology, and gender studies. Then students progress through courses in writing, editing, and ethics. A course in visual rhetoric and information design prepares students for subsequent courses in print and on-screen production. Finally, students take a course in oral communication skills, for technical communicators speak and listen far more than they write. Students also complete a 3-credit internship. In addition, there are a number of elective courses.

Students follow one of two tracks, the first of which culminates in a project or thesis, the second of which culminates in a portfolio.

Application and Admission Requirements

You are encouraged to apply if you possess a bachelor’s degree with a 3.0 GPA. The full application package will also include official undergraduate transcripts, a resume, three letters of reference from employers or professors, and a 1,000-word statement describing your professional goals and the ways in which the program can help you achieve them. Visit our Web site or see the Director of Technical Communication for more information on how to apply.

Degree Requirements

The course of study for the Master of Arts in Technical Communication consists of a minimum of 33 hours to be chosen by you and your advisory committee from one of the two tracks described below. Each track consists of required courses and electives. To fulfill the elective requirements, you may take additional graduate courses in technical communication or another discipline; however, you may apply to the degree no more than 3 credits in subjects other than technical communication. (Note: You may not count ENGL 405G or ENGL 415G toward your degree requirements.)
Master of Arts in Technical Communication

**Alternative Program 1**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>An introductory seminar (Introductory Seminar in Technical Communication), 21 hours of mandatory courses in technical communication, three hours of project or thesis, and three hours of internship. (If you already have professional work experience in technical communication, your advisor may permit you to substitute three additional elective credits for the internship.)</td>
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<tr>
<td>ENGL 511 Introductory Seminar in Technical Communication</td>
<td>3</td>
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<tr>
<td>ENGL 512 Technical Rhetoric and Applications</td>
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<td>ENGL 513 Technical Editing</td>
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<td>ENGL 514 Technical Communication Ethics</td>
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<tr>
<td>ENGL 515 Visual Rhetoric and Information Design</td>
<td>3</td>
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<tr>
<td>ENGL 516 Topics in Print Document Production</td>
<td>3</td>
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<tr>
<td>ENGL 517 Topics in On-screen Document Production</td>
<td>3</td>
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<tr>
<td>ENGL 590 Practicum/Internship</td>
<td>3</td>
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<tr>
<td>ENGL 591 Project or ENGL 593 Thesis</td>
<td>3</td>
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<tr>
<td>Electives (no more than 3 credits from outside technical communication)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
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You may petition your committee to be exempted from up to six hours of required course work. This petition will be evaluated on the basis of your demonstrated experience and professional competence. If you receive an exemption, you will substitute an equivalent number of elective credits. (Note that you will still be permitted to apply to your degree no more than 3 credits from outside technical communication.)

**Graduate Certificate in Technical Communication**

Director of Technical Communication: Mike Markel
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**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.

**Application and Admission Requirements**

The minimum requirement for admission to the certificate program is a baccalaureate degree from a regionally accredited college or university and admission to the Graduate College. In addition, applicants must submit to the Director of Technical Communication, a resume, and a 500-word statement explaining how the Graduate Certificate relates to their broader educational goals.

**Application Procedures**

An applicant to the certificate program should follow the general application procedures for admission to a graduate program (see Graduate Admission Regulations). Once the applicant’s file is complete, it will be reviewed by the Director of Technical Communication, who will provide an admission recommendation to the Dean of the Graduate College. The Dean will make the final admission decision and notify the applicant.

**Certificate Requirements**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
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<tr>
<td><strong>Graduate Certificate in Technical Communication</strong></td>
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<tr>
<td><strong>Required Courses</strong></td>
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<tr>
<td>ENGL 512 Technical Rhetoric and Applications</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 513 Technical Editing</td>
<td>3</td>
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<tr>
<td>ENGL 514 Technical Communication Ethics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
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See the course descriptions for prerequisites. Selected prerequisites may be waived or taken concurrently with the consent of your committee.
Graduate Certificate in Technical Communication continued

Elective Courses
Select two of the following:
- EDTECH 511 Interactive Courseware Development (3 cr)
- ENGL 511 Introductory Seminar in Technical Communication (3 cr)
- ENGL 515 Visual Rhetoric and Information Design (3 cr)
- ENGL 516 Topics in Print Document Production (3 cr)
- ENGL 517 Oral Communication for Technical Communicators (3 cr)
- ENGL 518 Writing Software Documentation (3 cr)
- ENGL 519 Technical Publications Management (3 cr)
- ENGL 521 Topics in On-screen Document Production (3 cr)
- OPWL 537 Instructional Design (4 cr)

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
See Course Numbering and Terminology for definitions.

ENGL --- English

ENGL 401G ADVANCED NONFICTION WRITING (3-0-3)(F/S). Advanced practice in nonfiction genres, and study of how writers read and learn from other writers. Experimentation with subjects, voice, organization, and style. Students may take the course twice, for a total of 6 credits. Students seeking graduate credit will produce a greater quantity and high quality of original work, will have a separate and more extensive reading list, and will be expected to participate more fully in class activities. PREREQ: ENGL 201.

ENGL 405G PRINT DOCUMENT PRODUCTION (3-0-3)(F/S). An advanced study and application of the principles of producing effective technical documents. Topics include the relationship between layout and readability, techniques for combining textual and non textual information, and the use of desktop publishing and graphics software. Students will produce basic print documents, such as brochures, data sheets, flyers, and manuals. PREREQ: ENGL 312 or PERM/INST.

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 305 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.

ENGL 415G ON-SCREEN DOCUMENT PRODUCTION (3-0-3)(F/S). An advanced study and application of the principles involved in designing, creating, and managing information on the screen. Topics include the relationship between screen layout and readability; techniques for integrating text, graphics, and multimedia; principles of writing and indexing on-screen instructional materials; and the use of online help and Web authoring software. Students will practice effective hypertext and screen design techniques in producing basic electronic documents, such as online help and Web sites. PREREQ: ENGL 312 or PERM/INST.

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 381.

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 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.

ENGL 508 WRITING, EDITING, AND DESIGNING FOR PROFESSIONAL ADVANCEMENT (3-0-3)(F/S). A writing course that studies literary journals, trade journals, and little magazines, and that looks at trade book and electronic publication with the intention of preparing students to write, design, and submit manuscripts, as well as prepare professional resumes and letters of application. May be repeated once for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 509 BOOK ARTS (3-0-3)(F,S). A historical survey of various aspects of bookmaking, including papermaking, typography, printing, binding, and desktop publishing, as well as book distribution/marketing, and production of artists’ and eccentric bookworks. Course culminates in production of a classroom edition of each student’s original writings or art works in an appropriate format devised by the student. PREREQ: ENGL 309 or PERM/INST.

ENGL 510 SEMINAR IN MAJOR AMERICAN OR ENGLISH WRITER (3-0-3)(F/S). A consideration of minor and major artistic creations of an author with attention to major influences on the writer and his/her influences on others. Aspects of investigation to include the life of the author and its relation to his/her work, the society and culture of the times, his/her place and stature in the genres in which he/she worked, his/her use or disregard of tradition, as well as an investigation of contemporary criticism and critical evaluation since the writer’s time. Repeatable for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 511 INTRODUCTORY SEMINAR IN TECHNICAL COMMUNICATION (3-0-3)(F,S). An introduction to the current definitions and theories of technical communication, including approaches from such related fields as rhetoric, linguistic, cognitive psychology, sociology, and philosophy. Students will also study the different job specializations within technical communication.

ENGL 512 TECHNICAL Rhetoric and Applications (3-0-3)(F/S). An advanced study of technical communication for those students who are or expect to become 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: ENGL 302 or ENGL 402 or ENGL 511 or PERM/INST.

ENGL 513 TECHNICAL EDITING (3-0-3)(F,S). An advanced course in the editing of technical documents. Major projects are related to each student’s field of interest. Topics of study include the theory and ethics of editing, content editing, copy editing, developmental editing, production editing, and online editing. PREREQ: ENGL 512 or PERM/INST.

ENGL 514 TECHNICAL COMMUNICATION ETHICS (3-0-3)(F,S). An examination of the various ethical issues inherent in the practice of technical communication. Topics include the ancient debate about the claims of philosophy and rhetoric; Kant’s categorical imperative; the modern standards of rights, justice, utility, and care; the employee’s obligations to the employer, the public, and the environment; and the common ethical issues faced by technical communicators, including plagiarism and copyright violation, the fair use of words and graphics, trade secrets, whistleblowing, and codes of conduct. The course will use the case study method.
ENGL 515 VISUAL RHETORIC AND INFORMATION DESIGN (3-0-3)(F/S). A study and application of the rhetorical elements of design, including color, line, form, images, and type. Students will be introduced to desktop publishing, graphics, and Web-authoring software. Students will apply principles of visual rhetoric in creating print and online technical documents. PREREQ: ENGL 515 or PERM/INST.

ENGL 516 TOPICS IN PRINT DOCUMENT PRODUCTION (3-0-3)(F/S). Study and application of the principles and techniques involved in taking print documents from conception to production. Topics will vary but can include desktop publishing, estimating time and cost, selecting paper and binding, working with pre-press and printing companies, and selecting appropriate distribution systems. The course assumes experience with personal computers and desktop publishing software. This course may be taken twice for credit. PREREQ: ENGL 515 or PERM/INST.

ENGL 517 ORAL COMMUNICATION FOR TECHNICAL COMMUNICATORS (3-0-3)(F/S). The theory and practice of several major kinds of oral communication modes used by technical communicators, including interviewing of technical experts and clients, group discussion, and technical presentations that incorporate presentation software. PREREQ: ENGL 515 or PERM/INST.

ENGL 518 WRITING SOFTWARE DOCUMENTATION (3-0-3)(F/S). The study and application of principles for creating effective print and online documentation. Topics can include content design and organization, writing style, graphic design, hyperertext, and usability testing. The course also addresses strategies for working successfully as a technical communicator. PREREQ: ENGL 515 or PERM/INST.

ENGL 519 TECHNICAL PUBLICATIONS MANAGEMENT (3-0-3)(F/S). Analysis and application of the principles of management and organizational behavior as they apply to the technical publications field. In a case-study environment focused on the publications process, students learn the techniques and practices of managing technical publications groups within organizational settings, while studying relevant principles of motivational theory and human behavior. PREREQ: ENGL 512 or PERM/INST.

ENGL 520 GENRE (3-0-3)(F/S). A study of a well defined literary category, such as novel, short story, epic, or tragedy. Examination of representative texts in order to discover the evolution of a specific literary genre while at the same time establishing its typical features. Repeatable for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 521 TOPICS IN ON-SCREEN DOCUMENT PRODUCTION (3-0-3)(F/S). Study and application of the principles involved in designing, creating, and managing information on the screen. Topics vary but can include advanced Web design, help systems, and multimedia applications. Students practice effective hypertext and screen-design techniques from the fields of cognitive science, software psychology, and human factors. This course may be taken twice for credit. PREREQ: ENGL 515 or PERM/INST.

ENGL 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.

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

ENGL 524 CREATIVE NONFICTION WRITING WORKSHOP (3-0-3)(F/S). An advanced workshop in creative nonfiction. Students will write creative nonfiction, submit their work for the critique of the workshop and contribute to the discussion of others’ writing. Readings may be assigned to address particular issues of craft and genre. Repeatable for credit; course must be taken a minimum of four times if this is the degree candidate’s genre. PREREQ: 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 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 ENGL 507. Students will read, select, copyedit, and proofread manuscripts in consultation with the editor of Alusahaan 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: ENGL 507 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 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.

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

ENGL 534 FORM AND THEORY OF CREATIVE NONFICTION (3-0-3)(F/S). An intensive study of aspects of craft in creative nonfiction. Course will expose students to particular methods, approaches, and techniques in creative nonfiction and their aesthetic effects. May be taken twice for credit. PREREQ: 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 INTRODUCTION TO RESEARCH METHODS IN RHETORIC AND COMPOSITION (3-0-3)(F/S). An introduction to research methods in Composition and Rhetoric and English Education, including teacher research, ethnography, and case study. Students will learn to develop research questions and choose appropriate research methods, as well as address ethical issues in conducting person-based research. PREREQ: ADM/PROG or PERM/INST.

ENGL 561 THEORIES OF COMPOSITION (3-0-3)(F)(even years). A study of the theoretical context of writing pedagogies from the 1960s to the present. Includes an examination of current-traditional, expressive, cognitive, and social theories that have influenced post-secondary writing instruction. PREREQ: ADM/PROG or PERM/INST.

ENGL 562 THEORIES OF RHETORIC (3-0-3)(F)(odd years). A survey of theories of the genre, paying particular attention to the ways the essay has evolved and become more varied in the Western tradition from the Greeks to the postmoderns. Special attention is given to enduring themes such as the importance of rhetoric in the theoretical and cultural context of writing instruction from the 16th century to the present. PREREQ: ADM/PROG or PERM/INST.

ENGL 563 THE THEORY AND TEACHING OF BASIC WRITING (3-0-3)(F/S). A study of the theory and practice of teaching basic writing. Surveys the history and politics of basic writing and remediation while focusing on specific instructional strategies, writing assignments, and assessment. Prepares students to teach basic writing at the college level, in learning centers, and in other adult learning settings. PREREQ: ENGL 561 or PERM/INST.

ENGL 564 ISSUES IN SECOND-LANGUAGE WRITING (3-0-3)(S)(Even years). Overview of second-language writing research, theory, and pedagogy, with an emphasis on linguistic and sociocultural issues faced by high school and adult learners of English. Pre-service and in-service teachers will develop effective instructional strategies for working with multilingual students and their writing. PREREQ: ENGL 561 or ENGL 598, 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 568 THE ESSAY TRADITION (3-0-3)(F/S). An examination of the essay tradition from its origins in Montaigne to its continuation in the writing of modern essayists from a variety of national and ethnic backgrounds. Explores theories of the genre, paying particular attention to the ways the essay has evolved and become more varied in the Western tradition from the Greeks to the postmoderns. Special attention is given to enduring themes such as the importance of rhetoric in the theoretical and cultural context of writing instruction from the 16th century to the present. PREREQ: ADM/PROG or PERM/INST.
been used to teach writing and thinking. PREREQ: ADM/PROG 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 (1-0-1)(F). 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 one-year course. PREREQ: ENGL 577 or PERM/INST.

ENGL 578 TEACHER RESEARCH IN LITERACY II (2-0-2)(S). Applications for K-13 teachers of classroom research techniques learned in ENGL 577. Participants complete a teacher research project. The second part of a one-year 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 583 SELECTED TOPICS IN RHETORIC AND COMPOSITION (3-0-3)(F/S). Investigation of selected theories or topics in rhetoric and composition, drawing from areas such as composition theory; rhetorical theory/history; cultural studies; literacy, media, and race/ethnic studies. Although of primary interest to rhetoric and composition majors, the course may be useful for graduate teaching assistants and for classroom teachers. Repeatable for credit. PREREQ: ADM/PROG or PERM/INST.

ENGL 584 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 585 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 586 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.

LING — Linguistics

LING 407G APPLIED LINGUISTICS IN TEACHING ENGLISH AS A SECOND LANGUAGE (3-0-3)(F/S)(Alternate years). Designed to help teachers in the bilingual classroom or teachers of students of limited proficiency in speaking English to understand how to deal with the process of learning English. It will focus on identifying, defining, and remedying the specific problems that confront learners of a second language. PREREQ: LING 305.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Department of Geosciences
Chair: David Wilkins
Environmental Research Building, Room 1160, Mail Stop 1535
Phone: (208) 426-2390 or 426-1631
Fax: (208) 426-4061
http://earth.boisestate.edu

Graduate Degrees Offered
- Doctor of Philosophy in Geophysics
- Doctor of Philosophy in Geosciences
- Master of Earth Science
- Master of Science in Geology
- Master of Science in Geophysics
- Master of Science in Hydrologic Sciences (See Interdisciplinary Programs)
- Graduate Certificate in Geographic Information Analysis

Graduate Program Committee
The Graduate Program Committee of the Department of Geosciences consists of the graduate program coordinators for geophysics, geology, hydrologic science, and earth science, plus the chair of the Department. The duties of the Graduate Program Committee are defined by the Department and are consistent with policies set by the University. These duties include development of recommendations for admission of prospective graduate students, decisions on transfer credits and required background courses, decisions on the award of departmental graduate fellowships and assistantships, and appointment of Supervisory Committees for graduate students.

Graduate College Requirements
The general requirements of the Boise State Graduate College also govern the geophysics, geology, and earth science degree programs.

Doctor of Philosophy in Geophysics
Doctoral Program Coordinator: Hans-Peter Marshall
Environmental Research Building, Room 3155, Mail Stop 1535
Phone: (208) 426-1416
E-mail: hpmarshall@boisestate.edu

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.

Graduate Teaching and Research Fellowships
Graduate fellowships including tuition and fee waivers are funded from three sources: appropriated state funds, endowments, and research grants and contracts. Applicants to the Ph.D. in Geophysics program who submit all documents required by the admission procedure by January 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.

Supervisory Committee
The Supervisory Committee is charged with general guidance of the doctoral student, including design and approval of the program of study, administration of the comprehensive examination, supervision of the dissertation research, and participation in the dissertation defense. The Supervisory Committee consists of a principal advisor who acts as chair, one member from the student’s chosen area of emphasis outside of geophysics (see Credit Requirements below), and at least two additional members, all of whom must be members of the University regular or research faculty and must also be members of the Graduate Faculty. One or more additional members may be appointed when such appointments enhance the function of the Committee. In all cases, regular or research faculty members of the Department of Geosciences must constitute a majority of the Supervisory Committee.

Application and Admission Requirements
Applicants are required to have a Bachelor’s or Master’s degree in a physical science, engineering, computer science, or mathematics from an accredited college or university. Admission will be competitive and will be based on transcripts, professional references, scores on the general test of the Graduate Record Examination (GRE), and evaluation of a technical manuscript provided by the applicant as evidence of technical writing skills. Students whose native language is not English must submit a TOEFL score of 587 or higher for the written exam or 95 Internet-based test (iBT).
Application materials should be requested from the Coordinator, Geophysics Doctoral Program, Boise State University, 1910 University Drive, Boise, ID 83725, telephone (208) 426-1631 or E-mail: hpmarshall@boisestate.edu.

Degree Requirements

<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 elective courses approved by the supervisory committee and by the Coordinator of the geophysics doctoral program</td>
<td>18</td>
</tr>
<tr>
<td>Area of emphasis outside of geophysics</td>
<td>12</td>
</tr>
<tr>
<td>Additional courses in geophysics and/or area of emphasis</td>
<td>10</td>
</tr>
<tr>
<td>GEOPH 693 Dissertation</td>
<td>18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>66</strong></td>
</tr>
</tbody>
</table>

Credit Requirements

Courses applied to meet the 66-credit minimum requirement must be taken for a letter grade (A-F), except that GEOPH 693 Dissertation is initially graded IP (In-Progress) and later graded P (Pass) or F (Fail) depending on the outcome of the dissertation defense. All geophysics electives must be graduate GEOPH courses with at least 12 credits at the 600 level. It is highly recommended that all geophysics graduate students take GEOPH 605 (Inversion Theory and Geophysical Applications) early in their program as one of their geophysics electives. Courses that comprise the area of emphasis outside of geophysics will typically be chosen from geology, physics, chemistry, engineering, computer science, or public policy, and must be approved by the Supervisory Committee. Courses taken to satisfy background requirements are not eligible to meet the credit requirements. On-campus graduate students are required to enroll for GEOPH 598 Graduate Seminar each and every time it is offered but GEOPH 598 may not be applied to meet the geophysics elective requirement.

Comprehensive Examination

The objective of the comprehensive examination is to judge depth and breadth of knowledge in geophysics and the area of emphasis. The examination is to be developed and administered by the Supervisory Committee. A student must take the comprehensive examination in the semester following completion of 36 course credits that are to be applied to the program requirements (exclusive of GEOPH 693 Dissertation but inclusive of transfer credits). The outcome of the examination is determined by the Supervisory Committee and must be pass or fail. A student who fails the comprehensive examination is dismissed from the Ph.D. program.

Dissertation Requirements

The dissertation must be the result of independent and original research by the student and must constitute a significant contribution to geophysical knowledge equivalent to multiple peer-reviewed publications. The style and format of the dissertation are to conform to the standards of the Department of Geosciences and the Graduate College.

Dissertation Defense

A public defense of the dissertation is scheduled after the Supervisory Committee has reviewed a draft that is considered to be nearly a final version. The date of the defense is determined jointly by the Supervisory Committee and the student and must be consistent with any guidelines provided by the Graduate College. A Defense Committee is formed that consists of a non-voting Graduate Faculty Representative (GFR) and the following voting members: the chair and members of the Supervisory Committee and an external examiner. The GFR chairs the Defense Committee and is appointed by the Dean of the Graduate College in accordance with Graduate College guidelines. The GFR must have Full Graduate Faculty status, must be from outside the student's discipline, and cannot be a member of the Supervisory Committee. The external examiner is a faculty member from another university who is a recognized expert in the field of the dissertation research and is appointed to the Defense Committee by the Dean of the Graduate College. Attendance at the defense by external examiner is not required. A written evaluation of the dissertation must be submitted by the external examiner in the event that he or she does not attend the defense. If a written evaluation is submitted, it must include a pass/fail vote and must be delivered to the chair of the defense committee at least 3 weeks prior to the defense. The written evaluation provided by the external examiner is distributed to the other members of the Defense Committee at least 2 weeks before the defense. The chair of the Defense Committee conducts the defense according to the procedure established for the Department of Geosciences by the Graduate Program Committee. A majority vote is used to decide the outcome (pass or fail). In the event of a split vote, the Dean of the Graduate College will also cast a vote after consultation with the defense chair and the Supervisory Committee. A student who fails the defense may be permitted to try again but failure a second time will result in dismissal from the program.

Final Approval of the Dissertation

If the defense is completed with a result of pass, the Supervisory Committee prepares a statement describing final requirements such as additions or modifications to the dissertation and any additional requirements such as archival of data. When these requirements have been met to the satisfaction of the Supervisory Committee, the approval page of the dissertation is signed by the members of the Committee.
Doctor of Philosophy in Geosciences
Doctoral Program Coordinator: Mark Schmitz
Environmental Research Building room 5155, Mail Stop 1535
Phone: (208) 426-5907
Fax: (208) 426-4061
E-mail: markschmitz@boisestate.edu

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.

Graduate Teaching and Research Fellowships
Graduate fellowships including tuition and fee waivers are funded from three sources: appropriated state funds, endowments, and research grants and contracts. Applicants to the Ph.D. in 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.

Graduate Program Committee
The Graduate Program Committee of the Department of Geosciences consists of the graduate program coordinators for each of the graduate programs in the department, plus the chair of the Department. The duties of the Graduate Program Committee are defined by the Department and are consistent with policies set by the University. These duties include development of recommendations for admission of prospective graduate students, decisions on transfer credits and required background courses, decisions on the award of departmental graduate fellowships and assistantships, and appointment of Supervisory Committees for graduate students.

Supervisory Committee
The Supervisory Committee is charged with general guidance of the doctoral student, including design and approval of the program of study, administration of the comprehensive examination, supervision of the dissertation research, and participation in the dissertation defense. The composition of the Supervisory Committee is recommended by the Graduate Program Committee and approved and appointed by the Graduate College.

Application and Admission Requirements
An applicant must follow the general application procedures for admission to a graduate program (see Graduate Admission Regulations). Applicants are required to have a Bachelor's or Master's degree in a geosciences or a related discipline from an accredited college or university. Admission will be competitive and will be based on transcripts, professional references, scores on the general test of the Graduate Record Examination (GRE), and evaluation of a letter of intent which describes the applicant's professional interests and plans for the future. Students whose native language is not English must submit a TOEFL score of 587 or higher for the written exam or 95 Internet-based test (iBT). Application materials should be requested from the coordinator, Geosciences Doctoral Program, Boise State University, 1910 University Drive, Boise, ID 83725, telephone (208) 426-5907 or E-mail: markschmitz@boisestate.edu.

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 coordinator of the geosciences doctoral program</td>
<td>32</td>
</tr>
<tr>
<td>Additional elective courses in geosciences or related fields as approved by the supervisory committee and by the coordinator of the geosciences doctoral program</td>
<td>16</td>
</tr>
<tr>
<td>GEOS 691 Doctoral Comprehensive Examination</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 693 Dissertation</td>
<td>18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>67</strong></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.

Comprehensive Examination
The objective of the comprehensive examination is to judge depth and breadth of knowledge in Geosciences, and it is developed and administered by the Supervisory Committee. A student must take the comprehensive examination prior to the end of their fourth semester. The outcome of the examination is determined by the Supervisory Committee and must be one of the following: pass or fail.

Dissertation Requirements
The dissertation must be the result of independent and original research by the student and must constitute a significant contribution to geoscientific knowledge equivalent to multiple peer-reviewed publications. The style and format of the dissertation are to conform to the standards of the Department of Geosciences and the Graduate College.
Dissertation Defense

A public defense of the dissertation is scheduled after the Supervisory Committee has reviewed a draft that is considered to be nearly a final version. The Supervisory Committee and the student determine the date of the defense jointly and must be consistent with any guidelines provided by the Graduate College. The defense is conducted according to the procedure established by the Department of Geosciences and governed by the policies of the Graduate College.

Final Approval of the Dissertation

If the defense is completed with a result of pass, the Supervisory Committee prepares a statement describing final requirements such as additions or modifications to the dissertation and any additional requirements. When these requirements have been met to the satisfaction of the Supervisory Committee, the members of the Committee sign the approval page of the dissertation.

Graduate College Requirements

The general requirements of the Boise State Graduate College also govern the Doctor of Philosophy in Geosciences degree program.

Master of Earth Science

Graduate Program Coordinator: David Wilkins
Environmental Research Building, Room 4163, Mail Stop 1535
Phone: (208) 426-2390
E-mail: dwilkins@boisestate.edu

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 Geology, 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.

Application and Admission Requirements

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

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>11-12</td>
</tr>
<tr>
<td>Geology Core (4 of the following 6 courses)</td>
<td></td>
</tr>
<tr>
<td>GEOS 523 Advanced Geomorphology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 525 Whole Earth Geochemistry (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 541 Plate Tectonics (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 560 Volcanology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 607 Paleoclimatology and Paleoceanography (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 611 Basin Analysis (3 cr)</td>
<td></td>
</tr>
<tr>
<td>Hydrologic Science Core</td>
<td></td>
</tr>
<tr>
<td>GEOS 512/CE 512 Hydrogeology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 516 Hydrology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 518 Applied Hydrologic Modeling (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 526/CE 526 Aqueous Geochemistry (3 cr)</td>
<td></td>
</tr>
<tr>
<td>Geophysics Core</td>
<td></td>
</tr>
<tr>
<td>GEOPH 501 Properties and Processes in Geophysics I (4 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOPH 502 Properties and Processes in Geophysics II (4 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOPH 605 Inversion Theory and Geophysical Applications (3 cr)</td>
<td></td>
</tr>
<tr>
<td>Elective coursework in geosciences and related fields.</td>
<td>23-24</td>
</tr>
<tr>
<td>Elective coursework must be approved by the student's supervisory committee and the Department's Graduate Programs Committee.</td>
<td></td>
</tr>
<tr>
<td>GEOS 598 Graduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>GEOS 690 Master's Comprehensive Examination</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>37-38</td>
</tr>
</tbody>
</table>
College of Arts and Sciences
Department of Geosciences

Master of Science in Geology

Graduate Program Coordinator: Mark Schmitz
Environmental Research Building, Room 5155, Mail Stop 1535
Phone: (208) 426-5907
E-mail: markschmitz@boisestate.edu

General Information

The program leading to the degree of Master of Science (M.S.) in geology 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.

Application and Admission Requirements

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

Degree Requirements

<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>Geology Core (4 of the following 6 courses)</td>
<td>12</td>
</tr>
<tr>
<td>GEOS 523 Advanced Geomorphology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 525 Whole Earth Geochemistry (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 541 Plate Tectonics (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 560 Volcanology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 607 Paleoclimatology and Paleooceanography (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 611 Basin Analysis (3 cr)</td>
<td></td>
</tr>
<tr>
<td>GEOS 601 Graduate Orientation</td>
<td>2</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 M.S. Geology program.</td>
<td>9</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

Credit Requirements

All 30 credits must be taken for a letter grade, except for GEOS 593 Thesis credit which will be graded Pass/Fail.

Thesis Requirements

A thesis representing research of sufficient quality to warrant publication in a peer-reviewed journal is required of all candidates for the Master of Science in Geology. Actual publication is not required, but is held out as a goal for all graduate students. The research results must be presented at a formal public defense, and the final written thesis must be approved by the supervisory committee, by the Coordinator of the geology graduate program, and by the Dean of the Graduate College. In order to provide sufficient time for thorough evaluation of thesis research, a student should allow 3-6 months between preparation of the first draft of the thesis and the day of the formal defense. Frequent communication between the student, the supervisory committee, and the Coordinator is essential throughout this period.

Master of Science in Geophysics

Graduate Program Coordinator: Hans-Peter Marshall
Environmental Research Building, Room 3155, Mail Stop 1535
Phone: (208) 426-1416
E-mail: hpmarshall@boisestate.edu

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, and is closely tied to 
the Center for Geophysical Investigation of the Shallow Subsurface 
(CGISS) at Boise State. 

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, 
edowments, and research grants and contracts. Applicants to the 
M.S. Geophysics program who submit all documents required 
by the admission procedure by February 1 of any given year 
will be considered for a state appropriated or endowed graduate 
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. 

Supervisory Committee 
Each admitted student will be assigned a supervisory committee 
whose purpose is to design the program of courses, guide the student's research, conduct the thesis defense, and approve the final thesis. The supervisory committee consists of at least three members: a chair from BSU who takes on the primary advising role, and at least two members chosen in any combination from BSU, ISU, or other institutions (selection based on a direct interest in the student's research). The Coordinator of the geophysics graduate program works closely with each supervisory committee and will serve as temporary advisor to each new student until a supervisory committee can be assigned. 

Application and Admission Requirements 
Applicants should have a B.S. or equivalent degree from an 
accredited institution in one of the following fields: geophysics, 
geology, hydrology, physics, chemistry, mathematics, or engineering. Evaluation for admission requires three personal references, transcripts from all colleges and universities attended, and scores on the GRE General Test. Students whose native language is not 
English must submit a TOEFL score of 587 or higher for the written 
exam or 95 Internet-based test (iBT). A copy of a report resulting 
from a previous university course, professional position, or research experience is also requested as evidence of the applicant's ability 
to complete a significant project and write an acceptable scientific 
report. Preference is given to those applicants whose records indicate 
a high probability for successful completion of publishable graduate research. Application materials should be requested from the 
Coordinator, Geophysics Graduate Program, Boise State University, 
1910 University Drive, Boise, ID 83725. 

Degree Requirements 

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. GEOPH 501 Properties and Processes in Geophysics I</td>
<td>4</td>
</tr>
<tr>
<td>B. GEOPH 502 Properties and Processes in Geophysics II</td>
<td>4</td>
</tr>
<tr>
<td>C. GEOPH 601 Graduate Orientation</td>
<td>2</td>
</tr>
<tr>
<td>D. Elective courses approved by the supervisory committee and by the Coordinator of the geophysics graduate program.</td>
<td>14</td>
</tr>
<tr>
<td>E. GEOPH 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

Credit Requirements 
All 30 credits must be taken for a letter grade, except for GEOPH 593 Thesis credit which will be graded Pass/Fail. On-campus 
geophysics graduate students are required to take GEOPH 598 Graduate Seminar for a letter grade each and every semester 
it is offered. Credit for GEOPH 598 does not count toward the total degree requirement of 30 credits. Transfer credits may not be used for requirements A, B, or D. A maximum of 9 transfer 
credits may be applied to meet requirement C except that up to 
12 credits of requirement C may be satisfied with transfer credits 
from the University of Idaho and/or Idaho State University. Certain courses are ineligible for requirement C including courses applied 
to a previously obtained degree, courses used to meet admission 
requirements, and courses required to remedy background deficiencies. 

The purpose of requirement C is to provide an opportunity for 
elective courses within geophysics or in an associated field of science 
or engineering; these are often courses which are appropriate to 
a student's thesis or future employment goals. In all cases, the 
courses applied to meet requirement C must be approved by the 
student's supervisory committee and by the Coordinator of the 
geophysics graduate program, and the majority of the 30-credit total 
requirement (i.e., at least 16 credits) must be earned in residence at 
Boise State.
College of Arts and Sciences
Department of Geosciences

Thesis Requirements
A thesis representing research of sufficient quality to warrant publication in a peer-reviewed journal is required of all candidates for the Master of Science in Geophysics. Actual publication is not required, but is held out as a goal for all graduate students. The research results must be presented at a formal public defense, and the final written thesis must be approved by the supervisory committee, by the Coordinator of the geophysics graduate program, and by the Dean of the Graduate College. In order to provide sufficient time for thorough evaluation of thesis research, a student should allow 3-6 months between preparation of the first draft of the thesis and the day of the formal defense. Frequent communication between the student, the supervisory committee, and the Coordinator is essential throughout this period.

Hydrologic Sciences—see Interdisciplinary Programs

Graduate Certificate in Geographic Information Analysis
Graduate Program Coordinator: David Wilkins
Environmental Research Building, Room 4163, Mail Stop 1535
Phone: (208) 426-2390
E-mail: dwilkins@boisestate.edu

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.

Certificate Requirements

<table>
<thead>
<tr>
<th>Graduate Certificate in Geographic Information Analysis</th>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Courses</strong></td>
<td>GEOG 560 Introduction to Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEOG 561 Remote Sensing and Image Processing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective Courses</strong></td>
<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></td>
<td>Total</td>
<td>15</td>
</tr>
</tbody>
</table>

Course Offerings

See Course Numbering and Terminology for definitions.

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

GENSCI — General Science

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

GEOG — Geography

GEOG 560 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (2-2-3)(F/S). 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 (2-2-3)(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. 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 563 GEOSPATIAL PROJECT (1-6-3)(F/S). For graduate students with extensive previous GIS experience or course work. Students will independently identify a problem, design, implement and complete a project utilizing geospatial techniques and analysis of that problem. This course and the project are intended to supplement thesis or dissertation research. Lab fee. PREREQ: GEOG 562 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. Geological interpretation and formation evaluation of conventional petroleum industry well logs. Integration of borehole geophysics, seismic reflection data, and geology for water resource studies and petroleum exploration. 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, GEOPH 201 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: GEOPH 305, 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: GEOPH 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: MATH 175.

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). 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)(S)(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 firn, 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 GEOPH 305, or PERM/INST.

GEOPH 601 (GEOS 601) GRADUATE ORIENTATION (2-0-2)(F). General orientation to the graduate program in Geology and Geophysics. Introduction to the requirements of the programs and development of technical writing skills through the preparation of abstracts and papers for research Council 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 latter. Review of linear algebra, eigenvalue decomposition, basis functions, basis vectors, metrics, objective functions, transformation and representation, error analysis, linear and nonlinear inverse methods, gradient descent methods, grid searches, simulated annealing. Computer laboratory exercises. PREREQ: MATH 301.

GEOPH 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. Methods for the non-intrusive assessment of subsurface profiles with emphasis on the identification 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. PREREQ: 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 (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: 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, city and land use planning, building codes, and evaluation of insurance needs. Topics include seismicity, seismotectonic features, regional seismic attenuation, ground motion parameters, response spectra, local amplification, and estimation of uncertainty. Students interested in earthquake ground motion are also encouraged to consider GEOPH 610 as a related course. Scheduled offering based on student interest. PREREQ: GEOPH 677, GEOS 314, or PERM/INST.


GEOPH 641 (GEOS 641) GEODYNAMICS (3-0-3)(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: GEOPH 305, 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. Laboratory exercises. PREREQ: MATH 301.

GEOPH 677 EARTHQUAKE SEISMOLOGY (3-0-3)(F)(Even years). Physics of the earthquake source, with special emphasis on earthquakes at volcanoes, tectonic earthquakes, volcanic-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.

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College of Arts and Sciences
Department of Geosciences
GEOS — Geoscience

GEOS 451G PRINCIPLES OF SOIL SCIENCE (3-0-3)(F/S)(Offered as justified). Major aspects of soil science, including the physical, chemical, and biological characteristics of soils, will be presented in the classroom lectures. Demonstration laboratory exercises and field trips will be required. PREREQ: Background in geology and chemistry.

GEOS 505 INTRODUCTION TO NUMERICAL METHODS FOR THE GEOSCIENCES (1-2-3)(S). Programming and numerical methods using MATLAB. Standards 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 GE or GEOS credit, but not both. PREREQ: CE 330 or ENGR 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, 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 (3-0-3)(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 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.

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 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 internship experience in the laboratory and lecture classroom. PREREQ: Graduate status 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 selected hydrologic processes and applications. Topics will vary each year and may include runof generation, snow hydrology, watershed management, hydrologic modeling, sediment transport, land-use hydrology and field methods among others. Repeatable for credit. PREREQ: PERM/INST.

GEOS 581 SELECTED TOPICS IN REMOTE SENSING (1-3 credits)(F/S). Theory and techniques of using remotely sensed data for mapping and analysis of geographic features. Selected topics will vary, ranging from atmospheric correction and modeling, to image classification, accuracy assessment, advanced hyperspectral and laser scanning techniques, 3D visualization, and field methods among others. Repeatable for credit. PREREQ: PERM/INST.

GEOS 582 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 an 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, cosmogenic, 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 (GEOP 601) GRADUATE ORIENTATION (2-0-2)(F). General orientation to the graduate program in Geology and Geophysics. Introduction to the requirements of the programs and development of technical writing skills through the preparation of abstracts, proposals for research funding, and thesis proposals. May be taken for GEOP 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/S). 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 GEOLGIC 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 paleoclimatic change. PREREQ: PERM/INST.

GEOS 616 WASTEWATER 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 GEOS 512 or GEOS 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, GEOS 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 tectonites. Structural elements in plutons, their formation and interpretation as indicators of the tectonic environment during emplacement. Mesoscopic and microscopic study of rock fabrics, the mechanisms and processes of their formation and deformation, and their use as kinematic and strain indicators. PREREQ: PERM/INST.

GEOS 645 PHYSICS AND CHEMISTRY OF MOUNTAIN BUILDING (3-0-3) (F). 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 (1-3-3)(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: GEOS 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 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.)

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
College of Arts and Sciences
Department of Mathematics

Department of Mathematics
Chair: Leming Qu
Mathematics Building, Room 235, Mail Stop 1555
Phone: (208) 426-1172
Fax: (208) 426-1356
http://math.boisestate.edu
E-mail: office@math.boisestate.edu

Graduate Degrees Offered
- Master of Science in Mathematics
- Master of Science in Mathematics Education

Master of Science in Mathematics
Graduate Program Coordinator: Jodi Mead
Mathematics Building, Room 140A, Mail Stop 1555
Phone: (208) 426-2432
E-mail: jmead@boisestate.edu

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. Students interested in applying for a graduate teaching or research assistantship should contact the graduate program coordinator for further information.

Application and Admission Procedures
An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations) and must submit three letters of recommendation and GRE general test scores. Applicants whose native language is not English must submit TOEFL scores and may be interviewed if applying for a graduate teaching assistantship. Once the file for an applicant is complete, it will be evaluated by the Mathematics Graduate Committee and an admission recommendation (regular, provisional, or denial) will be forwarded to the dean of the Graduate College who will make the final admission decision and notify the applicant.

Conditions for Admission
The conditions for admission are the minimum admission requirements of the Graduate College (see the Graduate Admission Regulations section of this catalog) where the required baccalaureate degree must be in mathematics or a closely related field involving substantial course work in mathematics. These conditions are necessary for admission to the program but do not guarantee admission.

Supervisory Committee
Each admitted student intending to do a thesis will be assigned a three-member supervisory committee consisting of a major advisor who serves as chair and two additional members. The role of the supervisory committee is to guide the student in all aspects of his or her graduate study. All other admitted students will be assigned an advisor who carries out the same role. The Mathematics Graduate Committee maintains oversight of the program by monitoring

the academic progress of each student and the performance of the graduate teaching assistants.

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.

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<th>Master of Science in Mathematics</th>
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<tr>
<td>Course Number and Title</td>
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<tr>
<td><strong>Required Core Graduate Mathematics Course</strong></td>
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<tr>
<td>MATH 515 Real and Linear Analysis</td>
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<td>One of the following areas of emphasis</td>
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<tr>
<td>Applied Mathematics</td>
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<tr>
<td>MATH 557 Principles of Applied Mathematics (3 cr)</td>
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<tr>
<td>MATH 566 Numerical Analysis II (3 cr)</td>
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<tr>
<td><strong>Pure Mathematics</strong></td>
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<td>At least two of the following:</td>
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<tr>
<td>MATH 506 Advanced Algebra (3 cr)</td>
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<td>MATH 507 Advanced Number Theory (3 cr)</td>
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<td>MATH 509 Symmetric Key Cryptology (3 cr)</td>
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<td>MATH 512 Advanced Topology (3 cr)</td>
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<td>MATH 522 Advanced Set Theory (3 cr)</td>
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<td><strong>Statistics</strong></td>
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<td>MATH 562 Probability and Statistics (3 cr)</td>
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<td>At least one of the following:</td>
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<tr>
<td>MATH 572 Computational Statistics (3 cr)</td>
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<td>MATH 573 Time Series Analysis (3 cr)</td>
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<tr>
<td>MATH 574 Linear Models (3 cr)</td>
</tr>
<tr>
<td>Additional graduate courses and a culminating activity chosen from one of the following possibilities:</td>
</tr>
<tr>
<td>Comprehensive Examination</td>
</tr>
<tr>
<td>Seven courses totaling at least 21 credits (21 cr)</td>
</tr>
<tr>
<td>MATH 690 Master’s Comprehensive Examination (1 cr)</td>
</tr>
<tr>
<td><strong>Project</strong></td>
</tr>
<tr>
<td>Five courses totaling at least 15 credits (15 cr)</td>
</tr>
<tr>
<td>MATH 590 Practicum/Internship (3 cr)</td>
</tr>
<tr>
<td>MATH 591 Project (3 cr)</td>
</tr>
<tr>
<td><strong>Thesis</strong></td>
</tr>
<tr>
<td>Five courses totaling at least 15 credits (15 cr)</td>
</tr>
<tr>
<td>MATH 593 Thesis (6 cr)</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

Comprehensive Examination
The comprehensive examination consists of one written three-hour exam (covering the content of MATH 515 and two courses in the student’s chosen area of emphasis) and a seminar presentation of a research report based on current literature in the student’s emphasis area.

Project
The written project must be related to an internship experience and presented at a public oral presentation.

Thesis
The thesis must be an original contribution by the student to mathematical knowledge. The student must present and defend the thesis research at a final oral examination.
Master of Science in Mathematics Education
Graduate Program Coordinator: Sasha Wang
Mathematics Building, Room 220B, Mail Stop 1555
Phone: (208) 426-3388
E-mail: sashawang@boisestate.edu

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.

Application and Admission Requirements
An applicant should follow the general application procedures for graduate degree-seeking students (see the Graduate Admission Regulations section of this catalog). A candidate’s letter of intent should describe the applicant’s goals in pursuing graduate study in mathematics education. In addition, an applicant must arrange for three letters of recommendation from people who know the applicant’s academic or professional work. Once the application file is complete, the program faculty will evaluate it and forward an admission recommendation (regular, provisional, or denial) to the Dean of the Graduate College. In the case of a recommendation for provisional admission, the program faculty will also recommend the stipulations that must be satisfied by the student to advance to regular status. The Dean will make the final admission decision and notify the applicant and the Graduate Program Coordinator.

Conditions for Admission
The conditions for admission are the minimum admission requirements of the Graduate College (see the Graduate Admission Regulations section of this catalog) where the required baccalaureate degree must be in mathematics secondary education, mathematics, elementary education or a closely related field. These conditions are necessary for admission but do not guarantee admission.

Supervisory Committee
Each admitted student will have a three-member supervisory committee consisting of an advisor who will serve as chair, and two additional members. The role of the supervisory committee is to support the student in the design and, execution, of the culminating experience (either a thesis or project). The advisor is responsible for guiding the student in all other aspects of graduate study, including the choice of course work to meet the degree requirements.

Degree Requirements
General M. S. 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).

Thesis
The thesis option is the best choice for students who plan to pursue doctoral work. Each student choosing the thesis option must pass a public oral defense.

Project
The project option is a good choice for students who plan to continue working as a classroom teacher. The end goal of the project is a scholarly manuscript appropriate for a practitioner journal. Each student choosing the project option must give a public oral presentation.

<table>
<thead>
<tr>
<th>Master of Science in Mathematics Education</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number and Title</td>
<td></td>
</tr>
<tr>
<td>In addition to the required credits in MATH, candidates who have previously not successfully completed an undergraduate mathematical statistics course must consult with their advisor and take such a course.</td>
<td></td>
</tr>
<tr>
<td>Required Mathematics Education Courses</td>
<td></td>
</tr>
<tr>
<td>MATHED 510 Mathematics Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>MATHED 511 Survey of Research in Mathematics Education</td>
<td>3</td>
</tr>
<tr>
<td>MATHED 523 Teaching and Learning Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATHED 524 Teaching and Learning Geometry</td>
<td>3</td>
</tr>
<tr>
<td>Required Education Courses</td>
<td></td>
</tr>
<tr>
<td>ED-CIFS 503 Fundamentals of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>MATH Electives at or above MATH 501</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td>MATHED, Education, or another area.</td>
<td>6</td>
</tr>
<tr>
<td>591 Project or 593 Thesis in MATH or MATHED</td>
<td>3-6</td>
</tr>
<tr>
<td>Total</td>
<td>30-33</td>
</tr>
</tbody>
</table>
Course Offerings

See Course Numbering and Terminology for definitions.

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 or MATH 147.

MATH 502 LOGIC AND SET THEORY (3-0-3)(S).

Structured as three five-week components: formal logics, 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 orderings, ordinals, the transfinite recursion theorem, and the Axiom of Choice and some of its equivalents.
PREREQ: MATH 314.

MATH 503 ADVANCED LINEAR ALGEBRA (3-0-3)(S).

Introduces the 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 314.

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 306.

MATH 508 ADVANCED PUBLIC KEY CRYPTOLOGY (3-0-3)(F).

Galois Fields, Vector Spaces and Lattices. Group based and lattice asymmetric cryptographic primitives based. Security models for public key cryptosystems. The study of security foundations of current public key cryptosystems. Dual-listed with MATH 408. PREREQ: 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. Dual-listed with MATH 409. PREREQ: 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)(F).

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 515 REAL AND LINEAR ANALYSIS (3-0-3)(F).

PREREQ: MATH 414 or MATH 514.

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 533 ORDINARY DIFFERENTIAL EQUATIONS (3-0-3)(S)(Odd years).

Theory of linear and nonlinear differential equations and their systems, including Dynamical systems theory. Properties of solutions including existence, uniqueness, asymptotic behavior, stability, singularities and boundedness.
PREREQ: 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 333 or MATH 433 or MATH 533.

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 556 LINEAR PROGRAMMING (3-0-3)(SU)(On demand).

PREREQ: MATH 301.

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/S).

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 NUMERICAL ANALYSIS I (3-0-3)(F).

PREREQ: MATH 301 or MATH 333.

MATH 566 NUMERICAL ANALYSIS II (3-0-3)(S).

Techniques for finding approximate solutions of ordinary and partial differential equations using MATLAB or other technical computing environment.
PREREQ: MATH 565 or PERM/INST.

MATH 571 DATA ANALYSIS (3-0-3)(S)(Even years).

Provides an application of the various disciplines in statistics to data analysis, 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, one-way and two-way analysis of variance, regression analysis and contingency tables. PREREQ: MATH 361.

MATH 572 COMPUTATIONAL STATISTICS (3-0-3)(F)(Even years). 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.

MATH 573 TIME SERIES ANALYSIS (3-0-3)(F)(Odd 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.

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 (1-0-3). 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.

SELECTED TOPICS (1-3 Variable). To be offered as staff availability permits:

MATH 580 SET THEORY
MATH 581 LOGIC
MATH 582 TOPOLOGY
MATH 583 COMPUTATIONAL MATHEMATICS
MATH 584 COMPUTATIONAL ALGEBRA
MATH 585 CRYPTOLOGY
MATH 586 STATISTICS
MATH 587 DIFFERENTIAL EQUATIONS
MATH 588 INVERSE THEORY

MATH 598 SEMINAR IN MATHEMATICS (variable credit). The content will vary within a format of student presentation and discussion of relatively advanced mathematical topics selected from texts or mathematical journals. This will not be a seminar in mathematics education.

MATHED — Mathematics Education

MATHED courses are designed to provide extra experience in mathematics and the teaching of mathematics for practicing teachers. They may be used to meet course requirements for master's degrees in education. They are not available for undergraduate credit.

MATHED 510 MATHEMATICS CURRICULUM (3-0-3)(SU). The history of the 7-12 mathematics curriculum; content, special programs, and trends in mathematics programs; organization of the curriculum, study of reports and recommendations; curriculum development projects. PREREQ: At least one year's experience teaching in middle or secondary school mathematics.

MATHED 511 SURVEY OF RESEARCH IN MATHEMATICS EDUCATION I (3-0-3)(SU). Survey of current research in and discussion of issues relating to the teaching and learning of mathematics. PREREQ: Teaching certification or PERM/INST.

MATHED 512 SURVEY OF RESEARCH IN MATHEMATICS EDUCATION II (3-0-3)(SU). Continuation of MATHED 511. PREREQ: MATHED 511.

MATHED 523 TEACHING AND LEARNING ALGEBRA (3-0-3)(SU). Contemporary approaches to teaching secondary school algebra; treatment of selected topics in secondary school algebra; methods and materials; research relevant to the teaching of algebra. PREREQ: MATH 147 or MATH 257 or teaching certification in mathematics.

MATHED 524 TEACHING AND LEARNING GEOMETRY (3-0-3)(SU). Contemporary approaches to teaching secondary school geometry; treatment of selected topics in geometry; methods and materials; research relevant to the teaching of geometry. PREREQ: MATH 147 or MATH 257 or teaching certification in mathematics.

MATHED 525 TEACHING AND LEARNING CALCULUS (3-0-3)(SU). Contemporary approaches to teaching secondary school calculus; use of symbolic algebra and graphing software; treatment of selected topics in calculus including limit, derivative, and integral. PREREQ: MATH 175.

MATHED 526 TEACHING AND LEARNING STATISTICS (3-0-3)(SU). Contemporary approaches to teaching secondary school statistics; treatment of selected topics in statistics; methods and materials; research relevant to the teaching of statistics. PREREQ: MATH 147 or MATH 257 or teaching certification in mathematics.

MATHED 557 ADVANCED PROBLEM SOLVING AND NUMBER THEORY FOR TEACHERS (3-0-3)(SU). Advanced study of number systems from whole numbers through the reals with an emphasis on problem solving and number theory. The course will make use of appropriate models to support the development of the content. This course is appropriate for teachers seeking to strengthen and extend their mathematical knowledge. PREREQ: MATH 147 or MATH 257 or teaching certification in mathematics.

MATHED 558 ADVANCED GEOMETRY AND PROBABILITY FOR TEACHERS (3-0-3)(SU). In-depth study of geometry and probability, including work with mathematical models. This course is appropriate for teachers seeking to strengthen and extend their mathematical knowledge. PREREQ: MATH 147 or MATH 257 or teaching certification in mathematics.

MATHED 598 SEMINAR IN MATHEMATICS EDUCATION (2-0-2)(SU). The content will vary within a format of student presentation and discussion of relatively advanced mathematics education topics selected from texts or journals. This will not be a seminar in mathematics education.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Department of Music
Chair: Mark Hansen
Morrison Center, Room C-100, Mail Stop 1560
Phone: (208) 426-1596
Fax: (208) 426-1771
http://music.boisestate.edu/

Graduate Degrees Offered
- Master of Music, Music Education
- Master of Music, Performance

Master of Music
Graduate Program Coordinator: Jeanne Belfy
Morrison Center for the Performing Arts, Room C-309, Mail Stop 1560
Phone: (208) 426-1216
E-mail: jbelfy@boisestate.edu

General Information
The Master of Music 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.

The Department offers four full graduate teaching and service assistantships, and a flexible number of additional assistantships are available through the Blue Thunder Marching Band program. A cooperative program for string students exists with the Boise Philharmonic Orchestra. Contact the Graduate Program Coordinator for further information.

Application and Admission Requirements
Admission will be granted to applicants who hold a Bachelor's degree in music (B.M., B.A., or B.S. with a music major) from an accredited college or university, and who give promise of meeting the standards set by the Department of Music and the University. Students seeking Music Education Emphasis must possess the B.M.Ed. or equivalent with certification, and submit a teaching portfolio to include a formal writing sample, lesson plan samples including assessment tools, program sample, teaching video, and three letters of reference from professionals who are familiar with the applicant's teaching. Students seeking admission to the Performance Emphases must submit a formal writing sample (short undergraduate academic research paper) and three letters of recommendation from professors familiar with their work, and perform a satisfactory audition, in person, before the performance faculty of his/her major performance area (keyboard, winds, strings, etc.). Audition details are available from the Department of Music.

Before a graduate student can be admitted to Regular Status, predictive examinations in music history and music theory must be passed. Predictive examinations identify strengths and weaknesses so that an individual academic program can be formulated to best serve the student's needs. Remedial courses used to remove deficiencies do not count toward the degree. A student who has deficiencies will be granted Provisional Status in the graduate program. When deficiencies have been removed, the student may then seek Regular Status. A description of material covered on these examinations is available from the Department of Music.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Master of Music, Music Education</strong></td>
<td></td>
</tr>
<tr>
<td>Graduation Requirements</td>
<td></td>
</tr>
<tr>
<td>33-36 credits minimum, stipulated below, are required for graduation. The actual number of credit hours may vary depending on the needs of individual students as determined by the results of predictive examinations. Candidates are required to establish an area of emphasis in one of the following: elementary, choral, or instrumental music education.</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 Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 570 New Developments in Music Education</td>
<td>3</td>
</tr>
<tr>
<td>MUS 576 History and Philosophy of Music Education</td>
<td>3</td>
</tr>
<tr>
<td>Music Education Emphasis Area and Electives</td>
<td></td>
</tr>
<tr>
<td>(courses selected with the approval of the student’s Committee)</td>
<td></td>
</tr>
<tr>
<td>A. 6 credits in the student’s area of emphasis:</td>
<td></td>
</tr>
<tr>
<td>elementary general music, choral music, or instrumental music.</td>
<td>6</td>
</tr>
<tr>
<td>B. 3 credits additional approved electives in music</td>
<td>3</td>
</tr>
<tr>
<td>Other Music Courses</td>
<td></td>
</tr>
<tr>
<td>(courses selected with the approval of the student’s Committee)</td>
<td></td>
</tr>
<tr>
<td>Music History</td>
<td>3</td>
</tr>
<tr>
<td>Additional credits selected from the following area(s)</td>
<td>6</td>
</tr>
<tr>
<td>A. Additional music theory or history course(s)</td>
<td></td>
</tr>
<tr>
<td>B. Music Ensemble(s)</td>
<td></td>
</tr>
<tr>
<td>C. Private Music Lessons</td>
<td></td>
</tr>
<tr>
<td>D. Conducting course(s)</td>
<td></td>
</tr>
<tr>
<td>Comprehensive Examination</td>
<td></td>
</tr>
<tr>
<td>A written comprehensive examination in music must be passed prior to completion of the student’s culminating activity. This exam will be tailored to each student’s graduate course work. The comprehensive exam may be taken after the completion of 27 hours of required course work to include 6 credits of the core courses and the 3 hours each in music history and music theory.</td>
<td></td>
</tr>
<tr>
<td>Oral Examination</td>
<td></td>
</tr>
<tr>
<td>If needed, an oral examination relating to the written comprehensive examination or to the culminating activity may be requested at the discretion of the candidate’s Committee.</td>
<td></td>
</tr>
<tr>
<td>Culminating Activity</td>
<td></td>
</tr>
<tr>
<td>MUS 591 Project (3 cr) or MUS 593 Thesis (6 cr)</td>
<td>3-6</td>
</tr>
<tr>
<td>Total</td>
<td>33-36</td>
</tr>
</tbody>
</table>
**Master of Music, Performance**

**Course Number and Title**  
**Credits**

<table>
<thead>
<tr>
<th><strong>Graduation Requirements</strong></th>
</tr>
</thead>
<tbody>
<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>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Core Courses</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 503 Introduction to Music Research</td>
</tr>
<tr>
<td>MUS 510 Advanced Form and Analysis</td>
</tr>
<tr>
<td>MUS 557 Major Instrument Literature</td>
</tr>
<tr>
<td>Music History Elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Performance Courses</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>17-18</td>
</tr>
</tbody>
</table>
| MUS 563, 564 Major Instrument Pedagogy I, II, or additional Music History and/or Music Theory (6 cr)  
*MUS 465G, 466G Diction for Singers I, II (4 cr) or Additional Graduate level music elective (3 cr)  
MUS-PRV 5_4 Private lessons on major instrument (8 cr)  
(2 semesters minimum: private lessons must be taken each semester of residency) |

<table>
<thead>
<tr>
<th><strong>Performance Culminating Project</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-APL 546 Graduate Solo Performance Recital</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Performance Comprehensive Review</strong></th>
</tr>
</thead>
<tbody>
<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 taken toward the degree. After satisfactory completion of the written examination, the committee will meet with the student for an oral examination.</td>
</tr>
</tbody>
</table>

**Total**  
32-33

*Required of all vocal performance majors.

**Course Offerings**

See **Course Numbering and Terminology** for definitions.

**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-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.

**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 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)(F,S). Open to all, a campus and community choir that focuses on improving vocal technique and musicianship skills. No audition. Major choral works from all periods, public performances.

MUS-ENS 503 CHAMBER SINGERS (0-2-1)(F,S). Ten select singers specializing in vocal chamber music, emphasizing Medieval, Renaissance, and Baroque music. Active performance schedule both on campus and in the community. Membership by audition. PREREQ: Audition and/or PERM/INST.

MUS-ENS 505 MEISTERSINGERS (0-2-1)(F,S). Advanced 42-voice concert-touring chorus, highest standards, very active performing schedule. Membership by audition. PREREQ: Audition and/or PERM/INST.

MUS-ENS 511 VOCAL JAZZ CHOIR (0-2-1)(F,S). Designed to promote participation in and repertoire knowledge of literature for vocal jazz choirs. Public performances. PREREQ: Audition and/or PERM/INST.

MUS-ENS 512 WOMEN’S CHORALE (0-2-1)(F,S). Specializing in choral literature for treble voices from all time periods, teaching vocal technique, musicianship, and sight-reading. Public performances. Membership by minimal audition. Public performances 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)(F,S). Course explores European vocal and instrumental music from the Middle Ages, Renaissance and Baroque periods through performance. Graduate music students will be expected to assume leader 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)(F,S). Rehearsal 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 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). Designed to promote participation in and repertoire knowledge of literature for jazz bands. PREREQ: MUS-ENS 321G with an audition and/or PERM/INST.

MUS-ENS 540 PERCUSSION ENSEMBLE (0-2-1)(F,S). Rehearsal and performance with the University percussion ensemble. PREREQ: PERM/INST.

MUS-ENS 550 ORCHESTRA (0-5-1)(F,S). Rehearsal 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.
College of Arts and Sciences
Department of Music

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 duo-piano literature, rehearsal and performance problems, resulting in public performance each semester. PREREQ: PERM/INST.

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 or equivalent.

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 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 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 or MUS 101.

MUS 503 INTRODUCTION TO MUSIC RESEARCH (3-0-3)(F/S). This course will provide an introduction to the basic research literature pertinent to the student's major area of emphasis; an interpretation of research findings; and the means to develop skills and techniques needed for the writing of an extended research paper, thesis and/or dissertation, articles for publication and book/performance reviews.

MUS 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 FORM AND ANALYSIS (3-0-3)(S). Analysis of harmonic and formal structures of the larger binary and ternary forms; the sonata, the symphony, the concerto, Baroque forms. Theory elective.

MUS 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. Though secular works will be discussed, special emphasis will be placed on tracing the development of the Mass, Motet, and Requiem throughout history. Strategies for teaching and performing these works will be discussed. Special projects include programming for elementary, secondary, and collegiate choirs.

MUS 570 NEW DEVELOPMENTS IN MUSIC EDUCATION (3-0-3)(F/S).
Designed to acquaint the music specialist with recent ideas in music education, including major trends in curriculum, new methodology, music in integrated courses, and reports of major conferences and symposia.

MUS 571 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING MUSIC IN THE ELEMENTARY SCHOOL (3-0-3)(F/S). Designed for the general classroom teacher or music specialist, the course deals with old and new approaches to teaching music in the classroom, teaching materials, current research on problem singers, creative musical activities, and the development of music reading skills. PREREQ: MUS 374 or PERM/INST.

MUS 572 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.

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

Department of Physics

Chair: Charles Hanna
Multipurpose Classroom Facility, Room 420, Mail Stop 1570
Phone: (208) 426-3775
Fax: (208) 426-4330
E-mail: physics@boisestate.edu

Graduate Degrees Offered
- Doctor of Philosophy in Biomolecular Sciences
  (See Interdisciplinary Programs)
- Doctor of Philosophy in Materials Science and Engineering
  (See Interdisciplinary Programs)
- Master of Engineering in Materials Science and Engineering
  (See Interdisciplinary Programs)
- Master of Science in Materials Science and Engineering
  (See Interdisciplinary Programs)

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

See Course Numbering and Terminology for definitions.

PHYS — Physics

PHYS 512 INTERMEDIATE QUANTUM MECHANICS (4-0-4)(F).
Fundamentals, including properties and solutions of the Schroedinger equation, operators, angular momentum, electron spin, identical particles, 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 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 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 330. 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 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 515.

PHYS 557 CELLULAR AND MOLECULAR BIOPHYSICS (3-0-3)(F/S). The physics of cellular structure and function; membrane theories, diffusion and active transport, bioelectric phenomena; intracellular motion, thermodynamics. Macromolecular structure: energetics, intramolecular and intermolecular forces, protein folding, information storage, structure and physics of DNA and RNA. PREREQ: PHYS 307 or PERM/INST.

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.

PHYS 611 MOLECULAR BIOPHYSICS (3-0-3)(F/S). Introduction to the basic concepts and applications of molecular biophysics. Topics include energy and molecular forces in biological structures, conformations of biomolecules, polyelectrolytes in biological systems, transport processes, molecular motors, reaction rates, ions in solution, biological polymers and membranes. PREREQ: BMOL 602.

PHYS 612 CELL BIOPHYSICS AND IMAGING (3-3-4)(F/S). Biophysics and imaging of cellular structure and function. Topics include cell rigidity, motility, osmotic pressure, endocytosis, trafficking and diffusion in cytoplasm, ion channels and electrolyte balance, neural electrical signaling. Key techniques of imaging cells, including confocal, fluorescence, multi-photon, and phase-contrast microscopies, and special treatments and methods for live-cell imaging. PREREQ: BMOL 602.

PHYS 620 NANOBIOENGINEERING (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: BMOL 603.

PHYS 624 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 611 or PHYS 612.

PHYSICI — Physical Science

PHYS 501 BASIC PHYSICAL SCIENCE FOR SCIENCE TEACHERS (3-0-3). Selected concepts of matter and energy that are widely applicable toward understanding our physical environment. A one-semester course for non-science majors.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
COLLEGE of  ____ BUSINESS and ECONOMICS ____
College of Business and Economics

Dean: Kenneth Petersen, Ph.D.
Micron Business and Economics Building, Room 3131, Mail Stop 1600
Phone: (208) 426-1125
http://cobe.boisestate.edu/graduate

Associate Dean:
Diane Schooley-Pettis, Ph.D.
Phone: (208) 426-3110

Associate Dean: Graduate Studies and Executive Education:
Kirk Smith, Ph.D.
Phone: (208) 426-3116

Director: COBE Student Services Center:
Debi Mundell
Phone: (208) 426-3859

Graduate Degrees Offered
- Master of Business Administration
- Executive Master of Business Administration
- Executive Master of Business Operational Excellence
- Master of Science in Accountancy
- Master of Science in Accountancy, Taxation

General Information
The College of Business and Economics at Boise State University offers graduate programs in business administration, accountancy, and accountancy in taxation 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.

Master of Business Administration
Graduate Studies Director: Kirk Smith
Micron Business and Economics Building, Room 4101, Mail Stop 1600
Phone: (208) 426-3116
Fax: (208) 426-1135
http://cobe.boisestate.edu/graduate
E-mail: graduatebusiness@boisestate.edu

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 MBA for Working Professionals is for early to mid-career individuals with at least two years of significant work experience who wish to complete an MBA program at night while continuing to work full-time.
- The Online MBA is for early career individuals with at least two years of significant work experience who wish to complete an MBA program completely online.
- 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: Kirk Smith
Program Administrator: Trisha Stevens Lamb
Micron Business and Economics Building,
Room 4104, Mail Stop 1600
Phone: (208) 426-1120
E-mail: graduatebusiness@boisestate.edu
http://cobe.boisestate.edu/careertrackmba/

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.

Application and Admission Requirements

Successful applicants to the Career Track MBA full-time program typically bring at least a 3.3/4.0 GPA on their last 30 college credits and a GMAT score of 600 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.

English proficiency is required. International students must score 587/240/95 or better on the TOEFL exam or 6.5 on the IELTS exam.

No work experience is required for this program. 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 Career Track MBA website: http://cobe.boisestate.edu/graduate/

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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<tbody>
<tr>
<td><strong>Year 1 — Business Fundamentals</strong></td>
<td></td>
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<tr>
<td>MBA 501 Financial Reporting and Analysis</td>
<td>2</td>
</tr>
<tr>
<td>MBA 502 Fundamentals of Marketing</td>
<td>2</td>
</tr>
<tr>
<td>MBA 503 Managing Successful Projects: Planning and People</td>
<td>2</td>
</tr>
<tr>
<td>MBA 504 Managerial Accounting for Planning and Control</td>
<td>2</td>
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<tr>
<td>MBA 505 Strategy for Competitive Advantage</td>
<td>2</td>
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<tr>
<td>MBA 506 Discipline Integration: Live Cases</td>
<td>2</td>
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<tr>
<td>MBA 507 Statistical Thinking and Analysis</td>
<td>2</td>
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<tr>
<td>MBA 508 Corporate Financial Management</td>
<td>2</td>
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<tr>
<td>MBA 509 Data and Process Management</td>
<td>2</td>
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<tr>
<td>MBA 510 Creating Competitive Advantage Along the Supply Chain</td>
<td>2</td>
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<tr>
<td>MBA 511 Contemporary Issues in Business Law</td>
<td>2</td>
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<tr>
<td>MBA 513 Discipline Integration: Cases and Business Modeling</td>
<td>2</td>
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<tr>
<td>MBA 590 Practicum/Internship</td>
<td>3</td>
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<tr>
<td><strong>Year 2 — Business Applications</strong></td>
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<tr>
<td>MBA 515 Design Thinking</td>
<td>2</td>
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<tr>
<td>MBA 516 Managing Successful Projects: Project Scheduling and Execution</td>
<td>2</td>
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<tr>
<td>MBA 517 Managing Human Resources</td>
<td>2</td>
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<tr>
<td>MBA 518 Markets, Prices, and Economic Decision Making</td>
<td>2</td>
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<tr>
<td>MBA 519 Organizational Skills</td>
<td>2</td>
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<tr>
<td>MBA 520 Launching Business Initiatives</td>
<td>2</td>
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<tr>
<td>MBA 521 Economic Policy and Trade</td>
<td>2</td>
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<tr>
<td>MBA 523 Management and Oral Communication</td>
<td>2</td>
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<tr>
<td>MBA 524 Applied Capstone Project Start</td>
<td>2</td>
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<tr>
<td>MBA 525 Applied Capstone Project Finish</td>
<td>6</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>51</strong></td>
</tr>
</tbody>
</table>

Students will need to meet with Program Coordinator to coordinate summer internship.
**Master of Business Administration**  
**Part Time Program (Working Professionals)**

*Graduate Studies Director:* Kirk Smith  
*Program Administrator:* J. Renee Anchustegui  
Micron Business and Economics Building,  
Room 4105, Mail Stop 1600  
Phone: (208) 426-1126  
http://cobe.boisestate.edu/parttimemba/  
E-mail: graduatebusiness@boisestate.edu

### General Information

The MBA for Working Professionals is a part-time, cohort-based program designed for high-potential individuals with at least two years of significant work 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.

### Application and Admission Requirements

Successful applicants to the MBA for Working Professionals part-time program typically bring at least a 3.0/4.0 GPA on their last 60 college credits and a 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 7 years professional work experience and a 3.0 in the last 60 credits. Contact the program administrator for details.

English proficiency is required. Foreign students must score 587/240/95 or better on the TOEFL exam or 6.5 on the IELTS exam.

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 Working Professionals website.

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 on line. Details can be found on the MBA for Working Professionals website.

### Degree Requirements

Students enrolled in the MBA for Working Professionals program complete 50 semester credit-hours over three academic years (32-months). Courses are offered only at night and cohorts start each fall semester. The program emphasizes teamwork, business skills, project management, and the real world experience of commercializing intellectual property.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1 — Opportunity Assessment</strong></td>
<td></td>
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<tr>
<td>MBA 531 Strategic Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>MBA 540 Marketing Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MBA 542 Developing Successful Teams</td>
<td>1</td>
</tr>
<tr>
<td>MBA 543 Managing Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>MBA 544 Global Economics: Policy and Trade</td>
<td>3</td>
</tr>
<tr>
<td>MBA 548 Opportunity Assessment I</td>
<td>1</td>
</tr>
<tr>
<td>MBA 549 Successful Project Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 550 Opportunity Assessment II</td>
<td>1</td>
</tr>
<tr>
<td><strong>Year 2 — Feasibility and Planning</strong></td>
<td></td>
</tr>
<tr>
<td>MBA 551 Managerial Accounting's Role in Decision Management and Control</td>
<td>2</td>
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<tr>
<td>MBA 554 Managing People in Organizations</td>
<td>2</td>
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<tr>
<td>MBA 555 Organizational Issues</td>
<td>2</td>
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<tr>
<td>MBA 556 Feasibility and Planning I</td>
<td>1</td>
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<tr>
<td>MBA 558 Managers and the Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MBA 559 Issues in Supply Chain Management</td>
<td>3</td>
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<tr>
<td>MBA 560 Feasibility and Planning II</td>
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<tr>
<td>MBA 562 Business Modeling</td>
<td>3</td>
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<tr>
<td>MBA 565 Feasibility and Planning III</td>
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<tr>
<td><strong>Year 3 — Business Plan Development</strong></td>
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<tr>
<td>MBA 546 Strategic Management</td>
<td>3</td>
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<td>MBA 567 Business Plan Development</td>
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<td>MBA 568 Managerial Communication</td>
<td>3</td>
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<tr>
<td>MBA 569 Information Technology and Process Management</td>
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</tr>
<tr>
<td>MBA 570 Business Plan Capstone</td>
<td>1</td>
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<td><strong>Total</strong></td>
<td>50</td>
</tr>
</tbody>
</table>
Master of Business Administration
Part Time Program (Working Professionals)
Concurrent with University of Idaho Juris Doctorate

Graduate Studies Director: Kirk Smith
Program Administrator: J. Renee Anchustegui
Micron Business and Economics Building,
Room 4104, Mail Stop 1600
Phone: (208) 426-1126
http://cobe.boisestate.edu/parttimemba/
E-mail: graduatebusiness@boisestate.edu

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 MBA for Working Professionals Program, taking classes with others who are exclusively pursuing an MBA degree. This program is designed for early to mid-career individuals with at least two years of significant work experience who wish to create career options or move up more quickly in an organization.

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.

Application and Admission Requirements

Successful applicants to the MBA for Working Professionals part-time program typically bring at least a 3.0/4.0 GPA on their last 60 college credits and a GMAT score of 500 or better. We also accept GRE scores with minimum target scores of 145 in both the verbal and math categories. LSAT scores may also be accepted. A higher GPA can offset a lower test score and vice versa. Contact the Program Administrator for details.

English proficiency is required. If your first language is not English you must score 587/240/95 or better on the TOEFL exam or 6.5 on the IELTS exam.

Successful applicants have at least two years of significant work experience. Applicants are evaluated based on motivation level, prior academic performance, standardized test scores, managerial potential, reference letters, essays, and a personal interview. Details can be found on the MBA for Working Professionals website.

Applicants must demonstrate proficiency in math, statistics, economics, and financial accounting prior to enrolling in courses. Self-paced study materials and proficiency exams are available on line. Details can be found on the MBA for Working Professionals website.

Degree Requirements

Students enrolled in the MBA for Working Professionals Program complete 50 semester credit-hours over four academic years (44 months). Courses are offered only at night and cohorts start each fall semester.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MBA 531 Strategic Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>MBA 540 Marketing Strategy</td>
<td>3</td>
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<tr>
<td>MBA 542 Developing Successful Teams</td>
<td>1</td>
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<tr>
<td>MBA 543 Managing Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>MBA 544 Global Economics: Policy and Trade</td>
<td>3</td>
</tr>
<tr>
<td>MBA 546 Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 549 Successful Project Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 551 Managerial Accounting’s Role in Decision Management and Control</td>
<td>2</td>
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<tr>
<td>MBA 554 Managing People in Organizations</td>
<td>2</td>
</tr>
<tr>
<td>MBA 555 Organizational Issues</td>
<td>2</td>
</tr>
<tr>
<td>MBA 559 Issues in Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>MBA 562 Business Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MBA 567 Business Plan Development</td>
<td>4</td>
</tr>
<tr>
<td>MBA 568 Managerial Communication</td>
<td>3</td>
</tr>
<tr>
<td>Approved Directed Electives from UI School of Law</td>
<td>12</td>
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<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>
College of Business and Economics
Master of Business Administration

Master of Business Administration Online

Graduate Studies Director: Kirk Smith
Program Administrator: J. Renee Anchustegui
Phone: (855) 290-3840
E-mail: OnlineMBA@boisestate.edu
http://cobe.boisestate.edu/onlinemba/

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 short 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.

Application and Admission Requirements

Successful applicants to the Online MBA program typically bring at least a 3.0/4.0 GPA on their last 60 college credits and a 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 scores are required for applicants with at least seven years professional work experience and a 3.0/4.0 GPA in their last 60 credits of college coursework. Contact the program administrator for details. English proficiency is required. Foreign students must score 587/240/95 or better on the TOEFL exam or 6.5 on the IELTS exam.

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.

<table>
<thead>
<tr>
<th>Master of Business Administration Online Program</th>
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</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
</tr>
<tr>
<td>BUSMBA 500 Introduction and Business Foundations</td>
</tr>
<tr>
<td>BUSMBA 501 Design Thinking and Strategic Management</td>
</tr>
<tr>
<td>BUSMBA 505 Marketing Strategy</td>
</tr>
<tr>
<td>BUSMBA 510 People and Organizations</td>
</tr>
<tr>
<td>BUSMBA 515 Corporate Finance</td>
</tr>
<tr>
<td>BUSMBA 520 Global Economics: Policy and Trade</td>
</tr>
<tr>
<td>BUSMBA 525 Managerial Accounting</td>
</tr>
<tr>
<td>BUSMBA 530 Managerial Communication</td>
</tr>
<tr>
<td>BUSMBA 535 Information Technology and Business Alignment</td>
</tr>
<tr>
<td>BUSMBA 540 Managing Successful Projects</td>
</tr>
<tr>
<td>BUSMBA 545 Legal Issues in Business</td>
</tr>
<tr>
<td>BUSMBA 550 Operations and Supply Chain Management</td>
</tr>
<tr>
<td>BUSMBA 555 Business Plan Development</td>
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<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

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, and essays. Details can be found on the Online MBA website.

Applicants must demonstrate proficiency in Microsoft Excel, statistics, economics, and financial accounting prior to enrolling in courses. Self-paced study materials and proficiency exams are available online.
Executive Master of Business Administration

Graduate Studies Director: Kirk Smith
Program Information: Cheryl Maille
Micron Business and Economics Building, Room 4103, Mail Stop 1600
Phone: (208) 426-4034
E-mail: emba@boisestate.edu
http://cobe.boisestate.edu/emba/

General Information

The Executive MBA program is designed for high-potential individuals with at least six years of managerial work experience. The 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 but quite challenging.

Application and Admission Requirements

Successful applicants to the Executive MBA program typically bring at least six years of managerial experience and a work history of increasing responsibility. An undergraduate degree is required and a letter of support from the applicant’s direct supervisor is also required in place of GMAT or GRE test scores.

Applicants are evaluated based on motivation level, prior academic performance, managerial experience, reference letters, essays, and a personal interview. The process favors those who can contribute to the education of all participants. Details can be found on the Executive MBA website.

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.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>First Year Courses</strong></td>
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<tr>
<td>EMBA 511 Business Perspectives</td>
<td>2</td>
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<tr>
<td>EMBA 512 Assessing Business Opportunities</td>
<td>5</td>
</tr>
<tr>
<td>EMBA 513 Creating Competitive Advantage I</td>
<td>3</td>
</tr>
<tr>
<td>EMBA 514 Creating Competitive Advantage II</td>
<td>3</td>
</tr>
<tr>
<td>EMBA 515 Fostering Innovation</td>
<td>4</td>
</tr>
<tr>
<td>EMBA 516 Leadership and Teamwork Skills</td>
<td>2</td>
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<tr>
<td>EMBA 517 Issues in Leadership I</td>
<td>1</td>
</tr>
<tr>
<td><strong>Second Year Courses</strong></td>
<td></td>
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<tr>
<td>EMBA 521 Business in a Global Environment</td>
<td>5</td>
</tr>
<tr>
<td>EMBA 522 Rescuing Distressed Business Units</td>
<td>2</td>
</tr>
<tr>
<td>EMBA 523 Management of Products and Services</td>
<td>2</td>
</tr>
<tr>
<td>EMBA 524 Partnerships, Acquisitions, and Divestitures</td>
<td>2</td>
</tr>
<tr>
<td>EMBA 525 Issues in Leadership II</td>
<td>1</td>
</tr>
<tr>
<td><strong>Culminating Activity (Second Year)</strong></td>
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<tr>
<td>EMBA 591 Project</td>
<td>8</td>
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<tr>
<td><strong>Total</strong></td>
<td>40</td>
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</table>
Executive Master of Business Operational Excellence

Graduate Studies Director: Kirk Smith
Program Information: Brian O’Morrow
Micron Business and Economics Building,
Room 4101, Mail Stop 1600
Phone: (208) 426-3168
http://cobe.boisestate.edu/emboe
E-mail: emboe@boisestate.edu

General Information

The Executive Master of Business Operational Excellence (EMBOE) program is designed for high-potential individuals with at least five years of professional operations work experience. Students are typically mid-career individuals aspiring to senior operations positions or to positions responsible for operational efficiency throughout an organization.

The curriculum provides a solid grounding in lean processes, statistical analysis, change management, and methods to sustain operational gains. Students may optionally complete their six sigma black belt as part of the program. Courses are co-taught by faculty and trainers from the Kaizen Institute. Work projects are integrated into the curriculum to provide instant application and immediate return on investment.

The pace is reasonable for those working full time but quite challenging. The program lasts 12 months. Classroom attendance is required for five weeks, with approximately two months between each week of classes. Homework assignments and projects are due during intervals between class weeks. Week three is conducted in Japan so that participants might benchmark their own organizations against the very best. All other class sessions are conducted on campus at Boise State University.

Application and Admission Requirements

Successful applicants to the EMBOE program typically bring at least five years of operations experience and a work history of increasing responsibility. An undergraduate degree is required and a letter of support from the applicant’s direct supervisor is also required in place of GMAT or GRE test scores.

Applicants are evaluated based on motivation level, prior academic performance, work experience, and a personal interview. The process favors those who can contribute to the education of all participants. Details can be found on the EMBOE website.

Degree Requirements

Students enrolled in the EMBOE program complete 30 semester credit-hours over a 12 month period.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MBOE 501 DNA of Excellence</td>
<td>3</td>
</tr>
<tr>
<td>MBOE 502 Statistical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>MBOE 511 Financial Measurement</td>
<td>3</td>
</tr>
<tr>
<td>MBOE 512 Design and Structure of Processes, Products, and Services</td>
<td>3</td>
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<tr>
<td>MBOE 521 Improvement Tools and Skills</td>
<td>3</td>
</tr>
<tr>
<td>MBOE 522 Critical Components of Change Management</td>
<td>3</td>
</tr>
<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>
</tr>
<tr>
<td>MBOE 692 Capstone: Change Management as a Strategic Initiative</td>
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<td><strong>Total</strong></td>
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Course Offerings

See Course Numbering and Terminology for definitions.

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/Fail.) 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, employment 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 projects 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 550 OPERATIONS AND SUPPLY CHAIN MANAGEMENT (4-0-4)(F/S/SU). 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. Includes operations modeling project in industry sector of student's choosing. PRE/COREQ: BUSMBA 501.


ECON — Economics

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

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

ECON 440G HEALTH ECONOMICS (3-0-3)(S). 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 will also be made to the health care systems of other nations. PREREQ: ECON 201 and ECON 202 or PERM/INSTR.

ECON 480G SEMINAR IN INTERNATIONAL ECONOMICS (3-0-3)(F/S). An in-depth study of a particular subject of restricted scope in international economics. Students will survey the literature, discuss assigned topics, and prepare and present research papers. Consult the Boise State Schedule of Classes for specific selection offered. Seminar may be repeated. PREREQ: ECON 201 and ECON 202 or PERM/INSTR.

ECON 560 ECONOMICS OF PUBLIC POLICY (3-0-3)(Intermittently). 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: MBA 514.
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 RESCUEING 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 502 FUNDAMENTALS OF MARKETING (2-0-2)(F). 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: PLANNING AND PEOPLE (2-0-2)(F). Introduces the front-end issues of project management including team formation, communication strategies, conflict management, project constraints, risk analysis, and tools for project planning. PREREQ: ADM/PROG.

MBA 504 MANAGERIAL ACCOUNTING FOR PLANNING AND CONTROL (2-0-2)(F). 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 505 STRATEGY FOR COMPETITIVE ADVANTAGE (2-0-2)(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 (2-0-2)(F). Integrates current course topics via application to operating businesses. PREREQ: ADM/PROG.

MBA 507 STATISTICAL THINKING AND ANALYSIS (2-0-2)(S). Introduces techniques for transforming data into information decision-makers can use. Focuses on graphically presenting statistical data, using probability to measure uncertainty, sampling techniques, tools of statistical inference, time-series and related forecasting methods. PREREQ: ADM/PROG.

MBA 508 CORPORATE FINANCIAL MANAGEMENT (2-0-2)(S). 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 501, MBA 504.

MBA 509 DATA AND PROCESS MANAGEMENT (2-0-2)(S). Explores state of the art approaches to capturing, storing, retrieving, and representing enterprise data. Considers process management approaches for enhancing efficiency, insuring compliance, and managing to I/O and certification standards. PREREQ: ADM/PROG.

MBA 510 CREATING COMPETITIVE ADVANTAGE ALONG THE SUPPLY CHAIN (2-0-2)(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 CONTEMPORARY ISSUES IN BUSINESS LAW (2-0-2)(S). Legal reasoning and the legal system, agency and business associations, torts, contracts, intellectual property, employment law, sales, and product liability. Emphasizes the implication of these legal issues for business decision-making. PREREQ: ADM/PROG.

MBA 513 DISCIPLINE INTEGRATION: CASES AND BUSINESS MODELING (2-0-2)(S). Further application of current course topics to a variety of actual businesses. Focus shifts to advanced spreadsheet modeling of business opportunities, processes, and projected returns. PREREQ: ADM/PROG.

MBA 515 DESIGN THINKING (2-0-2)(F). Introduces 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. PREREQ: ADM/PROG.

MBA 516 MANAGING SUCCESSFUL PROJECTS: PROJECT SCHEDULING AND EXECUTION (2-0-2)(F). Hands-on experience with the tools of project management including PERT/Critical Path, resource utilization, project monitoring and tracking, and critical chain analysis. PREREQ: ADM/PROG, MBA 503.

MBA 517 MANAGING HUMAN RESOURCES (2-0-2)(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. PREREQ: ADM/PROG.

MBA 518 MARKETS, PRICES, AND ECONOMIC DECISION MAKING (2-0-2)(F). 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. PREREQ: ADM/PROG.
MBA 519 ORGANIZATIONAL SKILLS (2-0-2)(F). Application of behavioral science principles to help understand manager and employee reactions in an organizational setting. Focuses on team-building, motivation, leadership, problem-solving, negotiation, and self-management. PREREQ: ADM/PROG.

MBA 520 LAUNCHING BUSINESS INITIATIVES (2-0-2)(F). 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 521 ECONOMIC POLICY AND TRADE (2-0-2)(S). 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 518.

MBA 523 MANAGEMENT AND ORAL COMMUNICATION (2-0-2)(S). A hands-on introduction to managerial oral communication including informal exchanges, elevator pitches, meetings, and persuasive formal presentations. PREREQ: ADM/PROG.

MBA 524 APPLIED CAPSTONE PROJECT START (2-0-2)(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 using collaborative, structured innovation processes. Defines what constitutes a sustainable competitive strategy. 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.

MBA 542 DEVELOPING SUCCESSFUL TEAMS (1-0-1)(F). Introduces team formation and group dynamics issues and strategies. PREREQ: ADM/PROG.

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 I (1-0-1)(S). Small groups develop an initial pre-market estimate of the revenue potential for a unique IP-based commercialization opportunity. PREREQ: ADM/PROG, MBA 542.

MBA 549 SUCCESSFUL PROJECT MANAGEMENT (3-0-3)(S). 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 550 OPPORTUNITY ASSESSMENT II (1-0-1)(SU). Small groups complete their pre-market estimate of the revenue potential for a unique IP-based commercialization opportunity. PREREQ: ADM/PROG, MBA 548.

MBA 551 MANAGERIAL ACCOUNTING’S ROLE IN DECISION MANAGEMENT AND CONTROL (2-0-2)(F). 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.

MBA 554 MANAGING PEOPLE IN ORGANIZATIONS (2-0-2)(F). An applied approach to managing people in organizations. Topics include 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 555 ORGANIZATIONAL ISSUES (2-0-2)(F). Application of behavioral science principles and skills in an organizational setting. Emphasis is on an interactionist perspective (individual, group, and organizational dynamics), towards understanding behavior in organizations. Topics include ethical decision making and reasoning, understanding people, negotiation and conflict, and change management. PREREQ: ADM/PROG or PERM/INST.


MBA 558 MANAGERS AND THE LEGAL ENVIRONMENT OF BUSINESS (3-0-3)(S). 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 resolve finance, supply chain, and legal issues relative to their commercialization opportunity. 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 565 FEASIBILITY AND PLANNING III (1-0-1)(SU). Teams develop an execution timeline for their commercialization opportunity. Includes an examination of risks, assumptions, and potential partnerships. PREREQ: ADM/PROG, MBA 560.

MBA 567 BUSINESS PLAN DEVELOPMENT (4-0-4)(F). Teams develop full business plans for their chosen IP commercialization project. PREREQ: ADM/PROG, MBA 565.

MBA 568 MANAGERIAL COMMUNICATION (3-0-3)(S). A hands-on introduction to managerial oral communication including informal exchanges, elevator pitches, meetings, and persuasive formal presentations. Emphasis placed on team-oriented communication tactics and change communication strategies. PREREQ: ADM/PROG or PERM/INST.

MBA 569 INFORMATION TECHNOLOGY AND PROCESS MANAGEMENT (3-0-3)(S). Explores state of the art approaches to capturing, storing, retrieving, and representing enterprise data. Introduction to management of the IT function. Introduction to process management approaches for enhancing efficiency, insuring compliance, and managing to ISO and certification standards. PREREQ: ADM/PROG or PERM/INST.

MBA 570 BUSINESS PLAN CAPSTONE (1-0-1)(S). Teams present their IP commercialization projects to gain seed funding. PREREQ: ADM/PROG, MBA 567. COREQ: MBA 568.
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. 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.

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.

### Application and Admission Requirements

1. Successful applicants to the MSA or MSAT program typically bring at least a 3.0/4.0 or better GPA and a GMAT score of 500 or better. A higher GPA may offset a slightly lower GMAT score and vice versa.
2. Fast Track admission waives the GMAT test requirement for undergraduate accounting majors who graduated from a regionally accredited institution and achieved a 3.5/4.0 or better GPA in their 300 and 400 level accounting courses and a 3.3/4.0 or better cumulative GPA.
3. The GMAT exam may be waived for applicants who are currently CPAs, Certified Management Accountants (CMA), or Certified Internal Auditors (CIA). Applicants should request a letter be sent directly to Graduate Admission and Degree Services from the appropriate state board or national organization verifying their certification status.
4. English proficiency is required. Foreign 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 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 scores, managerial potential, reference letters, and essays. Details can be found on the COBE graduate programs website: http://cobe.boisestate.edu/graduate/

Master of Science in Accountancy

Graduate Studies Director: Kirk Smith
Program Administrator: Trisha Stevens Lamb
Micron Business and Economics Building,
Room 4101, Mail Stop 1600
Phone: (208) 426-3116
E-mail: graduatebusiness@boisestate.edu
http://cobe.boisestate.edu/graduate

Degree Requirements

<table>
<thead>
<tr>
<th>Master of Science in Accountancy</th>
<th>Credits</th>
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<tbody>
<tr>
<td>The MSA degree requires a minimum of 30 hours of study.</td>
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Accountancy/Taxation Courses 21-30

Select From:

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<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACCT 502 Advanced Tax Topics (3 cr)</td>
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<td>ACCT 505 Advanced Auditing (3 cr)</td>
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<td>ACCT 510 Advanced Financial Reporting (3 cr)</td>
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<td>ACCT 520 Tax Research (3 cr)</td>
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<td>ACCT 533 Corporate Tax Law II (3 cr)</td>
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<td>ACCT 550 Internal and Information Systems Audit (3 cr)</td>
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<td>ACCT 560 Income Taxation of Trusts and Estates (3 cr)</td>
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<td>ACCT 590 Practicum/Internship (3 cr)</td>
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Non-Accountancy Electives 0-9

Electives chosen from non-accountancy graduate courses.

Total 30

Non-Accountancy Electives must be approved by the student’s graduate advisor.

Master of Science in Accountancy, Taxation

Concurrent Juris Doctorate Program

Graduate Studies Director: Kirk Smith
Program Administrator: Trisha Stevens Lamb
Micron Business and Economics Building,
Room 4101, Mail Stop 1600
Phone: (208) 426-3116
E-mail: graduatebusiness@boisestate.edu
http://cobe.boisestate.edu/graduate

General Information

Students may elect to enroll concurrently in our MSAT program and the University of Idaho’s 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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<tr>
<th>Master of Science in Accountancy, Taxation</th>
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<tr>
<td>The MSAT degree requires a minimum of 30 hours.</td>
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Taxation Courses 15-30

Selections from:

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Accountancy Electives 0-15

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Subtotal Taxation and Accountancy Classes 21-30

continued
Course Offerings
See Course Numbering and Terminology for definitions.

ACCT — Accountancy

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

ACCT 505 ADVANCED AUDITING (3-0-3)(F/S). 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.

ACCT 510 ADVANCED FINANCIAL REPORTING (3-0-3)(F/S). Topics include financial reporting for segment and interim reporting, international financial reporting including foreign currency transactions and translation, partnerships, estates and trusts, insolvency and SEC reporting. PREREQ: ACCT 308.

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

ACCT 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: ACCT 314 or PERM/INST.


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

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

ACCT 520 TAX RESEARCH (3-0-3)(F/S). Instruction in all aspects of tax research including legislative, administrative and judicial sources; major tax services, Internet-based tax research libraries; writing and negotiation skills.

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

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

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

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

ACCT 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.

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

ACCT 550 INTERNAL AND INFORMATION SYSTEMS AUDIT (3-0-3)(S). Upon completion of the course, the student should have an understanding of the role of the internal and information systems audit functions, the standards by which audits are conducted, the general risks faced by any entity and its information system, the purpose of controls, the procedures and skills needed to perform audits, and be familiar with current issues facing audit professionals. Students will assume leadership roles with respect to group and team assignments. Students can only take ACCT 450 OR ACCT 550, not both. PREREQ: ACCT 350.

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

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

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

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

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

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
COLLEGE of
EDUCATION
College of Education

Dean: Richard Osguthorpe, Ph.D.
Education Building, Room 705, Mail Stop 1700
Phone: (208) 426-1611
Fax: (208) 426-4365
http://education.boisestate.edu/graduate.htm

Associate Dean: Keith Thiede, Ph.D.
Phone: (208) 426-1278

General Information
The College of Education is composed of six academic departments offering 2 doctoral degrees, 13 master's degrees, and 7 graduate certificates:

- College of Education
  - Doctor of Education in Curriculum and Instruction
- Department of Bilingual Education
  - Master of Education in Bilingual Education
  - Master of Education in English as a Second Language
- Department of Counselor Education
  - Master of Arts in Counseling
  - Graduate Certificate in Addiction Studies
- Department of Curriculum, Instruction, and Foundational Studies
  - Education Specialist in Executive Educational Leadership
  - Master of Education in Educational Leadership
  - Master of Science in STEM Education
  - Graduate Certificate in Secondary/K-12 Teaching
- Department of Educational Technology
  - Doctor of Education in Educational Technology
  - Master of Educational Technology
  - Master of Science in Educational Technology
  - Graduate Certificate in Online Teaching
  - Graduate Certificate in School Technology Coordination
  - Graduate Certificate in Technology Integration Specialist

Department of Literacy
- Master of Arts in Education, Literacy

Department of Special Education and Early Childhood Studies
- Master of Arts in Early Childhood Studies
- Master of Education in Early Childhood Studies
- Master of Arts in Special Education
- Master of Education in Special Education
- Graduate Certificate in Consulting Teacher Endorsement

Application and Admission Requirements
Prospective students may apply for admission at any time. However, in order to qualify for degree-seeking status, the following application materials must be received by June 30 for the fall semester, or December 1 for the spring semester. An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations).

Advisors
The name of a faculty member who will serve as temporary advisor will be indicated in the letter of acceptance to the applicant. Candidates should contact this faculty member as soon as possible to plan a program of study and complete the Program Development form. Credits taken prior to such planning are subject to the review and approval of the advisor and the Program Coordinator for that particular program or program emphasis.

Graduate Assistantships
Graduate Assistantships are available in each department in the College of Education. Awards may consist of a stipend and a fee waiver. In addition, non-resident tuition is waived for any nonresident student receiving an assistantship award. Applications must be received in the department by March 1st of each year. Typical assignments include research assistants, teaching assistants, or assignments related to specific areas. Graduate assistantships are awarded for one year and may be renewed for one additional year.
Doctor of Education in Curriculum and Instruction

Program Coordinator: Keith Thiede
Education Building, Room 722, Mail Stop 1746
Phone: (208) 426-1731
Fax: (208) 426-4408
E-mail: eddoctorate@boisestate.edu

Participating Departments
- Bilingual Education
- Counselor Education and Supervision
- Curriculum, Instruction, and Foundational Studies
- Educational Technology
- Literacy
- Special Education and Early Childhood Studies

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

Application Requirements
Prospective students may apply for admission at any time. However, in order to qualify for degree-seeking status the following application materials must be received by June 30 for fall semester, or December 1 for the spring semester. An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations).

1. Official scores from the verbal, quantitative, and analytical reports of the Graduate Record Examination. The GRE must have been taken within seven years of the application date.
2. Minimum GPA of 3.0 on a 4.0 scale for all previous graduate work; and,
3. Official transcripts for all course work indicating the completion of a Master's degree or the functional equivalent.

Admission Requirements
1. A letter of application which includes
   - A description of professional experiences and the relevance of those experiences to doctoral study in education
   - A statement of career goals
   - A statement of interest in a particular 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)
2. A current resume or vitae.
3. Three letters of reference attesting to the applicant’s commitment to doctoral study in education, professional effectiveness, potential for influencing education, scholarly abilities and dispositions, personal and professional integrity, and any other information that will help the selection committee make an informed decision.
4. A writing sample (e.g., a master's thesis, grant application, or class paper that includes a synthesis of literature).

The Doctoral Management Committee will review the materials submitted, make them available to other interested graduate faculty for analysis, and may schedule interviews with applicants. After arriving at a decision for each candidate, the committee recommends to the Graduate College Dean those who should be admitted. The application deadlines are March 1st for summer and fall semesters, and October 1st for spring semester.

Transfer Credits
Doctor of Education students may transfer up to 21 credits, 15 of which may be taken at other institutions and apply those credits toward a graduate degree. However, the courses must be consistent with the program of study planned by the student and the supervisory committee. In addition, the student must have taken the courses at an accredited institution and must have received—in each course—a grade no lower than B.

Master’s Credits Applied Toward the Doctor of Education
Credits earned for a master's degree, excluding credits for Thesis or Project, may be applied to the requirements of the Doctor of Education degree program as part of the 21 transfer credits allowed at the discretion of the student's doctoral committee. Ordinarily, these credits would be within the seven-year time limit and would constitute no more than one-third of the total credits required for the doctorate.

Graduate Assistantships
Any student qualifying for admission may apply for one of a limited number of graduate assistantships offered each year. Awards consist of a stipend and fee waiver for fall and spring semesters, plus a six-credit fee waiver for summer school. Graduate assistantships are awarded on an annual basis and must be renewed yearly by reapplying for the position. In all cases GAs must register for a minimum of 9 credits during the regular academic year. To be considered, applications must be submitted to the College of Education Graduate Office (Education 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.

Program and Dissertation Advisors
Students will have program and dissertation advisors as they progress towards their degree. It is recommended that students determine a program advisor and committee members no later than the spring semester of the first year of study. The choice of advisor will be based on the shared scholarly interests and compatible educational philosophies of student and faculty. Students may change advisors, and it is not uncommon for students to have a program advisor and then when admitted to candidacy switch to a different advisor for the dissertation.
Degree Requirements

The program has five components: Curriculum and Instruction, 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.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Core Requirements</td>
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<tr>
<td>EDU 610 The American Culture and the Context of Schooling</td>
<td>3</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>
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<tr>
<td>Research Core</td>
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<tr>
<td>EDU 555 Analysis of Variance in Educational Research or EDU 556 Multiple Regression of Educational Data</td>
<td>3</td>
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<tr>
<td>EDU 650 Analysis of Research Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>EDU 652 Quantitative Approaches to Research</td>
<td>3</td>
</tr>
<tr>
<td>EDU 653 Qualitative Approaches to Research</td>
<td>3</td>
</tr>
<tr>
<td>Cognate Area*</td>
<td>32</td>
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<tr>
<td>EDU 691 Doctoral Comprehensive Examination</td>
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<td>Dissertation</td>
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<tr>
<td>EDU 693 Dissertation</td>
<td>9</td>
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<td>66</td>
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</table>

*A ‘cognate’ is an area of specialization. Approved cognates are bilingual education, counselor education and supervision, curriculum and instruction, early childhood education, educational leadership, educational technology, kinesiology, literacy, mathematics education, special education. Listings of the courses available to fulfill the 32 credits required of each cognate area may be found at: http://education.boisestate.edu/doctorateineducation/areas-of-specialization-cognates/.

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

- Research design (ED-CIFS 503 or equivalent) must be completed prior to taking EDU 650 Analysis of Research Perspectives and EDU 653 Qualitative Approaches to Research.
- Beginning statistics (KINES 552 or equivalent) must be completed prior to admission to the program.
- Foundations of curriculum (ED-CIFS 536 or equivalent) must be completed prior to taking EDU 662 Curriculum.
- Instructional theory or educational psychology (ED-CIFS 537 or ED-CIFS 501 or equivalents) must be completed prior to taking EDU 660 Learning and Cognition.
- Philosophy of education or foundations of education (ED-CIFS 505 or equivalent) must be completed prior to taking EDU 610 The American Culture and the Context of Schooling.

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 these 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 policymaking 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 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 662.

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.

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

Chair: Stan Steiner  
Education Building, Room 503, Mail Stop 1725  
Phone: (208) 426-2862  
E-mail: stansteiner@boisestate.edu

Graduate Degrees Offered

- Master of Education in Bilingual Education
- Master of Education in English as a Second Language

General Information

The Department of Bilingual Education offers a master of education degree in bilingual education (Spanish-English) and in English as a second language. These degree programs provide additional training for teachers who work with, or are preparing to work with English language learners. The programs meet State of Idaho standards for bilingual education and ESL endorsements. ESL participants are required to have at least 4 credit hours of a foreign language. This program does not provide foreign language classes.

Bilingual Education

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 four major goals of bilingual education are as follows:

- teach English to non-English-speaking students or students learning English;
- maintain the students at grade level in the content subjects while they are learning English;
- ensure students meet the same rigorous academic standards that all other students meet; and
- prepare them to meet requirements so that they can graduate from high school on time.

English as a Second Language (ESL)

The primary purpose of English as a Second Language (ESL) is to teach students English, enabling them to succeed in schools where English is the language of instruction. ESL 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.

Program Requirements

The courses 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 constructive/developmental process.
2. The acquisition through application of content knowledge is essential.
3. Teaching is a collegial act and required collaboration.
4. Education is essentially and democratic, ergo political act.
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.

An electronic written assessment will be provided to new students in the M.Ed. in Bilingual Education during the first weeks of classes. Students will have twenty minutes to complete the essay. A final electronic written assessment will be made available during the first weeks of classes to all students completing the M.Ed. in Bilingual Education.

Special Notice

Cost per 3-credit-hour class is the same for Idaho residents and non-residents: $957.
### Master of Education in Bilingual Education

Graduate Program Coordinator: Stan Steiner  
Education Building, Room 503, Mail Stop 1725  
Phone: (208) 426-2862  
E-mail: stansteiner@boisestate.edu

#### Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<tr>
<td>ED-CIFS 506 Issues in Education</td>
<td>4</td>
</tr>
<tr>
<td>ED-BLESL 500 The Bilingual/ESL Curriculum: Creating, Planning, Implementation</td>
<td>3</td>
</tr>
<tr>
<td>ED-BLESL 501 Culturally Diverse Learners</td>
<td>3</td>
</tr>
<tr>
<td>ED-BLESL 502 Methods of Teaching ESL: Maximizing Innovative Pedagogical Approaches to Teaching ESL</td>
<td>3</td>
</tr>
<tr>
<td>ED-BLESL 503 Applied Theoretical Foundations of Bilingual Education/ESL and Multiculturalism</td>
<td>3</td>
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<tr>
<td>ED-BLESL 504 Literacies for Bilingual and English Language Learners</td>
<td>3</td>
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<tr>
<td>ED-BLESL 505 Multicultural Literature: Promoting Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>ED-BLESL 506 Parental Involvement: Building a Community of Bilingual/ESL Learners</td>
<td>3</td>
</tr>
<tr>
<td>ED-BLESL 508 Advanced Theories of Second Language Acquisition or ED-LTCY 548 Psycholinguistics and Literacy</td>
<td>3</td>
</tr>
<tr>
<td>ED-BLESL 509 Field Experience in Bilingual Classrooms</td>
<td>1</td>
</tr>
<tr>
<td>ED-BLESL 511 Contemporary Issues in Bilingual Education/ESL</td>
<td>2</td>
</tr>
<tr>
<td>ED-BLESL 692 Capstone Course (P/F)</td>
<td>2-3</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>33-34</strong></td>
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</tbody>
</table>

This master's program is for both elementary and secondary teachers 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.

### Master of Education in English as a Second Language

Graduate Program Coordinator: Stan Steiner  
Education Building, Room 503, Mail Stop 1725  
Phone: (208) 426-2862  
E-mail: stansteiner@boisestate.edu

#### Degree Requirements

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<td><strong>Total</strong></td>
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</tbody>
</table>

This master's program is for both elementary and secondary teachers P-12. The ESL 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 ESL program does not qualify the candidate for state certification. However, these courses may be used toward certification renewal or endorsement.
Course Offerings

See Course Numbering and Terminology for definitions.

ED-BLESL — Education-Bilingual Education

ED-BLESL 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-BLESL 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-BLESL 502 METHODS OF TEACHING ESL: MAXIMIZING INNOVATIVE PEDAGOGICAL APPROACHES TO TEACHING ESL (3-0-3)(F/S). Pedagogy of teaching ESL that will maximize language and literacy acquisition. Students will learn how to develop content subject material that is pedagogically responsible to English language learners and culturally diverse students by learning pedagogical scaffolds that place students at the center of the learning process.

ED-BLESL 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 programs that demonstrate the characteristics of successful bilingual, ESL, and multicultural classrooms (i.e., teachers’ ability to articulate pedagogy used in the classroom).

ED-BLESL 504 LITERACIES FOR BILINGUAL AND ENGLISH LANGUAGE LEARNERS (3-0-3)(SU). For teachers in classrooms designated as Spanish and English bilingual 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-BLESL 505 APPLIED LINGUISTICS: NURTURING COMMUNICATIVE COMPETENCE (3-0-3)(SU). A course to assist teachers in learning the differences and similarities between the Spanish and English languages in order to teach English as a language of instruction and to promote communicative competence among English language learners. Explorations of the intersections of language, with race, class, gender and ethnicity.

ED-BLESL 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-BLESL 507 PARENTAL INVOLVEMENT: BUILDING A COMMUNITY OF BILINGUAL/ESL LEARNERS (3-0-3)(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-BLESL 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-BLESL 509 FIELD EXPERIENCE IN BILINGUAL CLASSROOMS (0-3-1)(F/S). A partnership teaching experience with a bilingual teacher in an exemplary bilingual classroom. Participants spend a minimum of fifty clock hours working side by side with the host teacher.

ED-BLESL 510 FIELD EXPERIENCE IN ESL CLASSROOMS (0-3-1)(F/S). A partnership teaching experience with an English as a Second Language teacher in an exemplary ESL classroom. Participants spend a minimum of fifty clock hours working side by side with the host teacher.

ED-BLESL 511 CONTEMPORARY ISSUES IN BILINGUAL EDUCATION/ESL (2-0-2)(F/S/SU). Current issues and their political ramifications in the fields of bilingual/multicultural education, and English as a second language. Critique of current trends in education and creating an awareness of how teachers can enhance their advocacy for students, parents and stakeholders.

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

Chair: Diana Doumas
Education Building, Room 610, Mail Stop 1721
Phone: (208) 426-1219
E-mail: counseloreducation@boisestate.edu

Graduate Degrees Offered
- Master of Arts in Counseling
- Graduate Certificate in Addiction Studies

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 Licenses’ criteria for licensure as a professional counselor. The school program is 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.

Application Requirements
An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations).

Admission Requirements
Students must apply for admission to and be accepted by the Counseling Program Admissions Committee. A new cohort year begins each fall, and enrollment is competitive. All admission materials must be submitted by February 1:
- Letter of application describing your professional experiences as they support your desire to be a school or addictions related counselor, specific career goals, and reasons for your interest in this program. Include in the letter your vision about the role of a school or addictions related counselor;
- Up-to-date resume or Curriculum Vitae;
- Post-secondary transcripts (Applicants should order these ahead of time to meet the February 1st deadline);
- Three professional letters of reference supporting your qualifications for a counseling program and for graduate work (Note that letter writers must submit their own letters to the online system).

An on-campus pre-admission interview and writing sample are required of all finalists. When attendance is an extreme hardship for the applicant, special arrangements may be made (such as a conference telephone interview or alternate site interview). No other pre-admission testing is required. A criminal background check prior to placement in a school setting is required of all students, and an Adjudication statement is required of each student upon acceptance and at several check points in the program.

Master of Arts in Counseling
Graduate Program Coordinators: Bobbie Birdsall, April Shottelkorb
Education Building, Room 643, Mail Stop 1721
Phone: (208) 426-1219
E-mail: counseloreducation@boisestate.edu

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. Courses promote the acquisition of the knowledge and skill development in the eight core areas listed in CACREP Standards: Professional Identity, Social and Cultural Diversity, Human Growth and Development, Career Development, Helping Relationships, Group Work, Assessment, and Research and Program Evaluation. Specific course work in each of the eight components is listed below. Electives offered ad hoc or in rotation are designed to maximize flexibility while reflecting current training trends in counseling. The student’s culminating activity includes a written comprehensive exam and videotaped evidence of skill and theory integration supported by a comprehensive portfolio demonstrating professional growth and counseling knowledge with culturally appropriate awareness. Each student works closely with a Program Advisor in preparing the portfolio. During one 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 considerable latitude in selecting internship sites to maximize their experience in line with specific career goals with at least 700 hours of internship experience. Students incorporate counseling theory and knowledge into an increasingly advanced application of skills throughout the program, fine tuning an individualized counseling approach through audio and video taped interviews in counseling labs, participation in counseling practica using one-way mirrors and digital recording, and supervised experience in the community, school, and student outreach sites. The 60-credit Master of Arts in Counseling offers the core of counseling knowledge and skills that allows graduates to enter nearly any branch of the counseling profession. Current areas of concentration include school counseling and addiction/behavioral health counseling.

Graduate Degrees Offered
- Master of Arts in Counseling
- Graduate Certificate in Addiction Studies

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. Courses promote the acquisition of the knowledge and skill development in the eight core areas listed in CACREP Standards: Professional Identity, Social and Cultural Diversity, Human Growth and Development, Career Development, Helping Relationships, Group Work, Assessment, and Research and Program Evaluation. Specific course work in each of the eight components is listed below. Electives offered ad hoc or in rotation are designed to maximize flexibility while reflecting current training trends in counseling. The student’s culminating activity includes a written comprehensive exam and videotaped evidence of skill and theory integration supported by a comprehensive portfolio demonstrating professional growth and counseling knowledge with culturally appropriate awareness. Each student works closely with a Program Advisor in preparing the portfolio. During one 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 considerable latitude in selecting internship sites to maximize their experience in line with specific career goals with at least 700 hours of internship experience. Students incorporate counseling theory and knowledge into an increasingly advanced application of skills throughout the program, fine tuning an individualized counseling approach through audio and video taped interviews in counseling labs, participation in counseling practica using one-way mirrors and digital recording, and supervised experience in the community, school, and student outreach sites. The 60-credit Master of Arts in Counseling offers the core of counseling knowledge and skills that allows graduates to enter nearly any branch of the counseling profession. Current areas of concentration include school counseling and addiction/behavioral health counseling.
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<tbody>
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<td>COUN 501 Foundations in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 502 Counseling Theories</td>
<td>3</td>
</tr>
<tr>
<td>COUN 504 Measurement and Evaluation 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>
</tr>
<tr>
<td>COUN 507 Career Development and Vocational Counseling</td>
<td>3</td>
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<tr>
<td>COUN 508 Special Needs, Ethics and Legal Issues in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 509 Culturally Aware Counseling</td>
<td>3</td>
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<tr>
<td>COUN 511 Family Systems</td>
<td>3</td>
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<td>COUN 512 Statistics and Research Design</td>
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<td>COUN 513 Group Counseling</td>
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<td>COUN 514 Counseling Practicum I</td>
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<td>COUN 516 Counseling Practicum II</td>
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<td>COUN 526 Counseling Internship I</td>
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<td>COUN 527 Applied Research</td>
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<td>COUN 528 Counseling Internship II</td>
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<td>COUN 547 Chemical Addiction and Violence Prevention</td>
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<td>COUN 550 Diagnosis, Assessment and Treatment Planning</td>
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<td>COUN 566 Seminar: Counseling with Special Populations</td>
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<td>COUN 568 Seminar: Professional Counseling</td>
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<td>COUN 592 Portfolio</td>
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<td>COUN 690 Master's Comprehensive Examination</td>
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Addiction Studies—see Interdisciplinary Programs

Course Offerings

See Course Numbering and Terminology for definitions.

COUN — Counseling

COUN 501 FOUNDATIONS IN COUNSELING (3-0-3)(F). Provides an introduction to professional, ethical, legal, theoretical, cultural, social, and practical aspects of counseling. Students examine the roles and responsibilities of counselors; professional organizations and associations; and professional preparation standards. Historical, cultural, and social contexts along with emerging professional issues and directions are included. Specified structure and activities within this course meet the CACREP accreditation requirement of 10 hours of Group Counseling Experience. PREREQ: Admission to the Counseling Program.

COUN 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 MEASUREMENT AND EVALUATION IN COUNSELING (3-0-3) (SU). Students will access theory and practice of standardized test development and procedures; applications and limitations of standardized tests; techniques of administering individual/group tests and of interpreting assessment instruments and profiles; and communication strategies with clients, parents, school personnel, and relevant professionals. PREREQ: COUN 512 or similar graduate statistics course.

COUN 505 COUNSELING SKILLS (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 (2-0-2)(F/SU). Examine theoretical constructs related to developmental processes, both typical and atypical, and analyze developmentally-based behavior patterns across the age spectrum (birth to death) through a variety of contemporary cultures and beliefs.

COUN 507 CAREER DEVELOPMENT AND VOCATIONAL COUNSELING (3-0-3)(SU). Provides an overview of the major career development theories, vocational guidance and occupational/educational information sources and systems. Career development program planning, resources, computerized information systems, and evaluation will be included. Emphasis will be placed on how career counseling and vocational guidance are practiced by the school counselor. PREREQ: Admission to the Counseling Program or Masters in Counseling.

COUN 508 SPECIAL NEEDS, ETHICS, AND LEGAL ISSUES IN COUNSELING (3-0-3)(F/SU). Information on laws, regulations, techniques and interventions needed by professional counselors when working with individuals with disabilities or other challenges. Examination of ethical, legal, and professional issues involved in counseling in all settings and populations. Analysis of questionable situations and practitioner decision-making based on the ethical standards of the American Counseling Association and laws governing professional counselors. PREREQ: COUN 505 or PERM/INST.

COUN 509 CULTURALLY AWARE COUNSELING (3-0-3)(S/U). 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 511 FAMILY SYSTEMS (2-2-3)(F/SU). Examine theoretical constructs related to the family structure, climate, and interactions and develop skills for working with families from diverse backgrounds, including families with special needs children. Opportunities are presented for student participation in parenting skills classes and family systems work. PREREQ: COUN 505 and COUN 509.

COUN 512 STATISTICS AND RESEARCH DESIGN (2-2-3)(S). Students will gain the fundamentals of statistics as they analyze counseling and educational data with emphasis on the review and interpretation of research literature (particularly in the areas of child development and psychotherapy), experience the role of computers in statistical analysis, and discover the relationships among measurement, design, and statistics. PREREQ: COUN 501.

COUN 513 GROUP COUNSELING (2-2-3)(F/S/U). 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 505 with grade of at least B.

COUN 516 COUNSELING PRACTICUM II (1-2-2)(S). Participation in closely supervised counseling experiences (audio and/or video-taping required) with emphasis in student’s area of specialization or interests focusing on ethical decision-making and culturally competent strategies. PREREQ: COUN 514 with a grade of at least B.

COUN 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/U). Knowledge and skills consulting with individuals, groups, and systems. Practices and procedures of consultation where students demonstrate relevant skills in both simulated and internship-based situations. PREREQ: COUN 505 and 509 or PERM/INST.

COUN 526 COUNSELING INTERNSHIP I (1-4-3)(F/S). Students apply their skills, training, and knowledge with increasing autonomy as primary supervision shifts toward an onsite counseling supervisor. Students are observed and evaluated as they engage in a wide range of counseling-related activities. (Pass/Fail.) PREREQ: COUN 516 with grade of at least B. COREQ: COUN 566.

COUN 527 APPLIED RESEARCH (2-0-2)(F). Methods and evaluation of counseling and educational research with the emphasis on individual completion of a research project in cooperation with student’s advisor or director of the study. PREREQ: COUN 512 or equivalent graduate statistics course.
COUN 528 COUNSELING INTERNSHIP II (1-4-3)(F). 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 531 COUNSELING PRACTICUM INTENSIVE (1-4-3)(F). A supervised skill review and experimentally 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). A supervised skill review and experimentally 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 541 (MHLTHSCI 544) ADDICTION AND THE FAMILY SYSTEM (3-0-3)(F). Examination of multigenerational impact of addiction (drugs, alcohol, work, religion, Internet, gambling etc.) on the family system. In addition to dysfunctional roles developed to cope with addiction, class also compares and contrasts communication strategies and parenting styles of unhealthy and healthy family systems. Risk and protective factors, stages of change, and continuum of care from prevention, intervention, treatment and aftercare are addressed. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: HILTHST 109 or COUN/MHLTHSCI 545 or PERM/INST.

COUN 543 (MHLTHSCI 543) ASSESSING AND MANAGING ADOLESCENT SUBSTANCE ABUSE AND MENTAL HEALTH RISKS (2-0-2)(S/SU)(Odd years). Introduction to comprehensive adolescent risk assessment and treatment planning. Examination of current and available comprehensive adolescent assessments, current and available specialized assessments, report writing approaches and effective treatment processes. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: Graduate standing.

COUN 544 (MHLTHSCI 564) SCREENING AND ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS (3-0-3)(F). Emphasis on screening and assessment tool-procedures for substance abuse. Application of current interventions and screening processes. Legal, social, ethical, and health implications will be investigated. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: HILTHST 109 or COUN/MHLTHSCI 545 or PERM/INST.

COUN 545 (MHLTHSCI 545) FOUNDATIONS OF CHEMICAL DEPENDENCY (3-0-3)(F). An overview of the pharmacological and physiological effects of chemical dependency. Special attention is given to how substance abuse impacts brain chemistry and how brain chemistry impacts substance abuse. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: PERM/INST.

COUN 546 (MHLTHSCI 565) ASSESSMENT AND CASE MANAGEMENT OF ALCOHOL AND DRUG PROBLEMS (3-0-3)(S). Emphasis on case management techniques including legal, social, ethical, and health implications. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: COUN 544 or MHLTHSCI 564 or PERM/INST.

COUN 547 (MHLTHSCI 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. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: Graduate standing.

COUN 548 ADICATION AND BEHAVIORAL HEALTH ASSESSMENT AND INTERVENTION (3-0-3)(F). 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: Graduate standing.

COUN 549 MOTIVATIONAL INTERVIEWING (1-0-1)(S). Provides a basic understanding of motivational interviewing, the trans-theoretical model, harm reduction, screening, and brief intervention. PREREQ: Graduate standing.

COUN 550 (MHLTHSCI 568) DIAGNOSIS, ASSESSMENT, AND TREATMENT PLANNING (2-0-2)(F). Examination of concepts of “mental disorders,” DSM classification systems, and the diagnostic benefits and diagnostic problems inherent in such systems. An introduction and overview of the major psychopathological syndromes of adolescents and adults (especially in the area of Co-morbidity of Substance Abuse/Dependence and other DSM IV diagnoses) to facilitate appropriate use of assessment–diagnostic–treatment links (including treatment planning). May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: PERM/INST.

COUN 551 PSYCHOPHARMACOLOGY (1-0-1)(SU)(Even years). Examination of 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 557 INTRODUCTION TO PLAY THERAPY (2-0-2)(S/SU)(Odd years). Overview of child development, play therapy history and research, and fundamental skills used in play therapy. Students acquire effective play therapy skills through supervised practice sessions. PREREQ: COUN 502 or PERM/INST.

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-based problems. Anxiety-based problems are discussed in terms of the interactions between cognitive, behavioral, affective factors, and related treatments are presented. (Pass/Fail.)

COUN 560 PLAY THERAPY APPLICATIONS (1-0-1)(F). Specialized instruction in play therapy techniques with different guest speakers each year as part of the Idaho Initiative for Play Therapy Studies annual conference. Students must pay an additional student fee upon registration, attend the entire two-day conference, and write a comprehensive reflection paper. May be repeated, maximum 3 credits. (Pass/Fail.)

COUN 561 SANDTRAY THERAPY (1-0-1)(SU). Overview of sandtray therapy to use with children and adults. Students acquire sandtray skills through role-played practice. PREREQ: COUN 502 or PERM/INST.

COUN 566 SEMINAR: COUNSELING WITH SPECIAL POPULATIONS (0-1-1). Discussion of and research into the role of ethical and culturally competent counseling with special populations in schools and agency settings, including Individual Developmental Education Act (IDEA), American Disabilities Act (ADA), and Section 504 Regulations. COREQ: COUN 526.

COUN 567 (MHLTHSCI 567) CLINICAL SUPERVISION PRINCIPLES AND PRACTICE (1-0-1)(SU)(Odd years). Theory and skill development for practitioners who are or will be supervising interns and/or professionals in...
school, agency, and other settings. Topics include ethical issues in clinical supervision, models and best practices, documentation, and troubleshooting problematic dynamics. May be taken for COUN or MHLTHSCI credit, but not both. 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). 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/SU). 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, role-plays, and grading of students in corresponding Master's level course. PREREQ: COUN 502 or equivalent.

COUN 606 ADVANCED LIFESPAN DEVELOPMENT (3-0-3)(F/S/SU). 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/SU). Different theoretical and applied approaches to career development and vocational counseling as well as 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/SU). 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 611 ADVANCED FAMILY SYSTEMS (3-0-3)(F/S/SU). 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 511 or equivalent.

COUN 612 RESEARCH AND PROGRAM EVALUATION IN COUNSELING (2-0-2)(F/S/SU). 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. PREREQ: COUN 602.

COUN 613 ADVANCED GROUP COUNSELING (3-0-3)(F/S/SU). 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/SU). Supervised practicum 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/SU). Supervised practicum 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 624 ADVANCED SUPERVISION AND CONSULTATION (3-0-3)(F/S/SU). 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/SU). 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/SU). 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/SU). 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.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Department of Curriculum, Instruction and Foundational Studies

Chair: Phil Kelly
Education Building, Room 215, Mail Stop 1725
Phone: (208) 426-4977
E-mail: pkelly@boisestate.edu

Graduate Degrees Offered
- Education Specialist in Executive Educational Leadership
- Master of Arts in Education, Curriculum and Instruction
- Master of Education in Educational Leadership
- Master of Science in STEM Education
- Graduate Certificate in Mathematics Consulting Teacher Endorsement
- Graduate Certificate in Secondary/K-12 Teaching

Education Specialist in Executive Educational Leadership
Program Coordinators: Kathleen Budge and Kelly Cross
Education Building, Room 213, Mail Stop 1745
Phone: Kathleen Budge (208) 426-3758, Kelly Cross (208) 426-2806
E-mail: kathleenbudge@boisestate.edu, kellycross@boisestate.edu

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.

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

Application Requirements
An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations).

Admission Requirements
1. An overall GPA of 3.5 at the Graduate Level.
2. Two letters of recommendation from school district personnel (if employed as an educator).
3. Letter of application including professional goals.
4. Recommendation following an interview with Executive Educational Leadership faculty.

5. For information about submitting an application, please go to https://education.boisestate.edu/cifs/programs/Ed.S. in Educational Leadership.

Admission may be granted to qualified applicants who hold a Master's degree from an accredited college or university and have some professional experience in the field of education or other related field. Candidates must meet the standards set by the College of Education and participating departments as well as the specific regulations of this program.

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.

Degree Requirements

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<td>ED-CIFS 676 Foundations of Leading Complex Educational Organizations</td>
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<td>ED-CIFS 677 Leading Continuous System-wide Improvement of Learning</td>
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<td>ED-CIFS 678 The Superintendency and Executive Level Leadership: Theory and Research</td>
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<td>ED-CIFS 679 The Superintendency and Executive Level Leadership: Clinical Experience</td>
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<td>ED-CIFS 680 The Superintendency and Executive Level Leadership: Capstone Course</td>
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Master of Arts in Education, Curriculum and Instruction
Program Coordinator: Phil Kelly
Education Building, Room 215, Mail Stop 1725
Phone: (208) 426-4977
E-mail: pkelly@boisestate.edu

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 M.A. in Education, Curriculum and Instruction does not lead to initial teacher certification nor does it require certification for admission.

Application and Admission Requirements
Application for admission may be made by graduates of accredited institutions holding a baccalaureate degree. Admission will consider grade point average. Regular admission may be awarded to applicants who have earned a minimum undergraduate grade point average of 3.0. An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations).
Degree Requirements

Master of Arts in Education, Curriculum and Instruction

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<td>ED-CIFS 537 Instructional Theory (3 cr)</td>
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<td>ED-CIFS 505 Philosophy of Education (3 cr)</td>
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<td>ED-CIFS 520 Foundations of Gifted and Talented Education (3 cr)</td>
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<td>ED-CIFS 549 Mathematical Thinking for Instruction: Action Research and Its Implications in the Mathematics Classroom (3 cr)</td>
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<td>ED-CIFS 574 Action Research and Practicum in Gifted and Talented Education (3 cr)</td>
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</table>

Master of Education in Educational Leadership

Program Coordinator: Kelly Cross
Education Building, Room 213, Mail Stop 1745
Phone: (208) 426-2806
E-mail: kellycross@boisestate.edu

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

Application and Admission Requirements

An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations).

Prospective students may apply for admission at any time. However, all application and admission materials must be received by April 1 for the summer session, July 1 for the fall semester, and November 1 for spring semester.

1. Application fee.
2. Official transcripts of all undergraduate and graduate course work sent directly to Graduate Admission and Degree Services, MS-1110, Boise State University, Boise, Idaho 83725.
3. Minimum GPA of 3.0 (on a 4.0 scale) for the last two years of undergraduate study, or an overall GPA of 3.0.
4. A sample of scholarly and/or professional writing.
5. Letter of recommendation from school district personnel (if employed as an educator).
6. Letter of application including professional goals.
7. Recommendation following an interview with Educational Leadership Development faculty.

Admission will be granted to qualified applicants who hold a Bachelor's degree from an accredited college or university and have some professional relationship to instruction. Candidates must meet the standards set by the College of Education and participating departments as well as the specific regulations of the particular program to which they apply.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</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>
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</tr>
<tr>
<td>ED-CIFS 578 Leading System Change</td>
<td>6</td>
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<tr>
<td>ED-CIFS 579 Educational Leadership Clinical Experience</td>
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<tr>
<td>ED-CIFS 692 Capstone Course</td>
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<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>
College of Education
Department of Curriculum, Instruction and Foundational Studies

Master of Science in STEM Education

Program Coordinator: Phil Kelly
Education Building, Room 215, Mail Stop 1725
Phone: (208) 426-4977
E-mail: pkelly@boisestate.edu

General Information
The curriculum for the Master of Science in STEM Education is targeted towards in-service teachers and stresses current developments in the STEM (Science, Technology, Engineering, and Mathematics) disciplines. In addition to subject matter knowledge, emphasis is placed on STEM pedagogy and educational research. Because of the varied backgrounds of candidates, the student’s degree program can be designed to allow flexibility in choosing course offerings. Special Topics courses and seminars are frequently offered, expanding the program choices. Programs of study for each student are designed in consultation with the STEM Education Graduate Program Coordinator.

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

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
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<tr>
<td>Graduate Core</td>
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<tr>
<td>ED-CIFS 506 Issues in Education (4 cr)</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>ED-CIFS 505 Philosophy of Education (3 cr)</td>
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<tr>
<td>ED-CIFS 536 Curriculum Planning &amp; Implementation (3 cr)</td>
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</tr>
<tr>
<td>ED-CIFS 537 Instructional Theory (3 cr)</td>
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<tr>
<td>Science, Math, or Engineering Education and Content Area Courses</td>
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<tr>
<td>No more than 9 hours upper-division undergraduate non-education credits may be applied towards the degree. No workshop credits may be applied here.</td>
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</tr>
<tr>
<td>Approved Electives</td>
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<tr>
<td>ED-CIFS 503 Fundamentals of Educational Research</td>
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<tr>
<td>ED-CIFS 593 Thesis</td>
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<td><strong>Total</strong></td>
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</tbody>
</table>

Graduate Certificate in Mathematics Consulting Teacher Endorsement

Program Coordinators: Michele Carney and Jonathan Brendefur
Education Building, 222 Mail Stop 1745
Phone: (208) 426-4650
E-mail: michelecarney@boisestate.edu

General Information
The Mathematics Consulting Teacher Endorsement (GC-MCTE) is offered through the Department of Curriculum, Instruction, and Foundational Studies (CIFS). The program is focused on preparing and building the skills of individuals who are interested in improving their classroom instruction, coaching other teachers, or becoming mathematics teacher leaders.

The program objectives are to develop participants’ expertise in the following areas:

- Knowledge of learning progressions for major K-12 mathematics topics and their application in the classroom
- Knowledge and use of current and seminal research literature related to mathematics education to improve instructional practice and student achievement
- Facilitate continuous improvements in student learning through examination of classroom instructional practices with a focus on meaningfully building all students’ learning and application of the content and mathematical practice standards found in the Common Core
- Demonstrate ability to facilitate mathematics professional development and collaboration among teachers, including support through professional learning communities
- Facilitate evaluation of student work, discourse, and assessment data and determine appropriate instructional response(s) utilizing that information.
- Knowledge of learning theories and their meaningful application in multiple educational environments through the use of varied instructional resources
- Improve public understanding of mathematics research and associated learning theories through community outreach and collaboration with families

The MCTE program includes a variety of course options along with the required courses. The courses in the GC-MCTE program are all taken for graduate credit and can be applied to many of the Master’s or doctoral level programs at Boise State University. In addition to the graduate certificate, program participants who successfully complete the required courses and have demonstrated the necessary competencies to receive an institutional recommendation may be eligible for the Mathematics Consulting Teacher Endorsement through the Idaho State Department of Education.

Application and Admission Requirements

1. Apply to the Graduate College and satisfy the minimum admissions requirements of the Graduate College. International applicants must satisfy the international admissions requirements.

2. A baccalaureate degree from an accredited institution of higher learning with a cumulative undergraduate GPA of at least a 3.00.
Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Select a minimum of two of the following:</td>
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<tr>
<td>ED-CIFS 540 Mathematical Thinking for Instruction: Number and Operations K-3 (3 cr)</td>
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<td>ED-CIFS 542 Mathematical Thinking for Instruction: Number and Operations 4-8 (3 cr)</td>
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<tr>
<td>ED-CIFS 544 Mathematical Thinking for Instruction: Number and Operations 6-12 (3 cr)</td>
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<td>Select a minimum of one of the following:</td>
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<tr>
<td>ED-CIFS 541 Mathematical Thinking for Instruction: Early Numeracy and Operations K-3 (3 cr)</td>
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<tr>
<td>ED-CIFS 543 Mathematical Thinking for Instruction: Applications of Rational Numbers, Ratio, and Proportion 4-8 (3 cr)</td>
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<tr>
<td>ED-CIFS 545 Mathematical Thinking for Instruction: Advanced Algebra 6-12 (3 cr)</td>
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<td>Required Courses</td>
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<td>ED-CIFS 546 Mathematical Thinking for Instruction: Building Teacher Leaders of Mathematics (3 cr)</td>
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<tr>
<td>ED-CIFS 547 Mathematical Thinking for Instruction: Measurement and Geometry (3 cr)</td>
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<tr>
<td>ED-CIFS 548 Mathematical Thinking for Instruction: Probability, Data Analysis and Statistics (3 cr)</td>
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<tr>
<td>ED-CIFS 549 Mathematical Thinking for Instruction: Action Research and Its Implications in the Mathematics Classroom (3 cr)</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>21</td>
</tr>
</tbody>
</table>

Graduate Certificate in Secondary/K-12 Teaching

Program Coordinator: Phil Kelly
Education Building, Room 215, Mail Stop 1725
Phone: (208) 426-4977
E-mail: pkelly@boisestate.edu

General Information

The Graduate Certificate in Secondary/K-12 Teaching is a rigorous, accelerated pre-professional program leading to initial certification. Students who have a bachelor's degree in the field they wish to teach and who meet Graduate College admission requirements may enroll in a Graduate Certificate program that prepares students to qualify for teacher certification from the Idaho State Department of Education, although some of the credits 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 (CIFS). Students seeking secondary (6-12) or K-12 (Art, Music or P.E.) certification in an approved area must be enrolled in an approved program.

Certification in Secondary and K-12 Education

Candidates for secondary teacher certification must complete either an approved major endorsement of at least 45 credits or a 30 credit major endorsement and one or more minor endorsements of at least 20 credits. 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.
College of Education  
Department of Curriculum, Instruction and Foundational Studies

- a minimum score of 172 on the PRAXIS I Writing examination (available locally at Prometric Testing Center, (208) 321-7422),
- a passing score on the appropriate PRAXIS II examination in major and minor fields – PRAXIS examination information available at: www.ets.org. Passing scores must be received before applicants can be admitted. Applicants should take the appropriate PRAXIS II examination(s) no later than January.
- evidence of technology competency, which could include EDTECH 202; or equivalent course or examination,
- a brief (1-2 page) essay that clearly lists the area or areas of certification and describes the applicant’s experiences with children or schools. A copy of this essay will be given to the supervisor and cooperating teacher,
- a 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), must be submitted to the Office of Teacher Education (Education Building, Room, 722), and
- two letters of recommendation, describing applicant’s experience working with children or schools.

All PRAXIS test scores must be sent to the Office of Teacher Education. Once the applicant’s file is complete the Office or Teacher Education will schedule and interview. Upon successful completion of the interview, the Graduate Certificate Program Coordinator will make an admission recommendation to the Graduate College. Meeting the application requirements does not guarantee admission to the program. Admission recommendations will be based upon a review of the student’s transcripts, letters of recommendation, essay and interview. In addition, admitted students must maintain a GPA of 3.0 and all required courses must be passed with a minimum grade of C.

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Summer</strong></td>
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<tr>
<td>ED-CIFS 507 Foundations of American Education</td>
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<tr>
<td>ED-CIFS 508 Learning and Development of Students</td>
<td>3</td>
</tr>
<tr>
<td>ED-CIFS 509 Curriculum, Instruction, and Assessment in Grades 6-12</td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>ED-CIFS 561 Professional Year — Teaching Experience I</td>
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<tr>
<td>ED-SPED 550 Teaching Students with Exceptional Needs</td>
<td>3</td>
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<tr>
<td>ED-LTCY 544 Content Literacy in Secondary Schools</td>
<td>3</td>
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<td>Content-specific methods course(s)</td>
<td>3-6</td>
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<tr>
<td>Courses may have prerequisites in addition to the admission requirements.</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>ED-CIFS 550 Seminar On Teaching and Learning</td>
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<tr>
<td>ED-CIFS 562 - 566 Professional Year — Teaching Experience II</td>
<td>12</td>
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<td><strong>Total</strong></td>
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Certification  Submit a completed Proposed Plan of Study for a Graduate Certificate form and apply for graduation on 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).

Disclosure

The Graduate Certificate in Secondary K-12 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: http://graduatecollege.boisestate.edu/programs/secondary-k-12-teaching/more-information-on-secondary-k-12-teaching/

Course Offerings

See Course Numbering and Terminology for definitions.

ED-CIFS — Education-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 (4-0-4)(F/S/SU). Historical and contemporary social, economic, and organizational issues influencing education. Includes readings, presentations by members of the educational community, and discussions.

ED-CIFS 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.
ED-CIFS 520 FOUNDATIONS OF GIFTED AND TALENTED EDUCATION (3-0-3)(F/S/SU). 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 ED-CIFS 538, 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 creative 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 ED-CIFS 538, 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 ED-CIFS 538, 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 Secondary Teacher Certification and ED-SPED 550. COREQ: ED-LTCY 544 and ED-CIFS 561.

ED-CIFS 535 SECONDARY SCHOOL SCIENCE METHODS (3-0-3)(F/S). Students will examine local, state and national science curricula and standards. Students will use a variety of materials and methods, including appropriate instructional technologies, to develop science lessons which help all learners to develop scientific inquiry skills, an understanding of the nature of science, and critical understanding of selected science concepts and procedures. Students will also analyze current science educational journal articles and research. PREREQ: Admission into Graduate Teacher Certification and ED-SPED 550. COREQ: ED-LTCY 544 and ED-CIFS 561.

ED-CIFS 536 CURRICULUM PLANNING AND IMPLEMENTATION (3-0-3) (F/S/SU). This is a general course for practicing teachers intended to give them a foundation in curriculum theory and practice. They will develop an understanding of how curriculum is developed, organized, implemented and evaluated. Current issues and trends in curriculum with some historical perspective will be explored.

ED-CIFS 537 INSTRUCTIONAL THEORY (3-0-3)(F/S/SU). This course includes investigations of research and theory about educational contexts, motivation, learning and development as they relate to models of instruction. Students will develop skills in selecting appropriate instructional models to achieve specific purposes in a variety of educational settings.

ED-CIFS 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 ED-CIFS 538, 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 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 MATHEMATICAL THINKING FOR INSTRUCTION: APPLICATIONS OF RATIONAL NUMBERS, RATIO, AND PROPORTION 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 comparison, ratio, proportion, and early algebraic applications. PREREQ: ED-CIFS 542.

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 generalization, functions, modeling, and their application in understanding the structure of mathematics through early calculus. PREREQ: ED-CIFS 544.

ED-CIFS 546 MATHEMATICAL THINKING FOR INSTRUCTION: 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.

ED-CIFS 547 MATHEMATICAL THINKING FOR INSTRUCTION: 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.

ED-CIFS 548 MATHEMATICAL THINKING FOR INSTRUCTION: PROBABILITY, DATA ANALYSIS, AND STATISTICS (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.

ED-CIFS 549 MATHEMATICAL THINKING FOR INSTRUCTION: ACTION RESEARCH AND ITS MATHEMATICS IN THE 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.
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 561 PROFESSIONAL YEAR — TEACHING EXPERIENCE I (10-10-3)(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 9-12 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 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 use of school funding. Participation in simulations is required of all students. PREREQ: ED-CIFS 576.

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: EDU 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 663 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. PREREQ: EDU 653.

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

ED-CIFS 667 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 on-going 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.

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

Any student qualifying for admission may apply for one of a limited number of graduate assistantships (GA) offered each year. Awards consist of a stipend and fee waiver for fall and spring semesters. Graduate assistantships are awarded on an annual basis and must be renewed yearly by reapplying for the position. Full-time GAs are required to work 20 hours per week, plus be enrolled in nine credit hours during the semester of full-time work. Part-time (10 hour) assistantships, with six credit hour enrollments, are possible depending on availability. Typical GA assignments involve serving as a research assistant for graduate faculty, co-teaching online courses, or a combination of activities.

Program and Dissertation Advisors

Incoming students will go through course planning with the program coordinator. A student’s supervisory committee chairperson (research advisor) will be determined before a student must complete the comprehensive examination. The choice of a research advisor will be based on the shared scholarly interests and compatible educational philosophies of student and faculty.

Degree Requirements

Graduate assistantships are awarded on an annual basis and must be renewed yearly by reapplying for the position. Typical GA assignments involve serving as a research assistant for graduate faculty, co-teaching online courses, or a combination of activities.

Program and Dissertation Advisors

Incoming students will go through course planning with the program coordinator. A student’s supervisory committee chairperson (research advisor) will be determined before a student must complete the comprehensive examination. The choice of a research advisor will be based on the shared scholarly interests and compatible educational philosophies of student and faculty.

Degree Requirements

Graduate assistantships are awarded on an annual basis and must be renewed yearly by reapplying for the position. Typical GA assignments involve serving as a research assistant for graduate faculty, co-teaching online courses, or a combination of activities.
Master of Educational Technology

Graduate Program Coordinator: Chareen Snelson
Student Outreach Services Manager: Kellie Branson
Education Building, Room 304, Mail Stop 1747
Phone: (208) 426-4055
E-mail: kbranson@boisestate.edu

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<tr>
<td>EDTECH 501 Introduction to Educational Technology</td>
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<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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Graduate Certificate in Online Teaching

Graduate Program Coordinator: Chareen Snelson
Student Outreach Services Manager: Kellie Branson
Education Building, Room 304, Mail Stop 1747
Phone: (208) 426-4055
E-mail: kbranson@boisestate.edu

General Information

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

Admission Requirements

Admission to the certificate program requires a baccalaureate degree from a regionally accredited college or university and admission to the Graduate College. In addition, the academic background of the applicant must be judged by the Graduate Program Coordinator to be adequate for enrollment in graduate courses in education and educational technology. However, meeting these minimum requirements does not guarantee admission to the certificate program.

Application Procedures

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

Special Relationships with Other Programs

A student may be simultaneously enrolled in any graduate degree program (Ed.D., 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. Please note that admission to the certificate program does not guarantee admission to the degree program and vice versa.

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

Master of Science in Educational Technology

Graduate Program Coordinator: Ross Perkins
Education Building, Room 312, Mail Stop 1747
Phone: (208) 426-4875
E-mail: rossperkins@boisestate.edu

Degree Requirements

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<tr>
<td>EDTECH 501 Introduction to Educational Technology</td>
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<td>EDTECH 561 Research in Educational Technology</td>
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<td>EDTECH 562 Introduction to Statistics for Educational Technology</td>
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Certificate Requirements

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<td><strong>For teachers of adult learners</strong></td>
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<td>EDTECH 512 Online Course Design (3 cr)</td>
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Graduate Certificate in School Technology Coordination

Graduate Program Coordinator: Chareen Snelson
Student Outreach Services Manager: Kellie Branson
Education Building, Room 304, Mail Stop 1747
Phone: (208) 426-4055
E-mail: kbranson@boisestate.edu

General Information

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

Admission Requirements

Admission to the certificate program requires a baccalaureate degree from a regionally accredited college or university and admission to the Graduate College. In addition, the academic background of the applicant must be judged by the Graduate Program Coordinator to be adequate for enrollment in graduate courses in education and educational technology. However, meeting these minimum requirements does not guarantee admission to the certificate program.

Application Procedures

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

Special Relationships with Other Programs

A student may be simultaneously enrolled in any graduate degree program (Ed.D., 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. Please note that admission to the certificate program does not guarantee admission to the degree program and vice versa.

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

Certificate Requirements

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<td>EDTECH 501 Introduction to Educational Technology</td>
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<td>EDTECH 551 Technical and Grant Writing</td>
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<td>EDTECH 552 Introduction to Network Administration</td>
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<td>EDTECH 554 Managing Technology Integration in Schools</td>
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</table>

Graduate Certificate in Technology Integration Specialist

Graduate Program Coordinator: Chareen Snelson
Student Outreach Services Manager: Kellie Branson
Education Building, Room 304, Mail Stop 1747
Phone: (208) 426-4036
E-mail: kbranson@boisestate.edu

General Information

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

Admission Requirements

Admission to the certificate program requires a baccalaureate degree from a regionally accredited college or university and admission to the Graduate College. In addition, the academic background of the applicant must be judged by the Graduate Program Coordinator to be adequate for enrollment in graduate courses in education and educational technology. However, meeting these minimum requirements does not guarantee admission to the certificate program.
Application Procedures

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

Special Relationships with Other Programs

A student may be simultaneously enrolled in any graduate degree program (Ed.D., 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. Please note that admission to the certificate program does not guarantee admission to the degree program and vice versa.

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

Certificate Requirements

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<th>Course Number and Title</th>
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<td>EDTECH 541 Integrating Technology into the Classroom Curriculum</td>
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<td>EDTECH 542 Technology-Supported Project-Based Learning</td>
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Course Offerings

See Course Numbering and Terminology for definitions.

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 THE INTERNET FOR EDUCATORS (3-0-3) (F/S/SU). Locate, retrieve, and evaluate information found on the Internet. Design and produce instructional Web pages using a combination of software and HTML/XHTML/CSS code. Apply appropriate instructional strategies and models to the design of digital curriculum.

EDTECH 503 INSTRUCTIONAL DESIGN (3-0-3) (F/S/SU). Focuses on systematic design of instruction and alternative models. 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 520 ONLINE TEACHING IN THE K-12 ENVIRONMENT (3-0-3) (F/S/SU). Examines research-supported practices in online teaching and learning in the K-12 environment. Emphasizes online teaching tools, caseload management, learner engagement, and individualized instruction. Project required.

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 TEACHING (3-0-3) (F/S/SU). Emphasizes content-specific instructional strategies, methods, data analysis, and improved communication in online instruction. Experience with web-based video/audio communication tools recommended. PREREQ: EDTECH 521 or EDTECH 532.

EDTECH 524 FIELD EXPERIENCE IN ONLINE TEACHING (0-6-2) (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 DIGITAL GAME DESIGN FOR K-12 CLASSROOMS (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
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). 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 561 RESEARCH IN EDUCATIONAL TECHNOLOGY (3-0-3)(F/S/SU). Review and analysis of research studies in educational technology. Foundations in the relationships among research design, measurement, and statistics; methodology for designing, conducting, and reporting educational technology research. PREREQ: EDTECH 504.

EDTECH 562 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.

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: ERM/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. PREREQ: EDTECH 601.

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 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 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 562, 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 652, 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 study and implementation, and generation back to theory. Emphasis on collaboration among researchers and practitioners in real-world settings. PREREQ: EDTECH 561.

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


**Department of Literacy**

Chair: Stan Steiner  
Education Building, Room 504, Mail Stop 1725  
Phone: (208) 426-2862  
E-mail: stansteiner@boisestate.edu  

**Graduate Degree Offered**  
- Master of Arts in Education, Literacy

**General Information**

Based on the standards recommended by the International Reading Association and the National Council for the Teachers of English, the Master of Arts in Education, Literacy, is designed to extend each candidate's academic and professional background in the field of language and literacy learning and development. The combination of course requirements and areas of emphasis allows candidates to develop an area of expertise that is relevant to their professional interests and goals. Coursework options include emphasis in a variety of domains: adolescent literacy, early literacy, English language learners, language arts, literacy and technology, literacy coaching, literature of youth, middle literacy, and reading specialists. Students will continue to have the option of earning an Idaho State Literacy endorsement.

**Application and Admission Requirements**

1. Apply to the Graduate College and satisfy the minimum admissions requirements of the Graduate College (see Graduate Admission Requirements).
2. Hold a baccalaureate degree from an accredited institution of higher learning.
3. A list of your teaching experience

**Master of Arts in Education, Literacy**

Graduate Program Coordinator: Stan Steiner  
Education Building, Room 503, Mail Stop 1725  
Phone: (208) 426-3962  
E-mail: stansteiner@boisestate.edu

**Degree Requirements**

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<thead>
<tr>
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<tr>
<td><strong>Educational Foundations</strong></td>
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<tr>
<td>ED-CIFS 505 Issues in Education</td>
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<tr>
<td>ED-LTCY 540 Foundation of Literacy Instruction</td>
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<tr>
<td><strong>Research in Literacy</strong></td>
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<tr>
<td>ED-CIFS 503 Fundamentals of Educational Research (3 cr)</td>
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<tr>
<td>ED-LTCY 557 Research Base For Contemporary Literacy Curricula (3 cr)</td>
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<td>ED-LTCY 560 Interpreting Research in Literacy (2 cr)</td>
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<tr>
<td>ED-LTCY 541 Assessment and Instruction: Reading Difficulties K-12 (3 cr)</td>
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<td>ED-LTCY 542 Best Practices in Literacy Improvement (3 cr)</td>
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**Literacy and Culture**

- ED-BLES L 502 Methods of Teaching ESL: Maximizing Innovative Pedagogical Approaches to Teaching ESL (3 cr)
- ED-LTCY 559 Language, Literacy and Culture (3 cr)
- EDU 610 The American Culture and the Context of Schooling (3 cr)
- ENGL 550 Literature and Culture (3 cr)

**Linguistics and Language Development**

- ED-LTCY 548 Psycholinguistics and Literacy (3 cr)
- ENGL 505 Linguistics (3 cr)

**Elective Core Courses**

Course selected may not be used to fulfill credit requirements for either the area of emphasis or in the Project/Thesis option.

- ED-LTCY 532 Advanced Principles and Practices in Teaching Language Arts (3 cr)
- ED-LTCY 542 Best Practices in Literacy Improvement (3 cr)
- ED-LTCY 543 Seminar in Literacy Education (3 cr)
- ED-LTCY 544 Content Literacy in Secondary Schools (3 cr)
- ED-LTCY 545 Writing Processes, Instruction, and Assessment: K-8 (3 cr)
- ED-LTCY 546 Advanced Study of Children's Literature (3 cr)
- ED-LTCY 547 Advanced Young Adult Literature (3 cr)
- ED-LTCY 549 Idaho Comprehensive Literacy Course (3 cr)
- ED-LTCY 550 Advanced Content Area Literacy (3 cr)
- ED-LTCY 551 Literacy Leadership (3 cr)
- ED-LTCY 552 Technology and Literacy (3 cr)
- ED-LTCY 554 Review of Literacy Processes and Practices (3 cr)
- ED-LTCY 555 Directing and Supervising Reading Programs (3 cr)
- ED-LTCY 556 Large-Scale Literacy Assessment (3 cr)
- ED-LTCY 557 Research Base for Contemporary Literacy Curricula (3 cr)
- ED-LTCY 559 Language, Literacy And Culture (3 cr)
- ED-LTCY 560 Independent Study (1-3 cr)
- ED-LTCY 597 Special Topics (1-3 cr)
- ED-LTCY 598 Seminar (1-3 cr)

**Culminating Activity Options**

9-10

Students must choose Option 1 or Option 2

**Option 1. Thesis or Project**

Students who wish to complete the project or thesis option must do so with the assistance of his or her advisor. Students are required to complete ED-CIFS 503 for the Research in Literacy requirement as well as 9 credits in one of the following:

- ED-LTCY 591 Project (3 cr) and Elective (6 cr)
- OR
- ED-LTCY 593 Thesis (6 cr) and Elective (3 cr)

**Option 2. Area of Emphasis**

Students who wish to specialize in an area of literacy may do so by completing the following:

- ED-LTCY 692 Capstone Course (1 cr)
- Select one of the following 10 Areas of Emphasis (9 cr)*:
  - Adolescent Literacy
  - Early Literacy
  - English Language Learners
  - Language Arts
  - Literacy and Technology
  - Literature for Youth
  - Middle Literacy
  - Reading Coaches
  - Reading Specialist
  - Writing

*A list of recommended electives and courses for each area of emphasis is maintained on the Department of Literacy website: https://education.boisestate.edu/literacy/.

| Total | 34-35 |

*continued*
Course Offerings

See Course Numbering and Terminology for definitions.

ED-LTCY — Education—Literacy

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

ED-LTCY 540 FOUNDATIONS OF LITERACY INSTRUCTION (3-0-3)(F/S/SU). Studies the theoretical constructs of 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-LTCY 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: Admission to graduate program.

ED-LTCY 542 BEST PRACTICES IN LITERACY IMPROVEMENT (2-1-3)(F/SU). 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-LTCY 541 or the equivalent.

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

ED-LTCY 544 CONTENT LITERACY IN SECONDARY SCHOOL (3-0-3)(F/S/SU). Emphasis on using instructional materials in the various content subjects and developing instructional skills to meet the reading, writing, and studying needs of all learners in today's diverse society. Students will examine professional literature on best teaching practices. PREREQ: Admission to Graduate Secondary Teacher Certification and ED-SPED 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-LTCY 545 WRITING PROCESSES, INSTRUCTION, AND ASSESSMENT: K-8 (3-0-3)(S). Focuses on ways to 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-LTCY 546 ADVANCED STUDY OF CHILDREN'S LITERATURE (3-0-3)(F/SU). In-depth literary analysis of children's literature from preschool to early adolescence, including multicultural literature. Development of children's literature activities for classroom, libraries, and other settings.

ED-LTCY 547 ADVANCED YOUNG ADULT LITERATURE (3-0-3)(SU). Offers an update in diverse young adult literature, as well as research, critical analysis and instructional strategies for a variety of settings. Intended for teachers, librarians, media generalists, and others working with young adults.

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

ED-LTCY 549 IDAHO COMPREHENSIVE LITERACY COURSE (3-0-3)(F/S/SU). Research-based best reading practices focused on language structure and literacy instruction, comprehension research, material selection, and assessment and intervention strategies. Contemporary and historical perspectives will be examined.

ED-LTCY 550 ADVANCED CONTENT AREA LITERACY (3-0-3)(SU). 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-LTCY 551 LITERACY LEADERSHIP (3-0-3)(S). Examines theories about leadership of school literacy programs. Leadership theory and research as related to literacy curriculum and instruction are explored.

ED-LTCY 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-LTCY 554 REVIEW OF LITERACY PROCESSES AND PRACTICES (3-0-3) (F/S/SU). Examines the interrelationship of the literacy processes through the examination of epistemological, philosophical, theoretical, and pedagogical literacy models.

ED-LTCY 555 DIRECTING AND SUPERVISING READING PROGRAMS (3-0-3) (F/SU). 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.

ED-LTCY 556 LARGE-SCALE LITERACY ASSESSMENT (3-0-3)(F). Explores large-scale assessment as it relates to literacy assessment; examines current approaches to large scale assessment, assessment design, and specific assessments such as PIRLS, PISA, NAEP, state level tests, etc. with emphasis given to how this data are being interpreted and used for social and political purposes.

ED-LTCY 557 RESEARCH BASE FOR CONTEMPORARY LITERACY CURRICULA (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-LTCY 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-LTCY 560 INTERPRETING RESEARCH IN LITERACY (2-0-2)(F/S). Examines literacy research involving the generation and refinement of models and theories as well as the traditional quest for better methods of teaching reading and writing. Strategies in interpreting and analyzing the professional literature will also be emphasized.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Department of Special Education and Early Childhood Studies

Chair: Michael Humphrey
Education Building, Room 203, Mail Stop 1725
Phone: (208) 426-7115
E-mail: michaelhumphrey@boisestate.edu

Graduate Degrees Offered

- Master of Arts in Early Childhood Studies
- Master of Education in Early Childhood Studies
- Master of Arts in Special Education
- Master of Education in Special Education
- Graduate Certificate in Consulting Teacher Endorsement

General Information

Early Childhood Studies

The mission of the master's degrees in Early Childhood Studies is to provide advanced professional preparation for candidates with a common core and specialization in early childhood studies. The program blends two disciplines, early childhood education and early childhood special education. Thus, a candidate is qualified to work with all young children, birth through grade three. The program may or may not lead to certification to teach in public schools. The candidate should seek the help of an advisor to plan course work that satisfies certification requirements. The Master of Arts requires a thesis, while the Master of Education requires either a professional portfolio or a project.

Special Education

Special Education graduate programs are designed for experienced professionals who seek advanced knowledge and skills in the field of special education. Such professionals may be employed as special educators in public schools, or they may work with or on behalf of individuals with disabilities in community or agency settings.

Completion of the required courses in a Special Education graduate program does not qualify the candidate for initial certification to teach special education in public schools. The candidate should seek the help of an advisor to plan course work that satisfies certification requirements.

The Master of Arts in Special Education and Master of Education in Special Education are similar in course work requirements, but differ in the culminating activity. The Master of Arts culminates in a thesis, and is designed for candidates who are primarily interested in scholarly research. The Master of Education culminates in either a professional portfolio or a project, and primarily is designed for practitioners in the field.

Application and Admission Requirements

An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations). In addition to the application materials required by the Graduate College, for admission to the M.A. and M.Ed. programs in Special Education and in Early Childhood Studies prospective students should submit directly to the Special Education or Early Childhood Studies Graduate Program Coordinator a one to two page essay outlining the applicant’s professional background, and interest in graduate study in that area. International students whose first language is not English must take the Test of English as a Foreign Language (TOEFL) or the International Language Testing System test (IELTS) with a minimum TOEFL score of 587 (paper-based test) or 95 (internet-based test), or an IELTS score of 6.5.

Master of Arts in Early Childhood Studies

Graduate Program Coordinator: Juli Pool
Education Building, Room 207, Mail Stop 1725
Phone: (208) 426-2807
E-mail: julipool@boisestate.edu

Degree Requirements

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<th>Course Number and Title</th>
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<tr>
<td>ED-CIFS 503 Fundamentals of Educational Research</td>
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<tr>
<td>ED-CIFS 506 Issues in Education</td>
<td>4</td>
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<tr>
<td>ED-ECS 510 Issues and Topics in ECSE</td>
<td>3</td>
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<tr>
<td>ED-ECS 511 EI/ECSE Assessment and Evaluation</td>
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<td>ED-ECS 512 Positive Behavioral Interventions and Supports in Early Childhood</td>
<td>3</td>
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<td>ED-ECS 513 Family Systems and Collaboration</td>
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<td>ED-ECS 514 ECSE Methods</td>
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<tr>
<td>ED-ECS 593 Thesis</td>
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Completion of the required courses in the Master of Arts in Early Childhood Studies does not qualify the candidate for state certification in Blended Early Childhood/Early Childhood Special Education. The candidate should seek advising to determine certification requirements.
Master of Education in Early Childhood Studies

Graduate Program Coordinator: Juli Pool
Education Building, Room 207, Mail Stop 1725
Phone: (208) 426-2807
E-mail: julipool@boisestate.edu

Degree Requirements

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<td>ED-CIFS 506 Issues in Education</td>
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<td>ED-ECS 510 Issues and Topics in ECSE</td>
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<td>ED-ECS 511 EI/ECSE Assessment and Evaluation</td>
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<td>ED-ECS 512 Positive Behavioral Interventions and Supports in Early Childhood</td>
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<td>ED-ECS 513 Family Systems and Collaboration</td>
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<td>ED-ECS 514 ECSE Methods</td>
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<tr>
<td>Approved ED-SPED graduate electives</td>
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Culminating Activity Options

Option 1. Project
- ED-CIFS 503 Fundamentals of Educational Research (3 cr)
- ED-ECS 591 Project (6 cr)

Option 2. Portfolio
- ED-SPED 590 Practicum/Internship (3 cr)

Total 33

Completion of the required courses in the Master of Education in Early Childhood Studies does not qualify the candidate for state certification in Blended Early Childhood/Early Childhood Special Education. The candidate should seek advising to determine certification requirements.

Master of Education in Special Education

Graduate Program Coordinator: Jack Hourcade
Education Building, Room 515, Mail Stop 1725
Phone: (208) 426-3544
E-mail: jhourca@boisestate.edu

Degree Requirements

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<td>ED-SPED 552 Instructional Strategies for Special Educators or ED-SPED 556 Seminar in Severe Disabilities</td>
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<td>ED-SPED 554 Positive Behavior Programs</td>
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<td>ED-SPED 555 Issues and Trends in Special Education</td>
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Culminating Activity Options

Option 1. Project
- ED-SPED 591 Project (6 cr)

Option 2. Portfolio
- ED-ECS 592 Portfolio (1 cr)

Total 33

Graduate Certificate in Consulting Teacher Endorsement

Graduate Program Coordinator: Evelyn Johnson
Education Building, Room 513, Mail Stop 1725
Phone: (208) 426-2189
E-mail: evelynjohnson@boisestate.edu

General Information

The Graduate Certificate in Consulting Teacher Endorsement is intended for students who want to develop professional skills and knowledge to successfully teach students with disabilities in Idaho. Students who complete this program and who hold an Idaho State Teaching Certificate will be eligible for the Idaho State Consulting Teacher Endorsement. The program will enable students to develop expertise in the areas of mentoring and tiered service delivery, and then select an area of emphasis in instructional design for students with disabilities, positive behavior support, secondary transition or early childhood special education.

Application and Admission Requirements

Admission to the certificate program requires a baccalaureate degree from a regionally accredited college or university and admission to the Graduate College (see Graduate Admission Regulations). 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 special education and early childhood studies. However, meeting these minimum requirements does not guarantee admission to the certificate program.
The applicant must also submit a letter of interest to the Graduate Program Coordinator briefly summarizing his or her background and motivation for enrolling in the certificate program. Once the applicant’s file is complete, it will be reviewed by the Graduate Program Coordinator who will provide an admission recommendation to the Dean of the Graduate College. The Dean will make the final admission decision and notify the applicant.

Special Relationships with Other Programs

A student may be simultaneously enrolled in a Masters program in Special Education or Early Childhood Studies and the Graduate Certificate, Consulting Teacher Endorsement program subject to the approval of the chair of the student’s supervisory committee and the graduate program coordinators of both programs. Please note that admission to the certificate program does not guarantee admission to the degree program and vice versa.

Simultaneous enrollment in more than two graduate certificate programs is prohibited by the Graduate College. Credits earned in this certificate program may be counted towards a Masters program in Early Childhood Studies or Special Education.

Certificate Requirements

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<td>ED-SPED 559 Mentoring</td>
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<td>ED-SPED 552 Instructional Strategies for Special Educators</td>
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<td>ED-SPED 557 Universal Design and Assistive Technology (3 cr)</td>
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<td>ED-SPED 558 Data-Based Decision Making and Assessment (3 cr)</td>
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<td>ED-ECS 517/ED-SPED 517 School-Wide Behavior Support Systems (3 cr)</td>
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<td>ED-ECS 514 ECSE Methods</td>
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Course Offerings

See Course Numbering and Terminology for definitions.

ED-ECS — Education- Early Childhood Studies

ED-ECS 510 ISSUES AND TOPICS IN ECSE (3-0-3)(F). Current issues and trends in the field of early childhood special education, NAEYC and DEC standards of practice, policies and procedures, theories and models.

ED-ECS 511 EI/ECSE ASSESSMENT AND EVALUATION (3-0-3)(F). Assessment and ongoing evaluation in EI/ECSE. Focus on screening, eligibility, curriculum-based measurement, progress monitoring, and data-based decision making.

ED-ECS 512 POSITIVE BEHAVIORAL INTERVENTIONS AND SUPPORTS IN EARLY CHILDHOOD (3-0-3)(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.

ED-ECS 513 FAMILY SYSTEMS AND COLLABORATION (3-0-3)(S). Early intervention models, service delivery, family systems, and collaboration with parents and educators.

ED-ECS 514 ECSE METHODS (3-0-3)(S). Application of a linked system of assessment, goal development, intervention and evaluation to provide services across developmental domains.

ED-ECS 517 (ED-SPED 517) SCHOOL-WIDE BEHAVIOR SUPPORT SYSTEMS (3-0-3)(S). 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. May be taken for ED-ECS or ED-SPED credit, but not both.

ED-ECS 518 (ED-SPED 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. May be taken for ED-ECS or ED-SPED credit, but not both. PREREQ: ED-ECS 512 or ED-SPED 554 or PERM/INST.

ED-ECS 548 (ED-SPED 548) ISSUES IN AUTISM (3-0-3)(F). 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. May be taken for ED-ECS or ED-SPED credit, but not both.

ED-ECS 562 TEACHING EXPERIENCE IN PRIMARY GRADES: ECE/ECSE (0-V-V)(F/S). Primary grade student teaching experience for graduate students pursuing the ECE/ECSE blended certificate. Teaching responsibility in inclusive and pullout classrooms for children with and without delays and disabilities. Experience is consistent with state certification standards, and NAEYC and DEC standards of practice (Pass/Fail.) PREREQ: Admission to Professional Year or PERM/INST.

ED-ECS 563 TEACHING EXPERIENCE IN PRESCHOOL PROGRAMS: ECE/ECSE (0-V-V)(F/S). Preschool student teaching experience for graduate students pursuing the ECE/ECSE blended certificate. Teaching responsibility in inclusive and pullout classrooms for children with and without delays and disabilities. Experience is consistent with state certification standards, NAEYC, and DEC standards of practice (Pass/Fail.) PREREQ: Admission to Professional Year or PERM/INST.

ED-ECS 564 TEACHING EXPERIENCE IN NATURAL ENVIRONMENTS, BIRTH TO THREE: ECE/ECSE (0-V-V)(F/S/5U). Infant/toddler program student teaching experience for graduate students pursuing the ECE/ECSE blended certificate. Responsibilities in a natural environment, center or home, for infants and toddlers with and without disabilities including family contact. Experience is consistent with state certification standards, NAEYC, and DEC standards of practice. Student must obtain a city childcare license. (Pass/Fail.) PREREQ: Admission to Professional Year or PERM/INST.

ED-SPED — Education-Special Education

ED-SPED 517 (ED-ECS 517) SCHOOL-WIDE BEHAVIOR SUPPORT SYSTEMS (3-0-3)(S). 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. May be taken for ED-ECS or ED-SPED credit, but not both.
ED-SPED 518 (ED-ECS 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. May be taken for ED-ECS or ED-SPED credit, but not both. PREREQ: ED-ECS 512 or ED-SPED 554 or PERM/INST.

ED-SPED 541 FOUNDATIONS OF SECONDARY TRANSITION (3-0-3)(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.

ED-SPED 542 POST-SECONDARY ENVIRONMENTS AND INTERAGENCY COLLABORATION (3-0-3)(SU). Skills and strategies for providing meaningful support to transition aged youth with disabilities. Emphasis is placed on interagency collaboration, post-secondary education supports and services, self-determination, and employment and vocational models.

ED-SPED 548 (ED-ECS 548) ISSUES IN AUTISM (3-0-3)(F). 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. May be taken for ED-ECS or ED-SPED credit, but not both.

ED-SPED 549 TIERED SERVICE DELIVERY MODELS (3-0-3)(SU). Essential components of a responsive instruction and intervention approach, including screening, instruction, intervention, progress monitoring and fidelity of implementation.

ED-SPED 550 TEACHING STUDENTS WITH EXCEPTIONAL NEEDS (3-0-3)(F). Education of students with exceptional needs. Characteristics of students with disabilities, relevant legislation, assessment techniques, curricular adaptations and accommodations, and collaboration.

ED-SPED 552 INSTRUCTIONAL STRATEGIES FOR SPECIAL EDUCATORS (3-0-3)(F). Advanced professional knowledge and skills in developing and implementing programs for students with disabilities, including data analysis in programmatic decision-making.

ED-SPED 554 POSITIVE BEHAVIOR PROGRAMS (3-0-3)(F). Current best practices in development and implementation of instructional and behavioral programs for students with challenging behaviors.

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

ED-SPED 556 SEMINAR IN SEVERE DISABILITIES (3-0-3)(SU)(Odd years). Advanced professional knowledge and skills relevant to providing services to individuals with severe disabilities, with special attention to contemporary issues and trends in the field.

ED-SPED 557 UNIVERSAL DESIGN AND ASSISTIVE TECHNOLOGY (3-0-3)(F). 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-SPED 558 DATA-BASED DECISION MAKING AND ASSESSMENT (3-0-3)(F). Formative and summative assessment tools to inform special education eligibility, placement, and programming decisions.

ED-SPED 559 MENTORING (3-0-3)(SU). Skills and strategies for providing meaningful support and guidance to fellow teachers, using a variety of coaching styles and mentoring techniques. Develop, implement, and analyze a coaching plan to lay the foundation as a future leader and mentor.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
COLLEGE of ENGINEERING
College of Engineering

Dean: Amy J. Moll, Ph.D.
Engineering Building, Room 301, Mail Stop 2100
Phone: (208) 426-1153
Fax: (208) 426-4466
http://coen.boisestate.edu

Associate Dean for Academic Affairs:
Janet Callahan, Ph.D.
Phone: (208) 426-5983

Assistant Dean for Research and Infrastructure:
Rex Oxford
Phone: (208) 426-5744

Graduate Degrees Offered

- Doctor of Philosophy in Electrical and Computer Engineering
- Doctor of Philosophy in Materials Science and Engineering
  (See Interdisciplinary Programs)
- Master of Engineering in Civil Engineering
- Master of Science in Civil Engineering
- Master of Engineering in Computer Engineering
- Master of Science in Computer Engineering
- Master of Science in Computer Science
- Master of Engineering in Electrical Engineering
- Master of Science in Electrical Engineering
- Master of Science in Hydrologic Sciences
  (See Interdisciplinary Programs)
- Master of Science in Organizational Performance and Workplace Learning
- Master of Engineering in Mechanical Engineering
- Master of Science in Mechanical Engineering
- Master of Engineering in Materials Science and Engineering
  (See Interdisciplinary Programs)
- Master of Science in Materials Science and Engineering
  (See Interdisciplinary Programs)
- Graduate Certificate in Workplace E-Learning and Performance Support
- Graduate Certificate in Workplace Instructional Design
- Graduate Certificate in Workplace Performance Improvement

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, 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 the nation.

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 in Electrical and Computer Engineering and Materials Science and Engineering provides 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, Computer Engineering, Electrical 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 Biomaterials Research Laboratory, the Center for Materials Characterization, the Beowulf Computer Cluster Development Laboratory, the C-MEMS Laboratory, Environmental Sensor Development, the Biomechanics Research Laboratory, the Nanofabrication Laboratory, and more.
Department of Civil Engineering

Chair: Mandar Khanal
Environmental Research Building, Room 1134, Mail Stop 2060
Phone: (208) 426-3743
http://coen.boisestate.edu/ce

Graduate Degrees Offered

- Master of Engineering in Civil Engineering
- Master of Science in Civil Engineering
- Master of Science in Hydrologic Sciences
  (See Interdisciplinary Programs)

General Information

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

Application and Admission Requirements

Admission Requirements An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations). In addition, the applicant must hold a bachelor of science (B.S.) degree in civil engineering from an ABET-accredited program or a baccalaureate degree in a closely related field, and must follow the application procedures specified below.

1. A minimum cumulative GPA of 3.0 computed for all undergraduate credits or a 3.0 GPA computed for the last 60 undergraduate credits.
2. A minimum GRE combined (verbal plus quantitative) score of 300 (equivalent to 1100 in the old scoring system) with a minimum GRE quantitative score of 153 (equivalent to 680 in the old scoring system) is required. 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.
3. Admission to the graduate program is competitive and the achievement of minimum requirements does not guarantee admission.

Application Procedures Applicants are strongly encouraged to apply ahead of the deadlines. A prospective student who is seeking a graduate assistantship must apply by February 1st for Fall and Summer admission and by July 1st for Spring admission. A prospective student who is not seeking financial aid must apply by the application deadlines of the Graduate College (see Application Deadlines for Degree-Seeking Students). Applications that are complete yet submitted past the above-mentioned deadlines will not be evaluated. Those applicants should reapply by the deadline for the next semester. Applicants should follow the general graduate application procedure for degree-seeking students (see Applying as a Degree-Seeking Student). In addition to the application materials required by the Graduate College, the applicant must also submit the following application materials to the Department of Civil Engineering by the aforementioned deadlines.

1. A cover letter and a resume
2. A statement of purpose that describes the applicant’s educational and professional background, career goals, the area of specialization, and degree program (i.e., M.S., M. Engr., or M.S in Hydrological Sciences) to be sought, as well as his/her motivation for graduate study.
3. GRE General Test scores submitted directly from the Educational Testing Service (www.ets.org) to Boise State University (code R4018). 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.
4. Three letters of recommendation from professionally related references (at least two from academic sources) submitted directly by the references to the Graduate College. Letters of recommendation are not required of graduates from the Civil Engineering program at Boise State University. The letters of recommendation as well as the cover letter should be addressed to:

   ATTN: Graduate Program Coordinator
   Department of Civil Engineering
   Boise State University

Questions on application procedure, status or the graduate program in general should be e-mailed to CEgradapps@boisestate.edu. Once the applicant’s file is complete, it will be evaluated by the Civil Engineering Graduate Studies Committee and an admission recommendation (regular or denial) will be forwarded to the Dean of the Graduate College. In order to ensure proper mentoring of all graduate students, a recommendation for admission will not be forwarded unless a faculty member of the Department of Civil Engineering is available to serve as the major advisor. The graduate dean will make the final admission decision and notify the applicant and the Civil Engineering Graduate Coordinator. Applicants whose applications are either denied or found to be incomplete will need to reapply.

Graduate Teaching and Research Fellowships

Graduate assistantships within the department are highly competitive and may consist of a stipend and a 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 3.0. Prospective students are encouraged to contact individual faculty members for further information about research projects.

Advisor and Supervisory Committee

For a student admitted to the M.S. C.E. program, a supervisory committee (including a major advisor who serves as chair) will be assigned. The role of the supervisory committee is to guide the student in all aspects of his or her graduate study. A supervisory committee will also be assigned for a student admitted to the M. Engr. CE program.
College of Engineering
Department of Civil Engineering

Master of Engineering in Civil Engineering
Graduate Program Coordinator: Arvin Farid
Environmental Research Building, Room 3133, Mail Stop 2060
Phone: (208) 426-4827
E-mail: arvinfarid@boisestate.edu

Degree Requirements
Students must complete at least 31 graduate credits distributed as shown in the degree requirements table. A maximum of 3 credits of CE 696 Directed Research may be applied to meet the degree requirements.

The comprehensive examination cannot be attempted prior to the last semester of the program. If the comprehensive examination is failed on the first attempt, a Report of Failure of a Comprehensive Examination form along with the appropriate grade for CE 690 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 and approved by the CE department and the Graduate Program Coordinator.

Department Policy: If the second attempt is not requested by the student, or it was requested but not approved, a grade of F is submitted, which will be ground for dismissal. If the request for the second exam is approved, the exam must occur within twelve months of the first exam. 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>
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<tbody>
<tr>
<td>Graduate CE Courses</td>
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</tr>
<tr>
<td>Other Graduate Courses</td>
<td>0-12</td>
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<td>Comprehensive Examination</td>
<td>1</td>
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<tr>
<td>Total</td>
<td>31</td>
</tr>
</tbody>
</table>

Student Guidance
The graduate program coordinator will serve as the faculty advisor for each student admitted to the program. By the end of the second semester, the graduate coordinator may appoint a major advisor to the student. In addition, by the end of the second semester, the graduate coordinator, with concurrence of the chair of the department, will appoint a supervisory committee, which will mentor and guide the student through the program and conduct the design of the CE 690 Master’s Comprehensive Examination.

Master of Science in Civil Engineering
Graduate Program Coordinator: Arvin Farid
Environmental Research Building, Room 3133, Mail Stop 2060
Phone: (208) 426-4827
E-mail: arvinfarid@boisestate.edu

Degree Requirements
Students must complete at least 31 graduate credits distributed as shown in the degree requirements table. A written thesis proposal with oral presentation to the supervisory committee is required prior to the completion of 15 credits applicable to the degree requirements. Work on the thesis can only be undertaken after approval of the thesis proposal by the supervisory committee.

The thesis must constitute an original contribution to 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>
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<td>ENGR 500 Research Methods</td>
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<td>Graduate CE Courses</td>
<td>15-24</td>
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<tr>
<td>Other Graduate Courses</td>
<td>0-9</td>
</tr>
<tr>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>31</td>
</tr>
</tbody>
</table>

Student Guidance
The graduate program coordinator will serve as the initial faculty advisor for all students admitted into the program. By the end of the second semester, the coordinator will appoint a major advisor to the student. The major advisor, with concurrence of the coordinator and the chair of the department, will appoint a minimum three-person supervisory committee that will guide and mentor the student.

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

Hydrologic Sciences—see Interdisciplinary Programs
Course Offerings

See Course Numbering and Terminology for definitions.

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

CE — Civil Engineering
CE 452G STRUCTURAL STEEL DESIGN (2-3-3)(F/S). Design of steel structures, such as beams and columns, in accordance with latest AISC Manual of Steel Construction, LRFD edition. PREREQ: CE 352.
CE 460G GEOTECHNICAL ENGINEERING DESIGN (3-0-3)(F/S). Subsoil exploration and site investigation methodologies. Soil mechanics in design of earth retaining structures, shallow and deep foundations, embankments, slopes, and excavations. PREREQ: CE 360 and CE 361.
CE 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 ENGR 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 320 or PERM/INST.


CE 523 AIR POLLUTION CONTROL ENGINEERING (3-0-3)(F/S). Surveys the sources, affects, and controls 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 ENGR 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 ENGR 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 ENGR 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 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 555 STRUCTURES II (3-0-3)(S)(Odd years). Analysis and design of structural systems. Stiffness method including the development of element properties, coordinate transformations, and global analysis theory. Three-dimensional building systems and an introduction to the Finite Element Method. PREREQ: CE 352.

CE 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 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.

Department of Computer Science

Chair: Tim Andersen
Micron Engineering Center, Room 302J, Mail Stop 2055
Phone: (208) 426-5766
http://coen.boisestate.edu/cs/
E-mail: office@cs.boisestate.edu

Master of Science in Computer Science

Graduate Program Coordinator: Dianxiang Xu
Micron Engineering Center, Room 302A, Mail Stop 2055
Phone: (208) 426-5734
E-mail: dianxiangxu@boisestate.edu

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.

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

Application and Admission Requirements

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

A prospective student should follow the general graduate application
procedure for degree-seeking students (see Applying as a Degree-
Seeking Student in this catalog). The applicant must also arrange
to have GRE General Test scores submitted by the Educational
Testing Service (www.ets.org) directly to Boise State University
(code R4018). Applicants holding a baccalaureate degree from Boise
State University are not required to submit GRE scores. Application
materials should include resume, official transcripts, three letters of
recommendation, and an optional statement of interests.

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

• Applicants who meet the stated requirements and whose
  computer science background is deemed sufficient will be
  admitted to the program with Regular status.
• Applicants whose computer science background is deemed
deficient may be granted admission with Provisional status.
  In this case the applicant will be required to pass specific
  undergraduate computer science courses in order to remove the
deficiency and be granted Regular admission status.
• Unless otherwise specified, all deficiencies must be removed
  within two years of Provisional admission to the program. Time
  spent in Provisional status counts toward the limit of five years
  (or up to seven years if an extension is granted) allowed for
  completion of the degree.

Refer to the University-wide Graduate Courses section in this catalog for
additional course offerings.
Degree Requirements
The degree requirements described below allow the students a fair amount of flexibility in designing a program to fit his or her needs. The course work is to be chosen by the student, in consultation with his/her 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. In addition, the student's advisor and the Computer Science Graduate Committee must approve the student's proposed degree plan to ensure that it meets these criteria and forms a coherent program of study. All requirements for the degree must be completed within five years of initial enrollment in the program, unless 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.

Master of Science in Computer Science

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graduate Courses related to Computer Science</strong></td>
<td>21-27</td>
</tr>
<tr>
<td>Graduate courses in computer science or a related field; all</td>
<td></td>
</tr>
<tr>
<td>courses to be selected with student input and approved by the</td>
<td></td>
</tr>
<tr>
<td>supervisory committee.</td>
<td></td>
</tr>
<tr>
<td><strong>One of the following culminating activities</strong></td>
<td></td>
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<tr>
<td>Thesis or Project Option</td>
<td>3-9</td>
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<tr>
<td>CS 591 Project (3-6 cr)</td>
<td></td>
</tr>
<tr>
<td>CS 593 Thesis (6-9 cr)</td>
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<tr>
<td><strong>Total</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

Course Offerings

See Course Numbering and Terminology for definitions.

**CS — Computer Science**

**CS 501 AP COMPUTER SCIENCE PRINCIPLES (3-0-3)(F/S).** Introduction to fundamental concepts of computing. Includes logical reasoning, problem solving, data representation, abstraction, programming (in Processing language), debugging, and managing complexity. Basic ideas behind programming languages and computer systems. PREREQ: Admission to Master of Science in STEM Education.

**CS 503 TEACHING AND LEARNING COMPUTER SCIENCE I (4-3-5)(F/S).** 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.

**CS 505 TEACHING AND LEARNING COMPUTER SCIENCE II (4-0-4)(F/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 and CS 503.

**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 the program.

**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 CS 510 or regular admission to the program.

**CS 515 TEACHING AND LEARNING DATA STRUCTURES (4-0-4)(F/S).** Further data structures: trees, priority queues, dictionaries, balanced search trees, B-Trees, heaps, hash tables, and graphs. Sorting, searching and order statistics. Approaches and techniques to teach data structures in grades 6-12. PREREQ: Admission to Master of Science in STEM Education and CS 505.

**CS 518 INCLUSIVE STRATEGIES FOR TEACHING COMPUTER SCIENCE TO WOMEN AND MINORITIES (1-0-1)(S).** 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 and PERM/INST.

**CS 521 DESIGN AND ANALYSIS OF ALGORITHMS (3-0-3)(F/S).** Asymptotic analysis, recurrences, and amortized analysis. Divide-and-conquer, dynamic programming, greedy algorithms, and graph algorithms. Primal and dual methods for linear programming. PREREQ: CS 321 and CS 361, or regular admission to the program.

**CS 525 COMPUTER NETWORKS (3-0-3)(F/S).** OSI reference model. Performance analysis of protocols—mathematical modeling and simulation. Quality of Service, flow control, and scheduling. MAC and routing in wireless networks. PREREQ: CS 425, and MATH 361 or MATH 360, or regular admission to the program.

**CS 530 PARALLEL COMPUTING (3-0-3)(F)(Even Years).** Models of parallel computation. Fundamental design patterns used in parallel algorithms: embarrassingly parallel, partitioning, divide and conquer, software pipelining, synchronous computations and load balancing. Implementation of parallel programs using MPI, GPUs and Map-Reduce on parallel clusters. PREREQ: CS 53 and CS 321, or regular admission to the program.

**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 the program.

**CS 534 DATA SCIENCE AND ANALYTICS (3-0-3)(F)(Odd Years).** Foundations of data-intensive computing. Models and systems for storing, processing and analyzing large datasets. Data mining and machine learning techniques for modeling large datasets and streaming data. Review of recent research in the field. Application development for analyzing large datasets. Equal emphasis on developing theoretical and practical skills in the field. PREREQ: CS 410 or CS 430 or CS 510 or CS 530 or PERM/INST.

**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 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: CS 117 or CS 121, and ECE 330; or regular admission to the program. PREREQ for ECE 532: CS 121 and ECE 330.

**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 the program.

**CS 546 COMPUTER SECURITY (3-0-3)(F/S).** Computer and network security. Public-key and private-key cryptography, authentication, digital signatures, key exchange, key management, certification authorities, and distributed trust models. File system security, Mail system security, and Web security. Intruders, Trojan Horses, and viruses. Covert channels. Projects will involve using currently available security tools. PREREQ: CS 453 or regular admission to the program.

**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 the program.
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.

CS 552 OPERATING SYSTEMS (3-0-3)(F). Process management, concurrency, interprocess communication, synchronization, scheduling, memory management, file systems and security. Case studies of multiple operating systems. PREREQ: CS 230 and CS 253 and CS 321 and ECE 330, or regular admission to the program.

CS 554 ADVANCED OPERATING SYSTEMS (3-0-3)(S). In-depth exploration of the various components of an actual operating system. Includes modifying operating system code to observe behavior, adding new functionality, understanding how various parts work as well as other experiments. Special emphasis on soft and hard real-time operating systems. PREREQ: CS 453 or CS 552, or regular admission to the program.

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 the program.

CS 557 ARTIFICIAL INTELLIGENCE (3-0-3)(F/S). Course will include a survey of some of the following topics, plus a project: Principles of knowledge-based search techniques; automatic deduction; knowledge representation using predicate logic, semantic networks, connectionist networks, frames, rules; applications in problem solving, expert systems, game playing, vision, natural language understanding, learning, robotics; LISP programming. PREREQ: CS 321 and CS 354, or regular admission to the program.

CS 561 INTRODUCTION TO THE THEORY OF COMPUTATION (3-0-3)(S). Grammars, automata, Turing machines, decidability and complexity, language hierarchies, normal forms, NP-completeness, and reducibilities. Applications will be drawn from various areas of computer science. PREREQ: CS 321 or regular admission to the program.

CS 562 COMPLEXITY THEORY (3-0-3)(S). Abstract machines, relativizations, upper and lower bounds on complexity, recursive hierarchies and alternation, time-space interaction, parallel and randomized complexity classes, approximation algorithms. PREREQ: CS 361 or CS 561.

CS 564 VISUALIZATION TECHNIQUES (3-0-3)(S)(Even Year). 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.

CS 571 SOFTWARE ENGINEERING (3-0-3)(F). A formal study of the software development process. Topics include: lifecycle models, requirements definition, specification, design, implementation, validation, verification, maintenance, and reuse. Students work in small teams on significant projects. PREREQ: CS 230 and CS 321 or regular admission to the program.

CS 572 OBJECT-ORIENTED DESIGN PATTERNS (3-0-3)(F)(Even Years). Course will include a survey of selected aspects of contemporary software development methodology. Topics are taken from recent research articles. These topics include: definition of user requirements, formal specification of solutions, design and implementation techniques, validation and testing, verification, maintenance, and reuse. PREREQ: CS 321 or regular admission to the program.

CS 573 ADVANCED SOFTWARE ENGINEERING (3-0-3)(S). A study of secure design, secure programming, and security testing and verification. Includes formal specification of program requirements, security requirements analysis, threat modeling, ramifications for different activities of software development processes. Emphasizes the security principles, techniques, validation and testing, verification, maintenance, and reuse. PREREQ: CS 471 or regular admission to the program.

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. PREREQ: CS 321 or regular admission to the program.

CS 575 SOFTWARE SECURITY (3-0-3)(S)(Even Year). 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: CS 321 or PERM/INST.

SELECTED TOPICS (1-4 Variable). In depth study of current trends and advanced topics in targeted areas of computer science. PREREQ: CS 321 or CS 550.

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

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Department of Electrical and Computer Engineering

Interim Chair: Rebecca Mirsky  
Engineering Building, Room 240, Mail Stop 2075  
Phone: (208) 426-5788  
Fax: (208) 426-2470  
E-mail: ece@boisestate.edu

Graduate Degrees Offered

- Doctor of Philosophy in Electrical and Computer Engineering  
- Master of Engineering in Electrical Engineering  
- Master of Science in Electrical Engineering  
- Master of Science in Computer Engineering

Doctor of Philosophy in Electrical and Computer Engineering

Doctoral Program Coordinator: John Chiasson  
Micron Engineering Center, Room 202K, Mail Stop 2075  
Phone: (208) 426-4054  
Fax: (208) 426-2470  
http://coen.boisestate.edu/ece  
E-mail: johnchiasson@boisestate.edu

General Information

Boise State University offers a Doctor of Philosophy in Electrical and Computer Engineering through the Department of Electrical and Computer Engineering (ECE). The degree requires the completion of a prescribed course of study in ECE, satisfactory performance on the comprehensive examination and dissertation proposal, and independent completion of original research that results in a publicly defended dissertation that contributes significantly to ECE knowledge. Please refer to the “Regulations for the Doctor of Philosophy Programs” in the front section of the catalog.

Graduate Teaching and Research Fellowships

Electrical and Computer Engineering graduate applicants who wish to be considered for financial support should submit a completed Graduate Funding application along with a resume and transcript to the Department office located in the Engineering Building, Room 240. The priority application deadline is February 1 of each year. Late applications 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. Additional information on graduate funding opportunities is available from the ECE Department.

Doctoral Program Committee

The Doctoral Program Committee in ECE consists of the ECE Doctoral Program Coordinator, the program coordinators for the electrical engineering and computer engineering Master's programs, and the chair of the department. The duties of the Doctoral Program Committee include development of recommendations for admission of prospective graduate students, decision on transfer credits and required background courses, appointment of Supervisory Committees for graduate students, and administration of the comprehensive examination.

Supervisory Committee

The Supervisory Committee is charged with general guidance of the doctoral student, including design and approval of the program of study, administration of the oral dissertation proposal, supervision of the dissertation research, and participation in dissertation defense. The Supervisory Committee consists of a principal advisor from the student's chosen area of major emphasis who acts as chair, one member from the student's chosen area of minor emphasis, and at least one additional member, all of whom must be members of the University regular or research faculty and must also be members of the Graduate Faculty. One or more additional members may be appointed when such appointments enhance the function of the Committee. In all cases, regular or research faculty members of the Department of Electrical and Computer Engineering must constitute a majority of the Supervisory Committee.

Application and Admission Requirements

Admission Requirements  An applicant must satisfy the minimum admission requirements for the Graduate College (see Graduate Admission Regulations). Applicants are required to have a Bachelor's or Master's degree in electrical engineering or computer engineering from an ABET-accredited program or a baccalaureate or Master's degree in a closely related field from an accredited college or university, and must follow the application procedures specified below. Admission is competitive and the achievement of minimum requirements does not guarantee admission into the program.

Application Procedures  A prospective student may apply at any time and should follow the general graduate application procedure for degree-seeking students (see Applying as a Degree-Seeking student in this catalog). Admission to the program will be based on: 1) transcripts, 2) three professional references, 3) scores on the general test of the Graduate Record Examination (GRE), and 4) a two-page statement of teaching and research interests. Students whose native language is not English must submit either a TOEFL score of 587 or higher for the written examination, or a 95 Internet-based (iBT) examination, or an OBS score of 6.5 on the IELTS examination. Test scores must be submitted directly to Boise State University (code R4018). Once the applicant's file is complete, it will be evaluated by the ECE Doctoral Program Committee and an admission recommendation (regular, provisional, or denial) will be forwarded to the Dean of the Graduate College. In order to ensure proper mentoring of all graduate students, a recommendation for admission will not be forwarded unless a faculty member in ECE is available to serve as the major advisor. The graduate dean will make the final admission decision and notify the applicant and the ECE Doctoral Program Committee.
Degree Requirements

The program of study for the Doctor of Philosophy (Ph.D.) in Electrical and Computer Engineering will require at least 66 credits beyond the Bachelor’s Degree or 48 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 which is graded P (Pass) or F (Fail), ECE 689 Dissertation Proposal (P/F), and ECE 693 Dissertation which is initially graded IP (In-Progress) and later graded P or F depending on 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 graduate coursework can be applied towards the Ph.D. program. All programs of study must be approved by the student’s Supervisory Committee.

Areas of Concentration and Emphasis

At least 15 credits of coursework are required in a Major Area of Concentration. These credits are to be from 5xx and 6xx courses selected from one of the six ECE Areas: Computer Engineering, Circuits and Devices, Power and Control, Electromagnetics and Optics, Semiconductor Processes and Devices, or Signals and Systems. An additional 9 credits of coursework is required beyond the core sequence in an Emphasis or Minor Area also at the 5xx or 6xx level. This should be in one of the five remaining ECE Areas. The Areas are defined as follows: Computer Engineering (all ECE courses with a middle digit of 3), Circuits and Devices (all ECE courses with a middle digit of 1, 2), Power and Control (All ECE courses with a middle digit 6 or 7), Electromagnetics and Optics (All ECE courses with a middle digit 0 or 8), Semiconductor Processes and Devices (All ECE courses with a middle digit 2 or 4), and Signals and Systems (all ECE courses with a middle digit of 5, 6). Of these 24 credits, 12 must be at the 600-level.

The 600-level courses may be selected from core courses, major-area courses, minor-area courses or approved electives. The student can satisfy one-third (1/3) of the 66-credit requirement (i.e. 22 credits) using coursework completed prior to admission to the doctoral program. For example, 22 credits of graduate coursework from a master’s degree can be counted towards doctoral requirements.

Students will typically take at least 18 additional credits of coursework for the Ph.D., including:

- 2 credits of assessment (comprehensive exam, PhD proposal)
- 1 credit of Research Methods (ENGR 500).
- At least 24 credits of dissertation (ECE 693)

Ph.D. Examinations and Dissertation Requirements

Students admitted to the Ph.D. program will be required to pass a comprehensive exam and an oral dissertation proposal. As a culminating activity, the student will be required to present, and successfully defend, a doctoral research dissertation presenting significant research augmenting existing knowledge in the field of electrical and computer engineering.

Comprehensive Examination

The comprehensive examination is given yearly in August and January the week before the Fall and Spring terms, respectively. Generally, students entering the program with a Bachelor’s degree take the comprehensive examination after the third semester of study. Students entering with a Master's degree take the written comprehensive examination, generally, within their third term in the Ph.D. program. This examination will test depth and breadth of knowledge over 3 of the 6 core courses: ECE 500 (electromagnetics), ECE 510 (circuits), ECE 520 (devices), ECE 530 (digital), and ECE 550 (communications), ECE 560 (systems). The results of the comprehensive examination can lead to two possible outcomes: 1) pass or 2) fail. If the student fails the comprehensive examination they may take it again the following year. Failure a second time will result in dismissal from the doctoral program.

Dissertation Proposal

The oral dissertation proposal is designed to assess the suitability of a Ph.D. student for research in a specific area and will focus on advanced coursework and research in the student's dissertation area. Satisfactory completion is required for the student to become a Ph.D. candidate. The dissertation proposal should be presented before, or at the beginning of, the student's Ph.D. research and within one year of satisfactory completion of the comprehensive examination. To initiate the dissertation proposal, the student must submit a research proposal for their doctoral dissertation to their Supervisory Committee. After the Supervisory Committee reviews the proposal they can give their approval to proceed with scheduling the oral presentation or they can ask the student to make changes to the proposal and to resubmit it. The oral dissertation presentation consists of the student presenting their proposed doctoral research and answering questions about the proposal, related background material and the material covered in all courses listed in their program of study. If a student fails the oral presentation, they may be allowed to reinitiate the dissertation proposal once with the approval of the Supervisory Committee. Students who fail a second time or do not receive approval to resubmit the proposal will be dismissed from the program.
Dissertation Requirements

The dissertation must be the result of independent and original research by the student and must constitute a significant contribution to electrical and computer engineering knowledge equivalent to multiple peer-reviewed publications. The style and format of the dissertation are to conform to the standards of the Department of Electrical and Computer Engineering and the Graduate College.

Final Oral Examination

A public defense of the dissertation is scheduled after the Supervisory Committee has reviewed a draft that is considered to be nearly a final version. The date of the defense is determined jointly by the Supervisory Committee and the student and must be consistent with any guidelines provided by the Graduate College. A Defense Committee is formed that consists of the following voting members: an appointed chair, the chair and members of the Supervisory Committee, and an external examiner. The chair of the Defense Committee is appointed by the Dean of the Graduate College and must be a member of the Graduate Faculty, but must not be the chair or a member of the Supervisory Committee. The external examiner is a faculty member from another university who is a recognized expert in the field of the dissertation research and is appointed to the Defense Committee by the Dean of the Graduate College. Attendance at the defense by the external examiner is not required, but a written evaluation of the dissertation and a pass or fail vote must be submitted by the external examiner to the chair of the Defense Committee at least three weeks prior to the defense. The written evaluation provided by the external examiner is distributed to the other members of the Defense Committee at least two weeks before the defense. The chair of the Defense Committee conducts the defense according to the procedure established by the Doctoral Program Committee. A student who fails the defense may be permitted to try again, but failure a second time will result in dismissal from the program.

Final Approval of the Dissertation

If the defense is completed with a result of pass, the Supervisory Committee prepares a statement describing final requirements such as additions or modifications to the dissertation and any additional requirements such as archival of data. When these requirements have been met to the satisfaction of the Supervisory Committee, the approval page of the dissertation is signed by the members of the Committee.

Graduate College Requirements

The general requirements of the BSU Graduate College also govern the Doctor of Philosophy in Electrical and Computer Engineering degree program.

Master of Engineering/Master of Science

General Information

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

Graduate Assistantship

Electrical and Computer Engineering graduate applicants who wish to be considered for financial support should submit a completed Graduate Funding application along with a resume and transcript to the Department office located in the Engineering Building, Room 240. The priority application deadline is February 1 of each year. Late applications 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. Additional information on graduate funding opportunities is available from the ECE Department.

Application and Admission Requirements

Admission Requirements

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

Application Procedures

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

Additional application materials required for all applicants include:

- Statement of Purpose and Research Interest
- Three letters of recommendation
- Student Research Area Preferences form

International applicants must submit a statement of purpose to the graduate program coordinator and arrange for three letters of recommendation to be submitted directly by the references to the Boise State University International Admissions Office. The statement of purpose should give the educational and professional background of the student and his or her motivation for graduate study including career goals.

Once the applicant's file is complete, it will be evaluated by the Graduate Studies Committee and an admission recommendation (regular, provisional, or denial) will be forwarded to the Dean of the Graduate College. In order to ensure proper mentoring of all
graduate students, a recommendation for regular or provisional admission will not be forwarded unless a faculty member of the Department of Electrical and Computer Engineering is available to serve as the major advisor. The graduate dean will make the final admission decision and notify the applicant and the Graduate Studies Committee.

Advisor and Supervisory Committee

For a student admitted to the M.S. in Computer Engineering or the M.S. in Electrical Engineering program, the Graduate Committee Coordinator will appoint an academic advisor for the student. The role of the advisor is to guide the student in all aspects of his or her graduate study. For a student admitted to the M.Engr. in Computer Engineering or the M.Engr. in Electrical Engineering, the Graduate Studies Committee will appoint a major advisor; student mentoring will be provided by the major advisor and the chair of the department.

Special Rule on Transfer Credit

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

Master of Engineering in Computer Engineering

Graduate Program Coordinator: Nader Rafla
Micron Engineering Center, Room 202G, Mail Stop 2075
Phone: (208) 426-3711
E-mail: nrafla@boisestate.edu

Degree Requirements

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

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graduate Courses Related to Computer Engineering</strong></td>
<td>18-30</td>
</tr>
<tr>
<td>Graduate courses in computer engineering, computer science or electrical engineering; all courses to be selected with student input and approved by the supervisory committee.</td>
<td></td>
</tr>
<tr>
<td><strong>Other Graduate Courses</strong></td>
<td>0-12</td>
</tr>
<tr>
<td>Graduate courses in computer engineering or a related field; all courses to be selected with student input and approved by the supervisory committee.</td>
<td></td>
</tr>
<tr>
<td><strong>Comprehensive Examination</strong></td>
<td>1</td>
</tr>
<tr>
<td>ECE 690 Master’s Comprehensive Examination (P/F)</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>31</td>
</tr>
</tbody>
</table>

Master of Science in Computer Engineering

Graduate Program Coordinator: Nader Rafla
Micron Engineering Center, Room 202G, Mail Stop 2075
Phone: (208) 426-3711
E-mail: nrafla@boisestate.edu

Degree Requirements

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

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Graduate Courses Related to Computer Engineering</strong></td>
<td>15-24</td>
</tr>
<tr>
<td>Graduate courses in computer engineering; computer science, or electrical engineering; all courses to be selected with student input and approved by the supervisory committee.</td>
<td></td>
</tr>
<tr>
<td><strong>Other Graduate Courses</strong></td>
<td>0-9</td>
</tr>
<tr>
<td>Graduate courses in computer engineering or a related field; all courses to be selected with student input and approved by the supervisory committee.</td>
<td></td>
</tr>
<tr>
<td><strong>Thesis</strong></td>
<td>6</td>
</tr>
<tr>
<td>ECE 593 Thesis (P/F)</td>
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<tr>
<td><strong>Total</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

Master of Engineering in Electrical Engineering

Graduate Program Coordinator: Nader Rafla
Micron Engineering Center, Room 202G, Mail Stop 2075
Phone: (208) 426-3711
E-mail: nrafla@boisestate.edu

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 the degree requirements. The comprehensive examination cannot be attempted 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.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Graduate Courses Related to Electrical Engineering</strong></td>
<td>18-30</td>
</tr>
<tr>
<td>Graduate courses in electrical engineering; all courses to be selected with student input and approved by the supervisory committee.</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>31</td>
</tr>
</tbody>
</table>
Master of Engineering in Electrical Engineering (continued)

Other Graduate Courses
Graduate courses in electrical engineering or a related field; all courses to be selected with student input and approved by the supervisory committee.

Comprehensive Examination
ECE 690 Master’s Comprehensive Examination (P/F) 1

Total 31

Master of Science in Electrical Engineering

Graduate Program Coordinator: Nader Ralla
Micron Engineering Center, Room 202G, Mail Stop 2075
Phone: (208) 426-3711
E-mail: nrafla@boisestate.edu

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.

Course Number and Title Credits
Graduate Courses Related to Electrical Engineering 15-24
Graduate courses in electrical engineering; all courses to be selected with student input and approved by the supervisory committee.

Other Graduate Courses 0-9
Graduate courses in electrical engineering or a related field; all courses to be selected with student input and approved by the supervisory committee.

Thesis ECE 593 Thesis (P/F) 6

Total 30

Course Offerings

See Course Numbering and Terminology for definitions.

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. PREREQ: ECE 300 or PHYS 382.

ECE 501 PLASMA ENGINEERING (3-0-3)(F/Odd years). An introduction to plasma principles and the use of plasmas 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. PREREQ: MATH 275, MATH 333 or MATH 433, and PHYS 212.

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 datapath subsystems. EDA tools for design, simulation, parasitic extraction and chip tape-out. PREREQ: ECE 310.

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. PREREQ: ECE 300 and ECE 310 and ECE 350.

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)(F/S). MOSFET device physics, scaling rules, analytical short channel models, hot-electron effects/modeling, LDD design, gate oxide breakdown and reliability, TDDB, GIDL, channel mobility, electromigration, BSIM3 device modeling, 2-D TCAD device simulation. PREREQ: ECE 320.

ECE 520L ADVANCED DEVICE CHARACTERIZATION LAB (0-3-1)(F/S). Advanced measurement and parameter extraction techniques for MOSFETs. High frequency CV, Quasistatic CV, Charge-Pumping measurements. PREREQ: ECE 320.

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). 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. PREREQ: ECE 230 and CS 221.

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: CS 117 or CS 121, and ECE 330; or regular admission to the program. PREREQ for ECE 532: CS 121 and ECE 330.

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. PREREQ: ECE 330.

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/DSPs/Superscalar 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. PREREQ: ECE 320. COREQ: ECE 540L.

ECE 540L INTRO TO INTEGRATED CIRCUIT PROCESSING LAB (0-3-1)(F). Seminar, 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, thin film deposition, etching, rapid thermal processing, chemical mechanical polishing, and lithography. CMOS, bipolar, and process integration. PREREQ: ECE 440 or ECE 540.

ECE 542 PHOTOLOITHOGRAPHY (3-0-3)(S). Principles of optics, diffraction, interference, superposition of waves, imaging systems, fundamentals of photolithography, resolution, contact and projection lithography, photore sist processing, metrology. PREREQ: ECE 542. COREQ: ECE 542.

ECE 543 INTRODUCTION TO MEMS (3-0-3)(F/S). Overview of MEMS; 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. PREREQ: ECE 350, and MATH 360 or MATH 361.

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. PREREQ: ECE 360 or ME 360.

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. PREREQ: ECE 360 or ME 360.

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. PREREQ: ECE 212 and ECE 300.

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. PREREQ: ECE 212.

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. PREREQ: ECE 212 and ECE 300.

ECE 574 POWER SYSTEM ANALYSIS II (3-0-3)(S). Fault analysis, symmetrical components, power system transients, protection and relaying, 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). 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 ELECTRONIC DEVICES (3-0-3)(F). 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 501.

ECE 614 ADVANCED ANALOG IC DESIGN (3-0-3)(F). 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). 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 629 QUANTUM EFFECTS IN MOS DEVICES (3-0-3)(F). Computational methods will be used to examine quantum mechanical effects in MOS devices.
effects 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)(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 diagnostic; built-in self-testing (BIST); VLSI testing issues; processor and memory testing. Advanced 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 436/536.

**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 436/536.

**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).** 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 681 MMC 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.

*Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.*
Department of Materials Science and Engineering

Chair: Peter Müllner
Engineering Building, Room 338D, Mail Stop 2090
Phone: (208) 426-5600
E-mail: petermullner@boisestate.edu

Director for Academic and Technical Advancement: Chad Watson
Engineering Building, Room 338, Mail Stop 2090
Phone: (208) 426-5600
E-mail: msegrad@boisestate.edu

Graduate Degrees Offered

• Doctor of Philosophy in Materials Science and Engineering
  (See Interdisciplinary Programs)
• Master of Engineering in Materials Science and Engineering
  (See Interdisciplinary Programs)
• Master of Science in Materials Science and Engineering
  (See Interdisciplinary Programs)

General Information

The Department of Materials Science and Engineering offers three distinct graduate degree programs. The Doctor of Philosophy in Materials Science and Engineering degree requires completion of a prescribed course of study, satisfactory performance on a comprehensive exam, and completion of independent research that results in a publicly defended dissertation than contributes to the broad field of materials science and engineering. The program leading to the Master of Science in Materials Science and Engineering is a thesis-based program designed to prepare students for research and development and further study at the doctoral level. The program leading to the Master of Engineering in Materials Science and Engineering is a non-thesis program with a focus on professional development. 

(See the Interdisciplinary Programs section for program descriptions and course offerings.)

Department of Mechanical and Biomedical Engineering

Chair: Don Plumlee
Engineering Building, Room 201, Mail Stop 2085
Phone: (208) 426-3575
Fax: (208) 426-4800
E-mail: dplumlee@boisestate.edu

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 (M.S. ME) is a thesis-based program designed to prepare students for research and development and further study at the doctoral level. The program leading to the Master of Engineering in Mechanical Engineering (M.Engr. ME) is a non-thesis program with a focus on professional development.

Application and Admission Requirements

Admission Requirements

An applicant must hold a baccalaureate degree in mechanical engineering from an ABET-accredited program or a baccalaureate degree from a closely related science or engineering field. An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations). In addition, the applicant must satisfy the following specific requirements set by the department.

1. A minimum cumulative GPA of 3.0 computed for all undergraduate credits or a 3.0 GPA computed for the last 60 undergraduate credits.
2. A minimum GRE combined (verbal plus quantitative) score of 304 (i.e., 1100 in the old scoring system) with a minimum GRE quantitative score of 153 (i.e., 680 in the old scoring system) is required. Applicants holding a B.S. degree from the College of Engineering at Boise State University are not required to submit a GRE score.

Admission to the graduate program is competitive and the achievement of minimum requirements does not guarantee admission.

Application Procedures

Applicants are strongly encouraged to apply ahead of the deadlines. A prospective student who is seeking a graduate assistantship must apply by February 1st for Fall admission and by July 1st for Spring admission. A prospective student who is not seeking financial aid must apply by the application deadlines of the Graduate College (see Application Deadlines for Degree-Seeking Students section).
The applicant should follow the general graduate application procedure for degree-seeking students (see Applying as a Degree-Seeking student in this catalog). In addition to the application materials required by the Graduate College, the applicant must also submit the following application materials to the Department of Mechanical and Biomedical Engineering by the aforementioned deadlines:

1. a statement of purpose that describes the applicant’s educational and professional background, career goals, and his or her motivation for graduate study,
2. three letters of recommendation (preferably from academic resources) submitted directly by the references to the graduate secretary. Recommendation letter should address the applicant’s qualification and suitability for graduate study,
3. GRE General Test scores from the Educational Testing Service (www.ets.org) submitted directly to Boise State University (code R4018) if the applicant does not hold a B.S. degree from the College of Engineering at Boise State University.

Questions on application procedure, status or the graduate program in general should be e-mailed to MBEgradapps@boisestate.edu. Once the applicant’s file is complete, it will be evaluated by the Mechanical Engineering Graduate Program Committee, and an admission recommendation (regular, provisional, or denial) will be forwarded to the Dean of the Graduate College. In order to ensure proper mentoring of all graduate students, a recommendation for regular or provisional admission will not be forwarded unless a faculty member of the Department of Mechanical and Biomedical Engineering is available to serve as the major advisor. The graduate dean will make the final admission decision and notify the applicant and the Mechanical Engineering Graduate Program Committee.

Graduate Assistantships Graduate assistantships within the department are highly competitive and may consist of a stipend and a 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.

Advisor and Supervisory Committee

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

### Master of Engineering in Mechanical Engineering

Graduate Program Coordinator: John Gardner
Yanke, Room 905, Mail Stop 1012
Phone: (208) 426-5702
E-mail: jgardner@boisestate.edu

#### 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 will be permitted a second attempt. Failure on the second attempt will result in dismissal from the program.

<table>
<thead>
<tr>
<th>Master of Engineering in Mechanical Engineering</th>
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<tbody>
<tr>
<td>Course Number and Title</td>
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<tr>
<td>Mechanical Engineering and Mathematics Core</td>
</tr>
<tr>
<td>MATH 536 Partial Differential Equations or MATH 537 Principles of Applied Mathematics (3 cr) ME 510 Continuum Mechanics (3 cr)</td>
</tr>
<tr>
<td>Select one of the following courses:</td>
</tr>
<tr>
<td>MATH 565 Numerical Analysis I (3 cr) MATH 571 Data Analysis(3 cr) MATH 572 Computational Statistics (3 cr) ME 536 Computational Fluid Dynamics (3 cr) ME 570 Finite Element Methods (3 cr) ME 571 Parallel Scientific Computing (3 cr) Another course with a computational emphasis approved by the student's advisor (3 cr)</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>
</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>
</tr>
<tr>
<td>Comprehensive Examination ME 690 Master’s Comprehensive Examination</td>
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<td>Total</td>
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</tbody>
</table>
Master of Science in Mechanical Engineering

Graduate Program Coordinator: John Gardner
Yanke, Room 905, Mail Stop 1012
Phone: (208) 426-5702
E-mail: jgardner@boisestate.edu

Degree Requirements

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

Special Rule on Transfer Credit

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

Master of Science in Mechanical Engineering

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Mechanical Engineering and Mathematics Core</strong></td>
<td>9</td>
</tr>
<tr>
<td>MATH 536 Partial Differential Equations or</td>
<td></td>
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<tr>
<td>MATH 537 Principles of Applied Mathematics (3 cr)</td>
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<tr>
<td>ME 510 Continuum Mechanics (3 cr)</td>
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</table>

| Select one of the following courses: | |
| MATH 565 Numerical Analysis I (3 cr) | |
| MATH 571 Data Analysis (3 cr) | |
| MATH 572 Computational Statistics (3 cr) | |
| ME 536 Computational Fluid Dynamics (3 cr) | |
| ME 570 Finite Element Methods (3 cr) | |
| ME 571 Parallel Scientific Computing (3 cr) | |
| Another course with a computational emphasis approved by the student's advisor (3 cr) | |

| Mechanical Engineering Graduate Courses | 6-15 |
| Courses with ME prefix to be selected with student input and approved by the supervisory committee. | |

| Non-Mechanical Engineering Graduate Courses | 0-9 |
| 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. | |

| Thesis | 6 |
| ME 593 Thesis | |

Total 30

Course Offerings

See Course Numbering and Terminology for definitions.

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 or ME 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, ENGR 320 or ME 302, and CE 330 or ENGR 330 or ME 330.

ME 530 FLUID DYNAMICS (3-0-3)(F/S). Advanced fluid mechanics theory and applications in potential flow, boundary layer theory, viscous flow, turbulence, vorticity dynamics and circulation, compressible flow and gas dynamics, open channel flow, turbomachinery, stratified flow, laws, and introduction to computational fluid dynamics. PREREQ: CE 330 or ENGR 330 or ME 330, MATH 275, and MATH 333.

ME 532 ACOUSTICS (3-0-3)(F/S). Basic theories of acoustics, wave equations, acoustic response, sound generation, transmission, and attenuation. Measurement techniques and nomenclature. PREREQ: CE 330 or ENGR 330 or ME 330, and MATH 333.

ME 533 DYNAMIC METEOROLOGY (3-1-3)(F/S). Atmospheric dynamics, conservation laws, planetary boundary layers, large scale motions and circulations, numerical modeling, prediction, meteorological resources, weather analysis, and forecasting. PREREQ: MATH 275 and MATH 333.

ME 536 COMPUTATIONAL FLUID DYNAMICS (3-0-3)(F/S). Theory and numerical modeling in fluid dynamics. Finite difference, finite volume, and finite element techniques will be treated. The course will include projects and research applications in engineering and environmental flows. PREREQ: CE 330 or ENGR 330 or ME 330, and PERM/INST.

ME 537 CONDUCTION HEAT TRANSFER (3-0-3)(F/S). Steady and unsteady conduction of heat through solids, liquids, and gases. Analytical and numerical solution methods for ordinary and partial differential equations modeling heat transfer. PREREQ: Graduate standing or PERM/INST.

ME 538 CONVECTIVE HEAT TRANSFER (3-0-3)(F/S). Treatment of energy and linear momentum conservation equations; laminar and turbulent forced convective HT in internal and external flow fields; free convection. PREREQ: ME 320.

ME 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 550 ADVANCED MECHANICS OF MATERIALS (3-0-3)(F/S). Extension of stress-strain concepts to three-dimensions, plate and shell analysis, failure theories, and fatigue. Analysis and visualization techniques include Finite Element Analysis and photoelasticity. PREREQ: CE 350 or ENGR 350 or ME 350.

ME 560 COMPUTER AIDED DESIGN (3-0-3)(F/S). Computer programs used to develop 3-D CAD database for design, analysis, simulation, and manufacturing. Machinery design to meet functional, performance, reliability and manufacturing requirements. Design projects reinforce concepts and methodologies. For students desiring higher level CAD 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. PREREQ: ECE 360 or ME 360.

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 ENGR 350 or ME 350, and PERM/INST.

ME 571 PARALLEL SCIENTIFIC COMPUTING (3-0-3)(F/S). Introduction to parallel scientific 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: MATH 333, and 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 department. PREREQ: ENGR 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, ENGR 245, and CE 350 or ENGR 350 or ME 350.

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

Department of Organizational Performance and Workplace Learning

Chair: Donald Stepich
Engineering Building, Room 327, Mail Stop 2070
Phone: (208) 426-2339
Fax: (208) 426-1970
http://opwl.boisestate.edu
E-mail: dstepich@boisestate.edu

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, training 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 develop 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 designed for individuals who wish to develop 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 wish 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 primarily through asynchronous computer conferencing via the Web or Lotus Notes client software. 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.
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 Dean of the Graduate College. 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 Dean of the Graduate College. Simultaneous enrollment in more than two graduate programs is prohibited.

Please note that admission to a certificate program does not guarantee admission to the degree program and vice versa. Credits earned in an OPWL certificate program may be applied to the Master of Science degree in OPWL.

Graduate Assistantships

A limited number of full-time and part-time “virtual” graduate assistantships are available each academic year and include a stipend and a waiver of fees. Graduate assistants must be fully admitted into the OPWL master’s degree program. Full time assistants work 20 hours per week, enroll in a minimum of and receive a fee waiver for 9 credits each semester, and a $10,000 stipend paid out over two semesters. Part-time assistants work 10 hours per week, enroll in a minimum of and receive a fee waiver for 5 credits each semester, and a $5,000 stipend paid out over two semesters. Applications are available from the OPWL office and Graduate College offices and websites.

Admission and Application Requirements

Admission Requirements

Requirements for admission to the M.S. degree program and/or the OPWL certificate programs are:

1. Documented evidence of an earned baccalaureate degree from an accredited institution.
2. A GPA of 3.0 computed for all undergraduate credits or a 3.0 computed for the last half of the undergraduate credits. Applicants who do not meet this requirement may submit a petition to the OPWL Graduate Program Coordinator.
3. A fit between the applicant’s career goals and the OPWL program to which s/he is applying.

Application Procedures

An applicant to the M.S. degree program and/or the OPWL certificate programs must follow the general Graduate College application procedures (see the Graduate Admission Regulations section of this catalog). In addition, for each program, applicants must submit the following:

1. Resume.
2. Statement of Purpose, which should meet the following requirements: Heading that includes name, email address, telephone and the program(s) to which applicant is applying; 500-1,000 words, single-spaced; addresses career goals and how the course work for the program or programs will help attain those goals; explains the strategies applicant will use to be successful in graduate study; and that meets the evaluation criteria as outlined on the OPWL website (opwl.boisestate.edu).

Once the application is complete, it will be reviewed by the OPWL Graduate Program Coordinator, who will provide an admission recommendation to the Dean of the Graduate College. The Dean will make the final admission decision and notify the applicant.

Master of Science in Organizational Performance and Workplace Learning

Graduate Program Coordinator: Donald Stepich
Engineering Building, Room 327, Mail Stop 2070
Phone: (208) 426-2339
Fax: (208) 426-1970
http://opwl.boisestate.edu
E-mail: dstepich@boisestate.edu

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Core Requirements</td>
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<tr>
<td>OPWL 529 Needs Assessment</td>
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<tr>
<td>OPWL 530 Evaluation</td>
<td>4</td>
</tr>
<tr>
<td>OPWL 535 Principles of Adult Learning</td>
<td>4</td>
</tr>
<tr>
<td>OPWL 536 Foundations of Organizational Performance and Workplace Learning</td>
<td>4</td>
</tr>
<tr>
<td>OPWL 537 Instructional Design</td>
<td>4</td>
</tr>
<tr>
<td>OPWL 560 Workplace Performance Improvement</td>
<td>4</td>
</tr>
<tr>
<td>Thesis Option</td>
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<tr>
<td>OPWL 531 Quantitative Research in Organizations (3 cr)</td>
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<tr>
<td>OPWL 532 Ethnographic Research in Organizations (3 cr)</td>
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<tr>
<td>OPWL 593 Thesis (Oral defense required) (6 cr)</td>
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<tr>
<td>Portfolio Option</td>
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<td>OPWL 531 Quantitative Research in Organizations or OPWL 532 Ethnographic Research in Organizations (3 cr)</td>
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<tr>
<td>Electives (8 cr)</td>
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<tr>
<td>OPWL 592 Portfolio (Oral defense required) (1 cr)</td>
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</table>
College of Engineering
Department of Organizational Performance and Workplace Learning

Graduate Certificate in Workplace E-Learning and Performance Support
Graduate Program Coordinator: Donald Stepich
Engineering Building, Room 327, Mail Stop 2070
Phone: (208) 426-2339
http://opwl.boisestate.edu
E-mail: dstepich@boisestate.edu

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<tbody>
<tr>
<td>OPWL 523 Rapid E-Learning Development</td>
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<tr>
<td>OPWL 525 E-Learning Principles and Practices</td>
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<tr>
<td>OPWL 536 Foundations of Organizational Performance and</td>
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<tr>
<td>Workplace Learning</td>
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<tr>
<td>OPWL 550 Blended Learning for Performance Improvement</td>
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<tr>
<td>OPWL 551 E-Learning Content Design</td>
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<td><strong>Total</strong></td>
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Graduate Certificate in Workplace Instructional Design
Graduate Program Coordinator: Donald Stepich
Engineering Building, Room 327, Mail Stop 2070
Phone: (208) 426-2339
http://opwl.boisestate.edu
E-mail: dstepich@boisestate.edu

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<tbody>
<tr>
<td>Core Course</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</td>
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<td>Workplace Learning</td>
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<tr>
<td>OPWL 537 Instructional Design</td>
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<tr>
<td>OPWL 538 Instructional Strategies</td>
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<td>OPWL 547 Advanced Instructional Design for the Workplace</td>
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<td><strong>Total</strong></td>
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Graduate Certificate in Workplace Performance Improvement
Graduate Program Coordinator: Donald Stepich
Engineering Building, Room 327, Mail Stop 2070
Phone: (208) 426-2339
http://opwl.boisestate.edu
E-mail: dstepich@boisestate.edu

Certificate Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>OPWL 529 Needs Assessment or OPWL 530 Evaluation</td>
<td>4</td>
</tr>
<tr>
<td>OPWL 536 Foundations of Organizational Performance and</td>
<td>4</td>
</tr>
<tr>
<td>Workplace Learning</td>
<td></td>
</tr>
<tr>
<td>OPWL 560 Workplace Performance Improvement</td>
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</tr>
<tr>
<td>OPWL 577 Change Management</td>
<td>3</td>
</tr>
<tr>
<td>OPWL 578 Designing Sustainable Organizations</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Course Offerings
See Course Numbering and Terminology for definitions.

OPWL — Organizational Performance and Workplace Learning

OPWL 523 RAPID E-LEARNING DEVELOPMENT (3-0-3)(S,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)(S,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 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 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. PREREQ: OPWL 536.

OPWL 531 QUANTITATIVE RESEARCH IN ORGANIZATIONS (3-0-3)(F). 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. PREREQ: OPWL 536 or PERM/INST.

OPWL 532 ETHNOGRAPHIC RESEARCH IN ORGANIZATIONS (3-0-3)(S). Ethnography is an approach to learning about the social and cultural life of communities, organizations, institutions and other settings that discovers how the activities of people in those settings contribute to the creation of society and culture. Students receive a foundation in philosophical perspectives and methods supporting ethnographic research, learn when to conduct ethnographic research, and explore strategies for presenting and critiquing ethnographic research. They will also be provided with an opportunity to implement ethnographic research in organizational settings. PREREQ: OPWL 536 or PERM/INST.
OPWL 535 PRINCIPLES OF ADULT LEARNING (4-0-4)(F,S). 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). 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)(F,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. PRE/COREQ: OPWL 536.

OPWL 547 ADVANCED INSTRUCTIONAL DESIGN FOR THE WORKPLACE (3-0-3)(S,SU). 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)(SU). 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. PRE/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). 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)(F). 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 585 THINKING IN SYSTEMS
OPWL 586 PROFESSIONAL ETHICS
OPWL 587 EVIDENCE BASED PRACTICE
OPWL 588 LIBRARY SKILLS FOR RESEARCH
OPWL 589 VIRTUAL TEAMS

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
COLLEGE of HEALTH SCIENCES
College of Health Sciences

Department of Community and Environmental Health

Chair: Dale Stephenson
Health Science Riverside, Room 117, Mail Stop 1835
Phone: (208) 426-3929
Fax: (208) 426-2199
http://hs.boisestate.edu/MHS

Graduate Degrees Offered

• Master of Health Science, Environmental Health
• Master of Health Science, Evaluation and Research
• Master of Health Science, Health Policy
• Master of Health Science, Health Promotion
• Master of Health Science, Health Services Leadership
• Graduate Certificate in Addiction Studies

Department of Kinesiology

• Master of Athletic Leadership
• Master of Kinesiology in Behavioral Studies
• Master of Kinesiology in Biophysical Studies
• Master of Kinesiology in Socio-historical Studies
• Master of Kinesiology in Physical Education Pedagogy
• Master of Science in Kinesiology Behavioral Studies
• Master of Science in Kinesiology Biophysical Studies
• Master of Science in Kinesiology Socio-historical Studies
• Master of Science in Physical Education Pedagogy

School of Nursing

• Doctor of Nursing Practice
• Master of Nursing
• Master of Nursing, Adult-Gerontology Nurse Practitioner, Acute Care Option
• Master of Nursing, Adult-Gerontology Nurse Practitioner, Primary Care Option
• Master of Science in Nursing
• Graduate Certificate in Adult-Gerontology Nurse Practitioner—Acute Care
• Graduate Certificate in Adult-Gerontology Nurse Practitioner—Primary Care

School of Social Work

• Master of Social Work, Advanced Standing
• Master of Social Work, Two Year Program
• Graduate Certificate in Refugee Services

Interdisciplinary Programs

• Graduate Certificate in Addiction Studies
  (See Interdisciplinary Programs)
• Graduate Certificate in Gerontological Studies
  (See Interdisciplinary Programs)

General Information

The Master of Health Science (MHS) program is designed primarily for the working health professional employed in state and local health agencies, health care institutions, and in private practice. The program, with its areas of emphasis in health policy, environmental health, general health research, health promotion and health services leadership prepares health professionals to be more effective as advocates, administrators and critics of our health delivery systems. It is designed to serve the working professional without interrupting their employment, yet meet the necessary standards for graduate level work. Students can complete a MHS degree and/or a Graduate Certificate in Addiction Studies, Health Services Leadership, or Gerontological Studies.

Although the MHS program is administered by the College of Health Sciences, graduate faculty are drawn from several programs across campus, including Public Affairs, Economics, Kinesiology, Sociology, Psychology, and Biology. The Master of Public Administration (MPA) program, with lead responsibility in the area of public policy, is a key partner in the health policy area of concentration.
Application and Admission Procedures

An applicant must follow the general application procedures for degree-seeking students (see the Graduate Admission Regulations section of this catalog) and must 1) meet with the program director to discuss the admission process, the applicant’s career interests, and reasons for seeking admission to the program, 2) arrange to have three letters of recommendation submitted directly by the references to the graduate program director 3) submit a formal statement of at least 250 words explaining the applicant’s educational and career objectives and how those objectives correspond with the MHS program and 4) complete a proctored writing examination (contact program director to arrange for such an examination to be completed). Applicants whose native language is not English must submit TOEFL scores. Once the file for an applicant is complete, it will be evaluated by the MHS Admissions Committee and an admissions recommendation (regular, provisional, or denial) will be forwarded to the dean of the Graduate College who will make the final decision and notify the applicant.

Conditions for Admission

The conditions for admission are the minimum admission requirements for the Graduate College (see the Graduate Admission Regulations section of this catalog). Preference will be given to applicants with education and work experience in a health-related field. These conditions are necessary for admission to the program but do not guarantee admission.

Advisor and Supervisory Committee

The MHS director will serve as the academic advisor for each student admitted to the program and is responsible for maintaining oversight for each student’s academic progress. Each student who chooses to complete a thesis or project will be responsible for forming a supervisory committee consisting of a major advisor who serves as chair and at least two additional members. The role of the supervisory committee is to guide the student in all aspects of his or her thesis or project research. For thesis and project students, the major advisor also replaces the program director as academic advisor.

Graduate Assistantships

Graduate assistantships covering tuition and fee waivers may be available through research grants and contracts. Contact the MHS director for information on assistantships which may be available from these sources.

Degree Requirements

A minimum of 36 credits is required for graduation (excluding internship credits). The MHS student who attends full time will normally be enrolled for a two-year sequence including summers. Typically, however, students maintain their current employment positions and attend the program part-time, thereby extending the length of time required to obtain the degree.

The curriculum (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 may receive one grade less than B (i.e., a B- or below) in a course, however, at the time he or she will be placed on academic probation in the program. A grade of less than B in any future 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 will not remove a student from academic probation 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.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<tbody>
<tr>
<td>MHLTHSCI 505 Health Science Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>MHLTHSCI 520 Health Care Systems Organization and Administration</td>
<td>2</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>
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<tr>
<td>MHLTHSCI 692 Capstone Course</td>
<td>2</td>
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*Prerequisites include MHLTHSCI 505
**Prerequisites include introductory course in epidemiology and MHLTHSCI 552 or equivalent.

Total 18

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<tr>
<td>MHLTHSCI 510 Advanced Environmental Health (3 cr)</td>
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<tr>
<td>MHLTHSCI 560 Public Health Disaster Preparedness Planning: Risk Management (3 cr)</td>
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<tr>
<td>MHLTHSCI 570 (KINES 570) Health Promotion (3 cr)</td>
<td></td>
</tr>
<tr>
<td>PUBADM 541 Environmental and Regulatory Policy and Administration (3 cr)</td>
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<tr>
<td>PUBADM 542 Science, Democracy and Environment (3 cr)</td>
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</table>

In addition, students need one 3 credit elective course and 6 credits of thesis or project or 12 credits of additional electives.

Total 36-39

All applicants for the environmental health emphasis must have met the science requirements for a bachelor's degree in environmental health. Persons who have no experience in environmental health will also be required to take MHLTHSCI 590 Practicum.

<table>
<thead>
<tr>
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<tbody>
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<tr>
<td>OPWL 532 Ethnographic Research in Organizations or SOC 502 Qualitative Social Research Methods</td>
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<tr>
<td>MHLTHSCI 572 (KINES 572) Grant Writing</td>
<td>3</td>
</tr>
<tr>
<td>MHLTHSCI 580 Selected Topics in Research</td>
<td>3</td>
</tr>
</tbody>
</table>

continued
Master of Health Science, Evaluation and Research (continued)

Select 3 credits from the following:
- OPWL 529 Needs Assessment (4 cr)
- MHLTHSCI 550 Current Issues in Health Policy (3 cr)
- MHLTHSCI 570 (KINES 570) Health Promotion (3 cr)
- SOC 500 Advanced Social Statistics (3 cr)
- MHLTHSCI 593 Thesis (6 cr)

Total 36

Master of Health Science, Health Policy

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHS Graduate Core</td>
<td>18</td>
</tr>
<tr>
<td>ECON 440G Health Economics</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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<tr>
<td>PUBADM 502 Organization Theory</td>
<td>3</td>
</tr>
<tr>
<td>MHLTHSCI 550 Current Issues in Health Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition, students need 4 credits of thesis/project or 6 credits of elective course work.

Total 37-39

Master of Health Science, Health Promotion

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MHLTHSCI 550 Current Issues in Health Policy</td>
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<tr>
<td>MHLTHSCI 570 (KINES 570) Health Promotion</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 438G Community Psychology</td>
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</tr>
</tbody>
</table>

Select 3 credits from the following:
- MHLTHSCI 529 Marketing for Health Professionals (3 cr)
- MHLTHSCI 572 (KINES 572) Grant Writing (3 cr)
- PSYC 331G The Psychology of Health (3 cr)
- PUBADM 504 Public Budgeting and Financial Administration (3 cr)
- SOC 502 Qualitative Social Research Methods (3 cr)

In addition, students need 6 credits of thesis/project or 9 credits of elective course work.

Total 36-39

Master of Health Science, Health Services Leadership

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MHS Graduate Core</td>
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<tr>
<td>DISPUT 501 Human Factors in Conflict Management</td>
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</tr>
<tr>
<td>DISPUT 502 Negotiation Theory and Practice</td>
<td>1</td>
</tr>
<tr>
<td>DISPUT 505 Culture and Conflict</td>
<td>1</td>
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<tr>
<td>ECON 440G Health Economics</td>
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<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>
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</tbody>
</table>

In addition, students need 6 credits of thesis/project or 9 credits of elective course work.

Total 36-39

Thesis/Project Options

The thesis or project provides Health Science graduate students an opportunity to consolidate the knowledge and skills gained during their graduate studies and to carry out an independent scholarly inquiry of a health science topic. Total credits for thesis or project vary from 4 to 6 and are determined by requirements of the emphasis area. No student may enroll for thesis or project credits until successfully completing MHLTHSCI 505 Health Science Research Methods, MHLTHSCI 555 Program Evaluation in the Health Sciences, and being advanced to candidacy following completion of at least 18 credits of selected course work.

Addiction Studies—see Interdisciplinary Programs

Gerontological Studies—see Interdisciplinary Programs

Graduate Certificate in Health Services Leadership

Graduate Program Director: Sarah E. Toevs
Health Sciences Riverside Building, Room 106, Mail Stop 1835
Phone: (208) 426-2452
Fax: (208) 426-2199
http://hs.boisestate.edu/MHS
E-mail: stoevs@boisestate.edu

The postgraduate Certificate in Health Services Leadership is designed for health professionals employed in state and local health agencies, health care institutions and in private practice. The goal of the certificate program is to prepare students for a variety of leadership and management positions in health related organizations.

Application and Admission Requirements

Students interested in the Graduate Certificate in Health Services Leadership must first submit a graduate application to Graduate Admission and Degree Services. If approved, the applicant receives a certificate of admission to enroll in courses at Boise State. This certificate is a prerequisite to admission into the Graduate Certificate program, but does not by itself guarantee admission into the certificate program. (The student is advised to consult the General Admission Policies section of this catalog for more detail on admission to the Graduate College.)

Applicants admitted to the Graduate College who wish to apply to the Graduate Certificate in Health Services Leadership program must meet the following requirements prior to enrollment in certificate courses:

1. Possess a baccalaureate degree in a health-related field from an accredited institution.
2. Demonstrate satisfactory academic competency by attaining an overall GPA of at least 3.0 in previous college-level course work.
3. Meet with the MHS Program Director to discuss the admission process, the applicant’s career interests, and reasons for seeking admission to the certificate program.
4. Submit three letters of reference, in which the applicant’s academic potential is evaluated, to the Director, Master of Health Science Program, Boise State University, 1910 University Drive, Boise, ID 83725-1800. (For applicants whose academic record predates the application by five years or more, supervisors may submit letters of recommendation.)
5. Submit letter of interest and resume to MHS Program Director.
6. Complete a proctored writing examination (contact MHS Program Director to arrange for such an examination to be completed).
7. Provide evidence to the MHS Program Director or individual course instructors that course prerequisites are met.

Applicants who do not meet all of the above requirements MAY be allowed to enroll in the certificate program with provisional graduate status. However, these students must satisfy all of the conditions of their provisional status before they will be recommended for regular graduate status.

Certificate Requirement

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DISPUT 501 Human Factors in Conflict Management</td>
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<tr>
<td>DISPUT 502 Negotiation Theory and Practice</td>
<td>1</td>
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<tr>
<td>DISPUT 505 Culture and Conflict</td>
<td>1</td>
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<tr>
<td>MHLTHSCI 522 Management for Health Professionals</td>
<td>3</td>
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<tr>
<td>MHLTHSCI 525 Leadership for Health Professionals</td>
<td>3</td>
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<tr>
<td>MHLTHSCI 529 Marketing for Health Professionals</td>
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<tr>
<td>A minimum of three credits from one of the following:</td>
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<tr>
<td>ECON 440G Health Economics</td>
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<tr>
<td>OPWL 536 Foundations of Organizational Performance and</td>
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<tr>
<td>Workplace Learning</td>
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<tr>
<td>MHLTHSCI 550 Current Issues in Health Policy</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>15-16</td>
</tr>
</tbody>
</table>

Disclosure

The Graduate Certificate in Health Services Leadership 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: http://graduatecollege.boisestate.edu/programs/health-sciences-health-services-leadership/

Course Offerings

See Course Numbering and Terminology for definitions.

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

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 HLTHST 380 or HLTHINFO 205 or KINES 301 or MATH 254 or PSYC 295 or SOC 310.

MHLTHSCI — Master of Health Science


MHLTHSCI 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 MHLTHSCI or NURS credit, but not both. PREREQ: Admission to Graduate Program in Master of Health Science or Nursing.

MHLTHSCI 505 HEALTH SCIENCE RESEARCH METHODS (3-0-3)(F/S). Inquiry 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.

MHLTHSCI 510 ADVANCED ENVIRONMENTAL HEALTH (3-0-3)(F/S). A review for the practicing professional and foundation for the recent graduate, discussion will focus on current issues in environmental health management. The course will provide an overview of basic concepts of water quality management, food protection, solid and hazardous waste management, vector and occupational hazard control and others, and will emphasize effective management and decision-making models. PREREQ: Admission to MHS program or PERM/INST.

MHLTHSCI 515 OCCUPATIONAL SAFETY AND HEALTH (2-3-3)(F/S). Recognition, evaluation, and control of environmental health hazards or stresses (chemical, physical, biological) that may cause sickness, impair health, or cause significant discomfort to employees or residents of the community. The course is taught concurrently with an undergraduate section, with additional course work and/or projects required of graduate students. PREREQ: Admission to MHS program and one year each undergraduate chemistry and organic chemistry, or PERM/INST.

MHLTHSCI 517 PRINCIPLES OF TOXICOLOGY (2-0-2)(F/S). An examination of the absorption, distribution, and excretion of toxicants in humans and health effects on target organs. Toxicologic evaluation, risk assessment, fate of hazardous substances in the environment and policies for the control of such substances will also be discussed. The course is taught concurrently with an undergraduate section, with additional course work and/or projects required of graduate students. PREREQ: Admission to MHS program and one year each undergraduate chemistry and biology for science majors, or PERM/INST.

MHLTHSCI 518 ENVIRONMENTAL HEALTH LAW (2-0-2)(S)(Even years). Various aspects of environmental and health protection law are discussed, including sources of regulatory authority, legal procedures, agency roles, and specific statutes.

MHLTHSCI 520 HEALTH CARE SYSTEMS ORGANIZATION AND ADMINISTRATION (2-0-2)(F). Examines the history, organization, and effectiveness of United States health care and public health systems. Topics will include the underlying constructs of health, the structure of the industry, funding for health care, and the role of managers and personnel in the system. PREREQ: Admission to MHS program or PERM/PROG DIR.

MHLTHSCI 522 MANAGEMENT FOR HEALTH PROFESSIONALS (3-0-3)(F/SU). 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.

MHLTHSCI 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.

MHLTHSCI 529 MARKETING FOR HEALTH PROFESSIONALS (3-0-3)(F/S). Examination of marketing models used in health and health care including identification of consumer needs, market segmentation, and designing a balanced marketing program. PREREQ: Admission to MHS program or HSL Graduate Certificate program or PERM/INST.

MHLTHSCI 533 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.

MHLTHSCI 540 HEALTH INFORMATION MANAGEMENT (3-0-3)(S). The use of health information systems as a management tool in health policy and the impact of computer information systems on the structure and function of health care organizations, including administrative research to support decision making and problem solving using local and national computer data networks. PREREQ: Statistics and PERM/INST.


MHLTHSCI 543 (COUN 543) ASSESSING AND MANAGING ADOLESCENT SUBSTANCE ABUSE AND MENTAL HEALTH RISKS (2-0-2)(S)(Odd years). Introduction to comprehensive adolescent risk assessment and treatment planning. Examination of current and available comprehensive
adolescent assessments, current and available specialized assessments, report writing approaches and effective treatment processes. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: Graduate standing.

MHLTHSCI 544 (COUN 541) ADDICTION AND THE FAMILY SYSTEM (3-0-3)(F,S). Examination of multigenerational impact of addiction (drugs, alcohol, work, religion, internet, gambling etc.) on the family system. In addition to dysfunctional roles developed to cope with addiction, class also compares and contrasts communication strategies and parenting styles of unhealthy and healthy family systems. Risk and protective factors, stages of change, and continua of care from prevention, intervention, treatment and aftercare are addressed. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: HLTHST 109 or COUN/MHLTHSCI 545 or PERM/INST.

MHLTHSCI 545 (COUN 545) FOUNDATIONS OF CHEMICAL DEPENDENCY (3-0-3)(F,S). An overview of the pharmacological and physiological effects of chemical dependency. Special attention is given to how substance abuse impacts brain chemistry, and how brain chemistry impacts substance abuse. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: PERM/INST.

MHLTHSCI 547 (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. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: Graduate standing.

MHLTHSCI 548 COUNSELING SKILLS FOR ADDICTION PROFESSIONALS (3-0-3)(F,S). Introduction to evidence-based counseling techniques and interventions used with clients dealing with substance abuse and addiction issues. Presents an overview of common theories/approaches used in chemical dependency counseling along with the techniques and interventions that accompany each. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: Graduate standing.

MHLTHSCI 550 CURRENT ISSUES IN HEALTH POLICY (3-0-3)(F,S). Examines current issues in health care policy in the United States health care system. The structure, administration and financing of the health care system are reviewed and recent changes and their effects on cost, quality, and access to health care are discussed. Some attention is given to health policy issues in other countries as they influence and impact policy in the United States. PREREQ: Admission to MHS program or PERM/INST.

MHLTHSCI 552 (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 MHLTHSCI credit, but not both. PREREQ: Completion of an undergraduate statistics course and graduate standing in MHS or Kinesiology, or PERM/INST.

MHLTHSCI 553 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 of public health disasters will be studied. PREREQ: Graduate standing or PERM/INST.

MHLTHSCI 564 (COUN 544) SCREENING AND ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS (3-0-3)(F). Emphasis on screening and assessment tool-procedures for substance abuse. Application of current interventions and screening processes. Legal, social, ethical, and health implications will be investigated. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: HLTHST 109 or COUN/MHLTHSCI 545 or PERM/INST.

MHLTHSCI 565 (COUN 546) ASSESSMENT AND CASE MANAGEMENT OF ALCOHOL AND DRUG PROBLEMS (3-0-3)(S). Emphasis on case management techniques including legal, social, ethical, and health implications. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: MHLTHSCI 564 or COUN 544 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 567 (COUN 567) CLINICAL SUPERVISION PRINCIPLES AND PRACTICE (1-0-1)(S/SU)(Odd years). Theory and skill development for practitioners who are or will be supervising interns and/or professionals in school, agency, and other settings. Topics include ethical issues in clinical supervision, models and best practices, documentation, and troubleshooting problematic dynamics. May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: PERM/INST.

MHLTHSCI 568 (COUN 550) DIAGNOSES, ASSESSMENT AND TREATMENT PLANNING (2-0-2)(F). Examination of concepts of “mental disorders,” DSM classification systems, and the diagnostic benefits and diagnostic problems inherent in such systems. An introduction and overview of the major psychopathological syndromes of adolescents and adults (especially in the area of Co-morbidity of Substance Abuse/Dependence and other DSM IV diagnoses) to facilitate appropriate use of assessment—diagnosis—treatment links (including treatment planning). May be taken for COUN or MHLTHSCI credit, but not both. PREREQ: PERM/INST.

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). 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 573 (KINES 573) PHYSICAL ACTIVITY INTERVENTIONS (3-0-3)(F,S). Coverage of the use of individual, interpersonal, and group/community theories and models to design, implement, and evaluate interventions that facilitate increases in physical activity in various populations. Other topics include the influence of setting, activity recommendations, and media on program effectiveness. 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 576 HEALTH POLICY MAKING AND ISSUES IN AGING (3-0-3)(S)(Alternate years). Examination of the policy making process in relationship to health policies and services for the elderly at the national, state, and local levels. State and local policies and services will be studied to determine quality and effectiveness, identify gaps, and develop strategies to meet the increasing demands of a rapidly aging population.

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 or MHLTHSCI 501 and MHLTHSCI 552, or PERM/INST.

MHLTHSCI 580 SELECTED TOPICS IN RESEARCH (3-0-3)(F,S). Exploration of research in topical areas of the health sciences and related disciplines. Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Department of Kinesiology

Chair: John McChesney
Bronco Gymnasium, Room 209, Mail Stop 1710
Phone: (208) 426-4270
Fax: (208) 426-1894
E-mail: johnmcchesney@boisestate.edu

Graduate Degrees Offered
- Master of Athletic Leadership
- Master of Kinesiology, Behavioral Studies
- Master of Kinesiology, Biophysical Studies
- Master of Kinesiology, Socio-historical Studies
- Master of Kinesiology in Physical Education Pedagogy
- Master of Science in Kinesiology, Behavioral Studies
- Master of Science in Kinesiology, Biophysical Studies
- Master of Science in Kinesiology, Socio-historical Studies
- Master of Science in Physical Education Pedagogy

Master of Athletic Leadership
Graduate Program Coordinator: Tyler Johnson
Bronco Gymnasium, Room 208, Mail Stop 1710
Phone: (208) 426-5870
E-mail: MALprogram@boisestate.edu

General Information
The Master of Athletic Leadership 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 Requirements
An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations).

Admission Requirements
The student must apply for admission to and be recommended for admission by the Athletic Leadership Admissions Committee. Enrollment is competitive with a new cohort beginning the program each summer. The following admission materials must be submitted to the program director by February 1.

1. Letter of application describing the applicant's background and professional goals and aspirations.
2. A current resume.
3. Official scores from the verbal, quantitative, and analytical reports of the Graduate Record Examination (GRE) The GRE must have been taken within five years of application. Applicants posting verbal and analytical writing scores of 33% and above will receive favorable attention.
4. Three letters of recommendation addressing your professional competencies, potential for leadership, personal and professional integrity, and any other information that will help the selection committee make an informed decision.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Requirements</td>
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</tr>
<tr>
<td>KIN-AL 501 Foundations of Athletic Leadership</td>
<td>3</td>
</tr>
<tr>
<td>KIN-AL 502 Athletic Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>KIN-AL 503 Athletic Program Management</td>
<td>3</td>
</tr>
<tr>
<td>KIN-AL 504 Philosophy of Sport and Athletic Leadership</td>
<td>3</td>
</tr>
<tr>
<td>KIN-AL 505 Sociology of Sport and Athletic Leadership</td>
<td>3</td>
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<tr>
<td>KIN-AL 507 Psychological Aspects of Athletic Leadership</td>
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<tr>
<td>KIN-AL 508 Athletic Leadership Practicum I</td>
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<td>KIN-AL 509 Athletic Leadership Practicum II</td>
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<td>Culminating Activity</td>
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<td>KIN-AL 592 Portfolio</td>
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<td>Total</td>
<td>32</td>
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</tbody>
</table>
Master of Kinesiology

Household in Kinesiology

Graduate Program Coordinator: Shelley Lucas
Bronco Gymnasium, Room 101, Mail Stop 1710
Phone: (208) 426-2446
E-mail: smlucas@boisestate.edu

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 and Admission Requirements

An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations). Application materials must be received by May 1. (Students are admitted in fall semester only.) Students will be admitted when the following criteria are met; however, meeting these minimum requirements does not guarantee admission to a program:

1. An appropriate pattern of classes providing a foundation for the graduate area of study as determined by Kinesiology Department Graduate Faculty has been completed, including applied anatomy and exercise physiology.
2. Official scores from the verbal, quantitative, and analytical reports of the Graduate Record Examination have been received. The GRE must have been taken within five years of application. Applicants posting verbal and quantitative scores of 33% and above will receive favorable attention.
3. Letter of application describing the applicant’s background, academic interests, career goals and potential faculty mentor. An appropriate pattern of classes providing a foundation for the graduate area of study as determined by Kinesiology Department Graduate Faculty has been completed, including applied anatomy and exercise physiology.
4. A current resume.
5. Three letters of reference.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Core Requirements</strong></td>
<td>10-13</td>
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<tr>
<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 (3 cr)</td>
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<tr>
<td>KINES 560 Motor Learning (3 cr)</td>
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</tr>
<tr>
<td>Biophysical Studies</td>
<td></td>
</tr>
<tr>
<td>KINES 505 Applied Sport Physiology, Conditioning, and Sports Medicine (5 cr)*</td>
<td></td>
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<tr>
<td>KINES 510 Physiology of Activity (3 cr)</td>
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<tr>
<td>KINES 520/ME 520 Advanced Biomechanics (3 cr)</td>
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<tr>
<td>Socio-historical Studies</td>
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<tr>
<td>KINES 535 Sociology of Exercise and Sport (3 cr)</td>
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<tr>
<td>KINES 550 Philosophy of Exercise and Sport (3 cr)</td>
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</tr>
<tr>
<td>KINES 582 Selected Topics in Sport History (3 cr)</td>
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</table>

*Available to satisfy the Biophysical Studies core requirement for students in Behavioral Studies or in Socio-historical Studies, but not for students in Biophysical Studies.

KINES 598 Graduate Seminar (1-2 cr)
(Enrollment is required each Fall semester of all graduate students in residence; two credits may be applied toward graduation.)

**Methods of Inquiry**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>KINES 551 Research Design in Exercise and Sport (3 cr)</td>
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<tr>
<td>Select one of the following courses:</td>
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<tr>
<td>ED-BLESL 503 Applied Theoretical Foundations of Bilingual Education/ESL and Multiculturalism (3 cr)</td>
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<tr>
<td>ED-SPED 552 Instructional Strategies for Special Educators (3 cr)</td>
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<tr>
<td>HIST 500 The Nature of History (3 cr)</td>
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<tr>
<td>KINES 552 Applied Statistical Methods (3 cr)</td>
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<tr>
<td>KINES 572 Grant Writing (3 cr)</td>
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<tr>
<td>SOC 500 Advanced Social Statistics (3 cr)</td>
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</tr>
<tr>
<td>SOC 502 Qualitative Social Research Methods (3 cr)</td>
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</tr>
<tr>
<td>SOC 571 Feminist Sociological Theory (3 cr)</td>
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</table>

**Approved Electives**

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 http://kinesiology.boisestate.edu.

KINES 692 Capstone Course

<table>
<thead>
<tr>
<th>Total</th>
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Health Sciences

College of Health Sciences
Department of Kinesiology

Degree Requirement

<table>
<thead>
<tr>
<th>Master of Science in Kinesiology</th>
<th>Credits</th>
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<tr>
<td><strong>Course Number and Title</strong></td>
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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 (3 cr)</td>
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<tr>
<td>KINES 560 Motor Learning (3 cr)</td>
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<tr>
<td>Biophysical Studies</td>
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<tr>
<td>KINES 505 Applied Sport Physiology, Conditioning, and Sports Medicine (5 cr)*</td>
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<tr>
<td>KINES 510 Physiology of Activity (3 cr)</td>
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<td>KINES 520/ME 520 Advanced Biomechanics (3 cr)</td>
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<tr>
<td>Socio-historical Studies</td>
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<tr>
<td>KINES 555 Sociology of Exercise and Sport (3 cr)</td>
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<tr>
<td>KINES 550 Philosophy of Exercise and Sport (3 cr)</td>
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<tr>
<td>KINES 582 Selected Topics in Sport History (3 cr)</td>
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<tr>
<td>*Available to satisfy the Biophysical Studies core requirement for students in Behavioral Studies or in Socio-historical Studies, but not for students in Biophysical Studies.</td>
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<tr>
<td>KINES 598 Graduate Seminar (1-2 cr)</td>
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<tr>
<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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<tr>
<td>KINES 551 Research Design in Exercise and Sport (3 cr)</td>
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<tr>
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<tr>
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<td>HIST 500 The Nature of History (3 cr)</td>
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<td><strong>Approved Electives</strong></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="http://kinesiology.boisestate.edu">http://kinesiology.boisestate.edu</a>.</td>
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<tr>
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Master of Kinesiology in Physical Education Pedagogy

Master of Science in Physical Education Pedagogy

Graduate Program Coordinator: Shelley Lucas
Bronco Gymnasium, Room 101, Mail Stop 1710
Phone: (208) 426-2446
E-mail: smlucas@boisestate.edu

General Information

The Master of Kinesiology (MK) and Master of Science (MS) in Physical Education Pedagogy are designed to provide a graduate level experience for students seeking to improve their ability to teach movement skills in a physical education or athletics setting. These two options provide content and experiences for practitioners who are teaching in the elementary and secondary schools, or are planning careers at the collegiate level. The MS degree is research-oriented and suited for those students particularly interested in pursuing a doctoral degree. This degree requires the completion of a thesis as the culminating activity. The MK degree is practitioner-oriented and is designed to improve instructional skills and reflection in practicing educators, and offers students an option for their culminating activity: a capstone course or a project. Graduates of the program will be able to adapt research-based techniques to meet the requirements of their instructional situations and be able to assess and reflect on the efficacy of their efforts. The MK and the MS degrees do not lead to initial teacher certification nor do they require teacher certification for admission.

It is assumed students are seeking a program which fosters critical thought. Therefore, those graduating must be able to apply the scientific method or problem solving to issues and questions related to one or more of the many dimensions of exercise, sport, and physical activity. Important outcomes for learners include:

1. Acquiring a sound conceptual basis from which leadership can be exercised in the profession.
2. Demonstrating the expertise to interpret, communicate and effectively promote healthy lifestyles in occupational settings.
3. Become intelligent consumers of research with competence to apply findings to the design, administration, evaluation and improvement of sport science-related programs.
4. Possessing the skills needed to develop and conduct research which contributes to the growth of knowledge in the field.

Fundamental to the Graduate Program are faculty who provide a supporting environment and are active in teaching, scholarship, research and professional development.

Application and Admission Requirements

Students will be admitted when the following criteria are met; however, meeting these minimum requirements does not guarantee admission to the program. The application deadline for fall semester is May 1. (Students are admitted in fall semester only.) Application materials may be submitted at any time; review of those files begins February 1st.

1. The Graduate College has received an application for admission, a one-time matriculation fee, and official transcripts of all undergraduate and graduate work.
College of Health Sciences
Department of Kinesiology

Degree Requirements

Master of Science in Physical Education Pedagogy

<table>
<thead>
<tr>
<th>Course Number and Title</th>
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<td>Select one course from two of the following areas:</td>
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<td>KINES 560 Motor Learning (3 cr)</td>
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<td>Biophysical Studies</td>
<td>3</td>
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<td>KINES 500 Functional Anatomy (3 cr)</td>
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<td>KINES 520/ME 520 Advanced Biomechanics (3 cr)</td>
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<td>Socio-historical Studies</td>
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<td>KINES 535 Sociology of Exercise and Sport (3 cr)</td>
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<tr>
<td>KINES 550 Philosophy of Exercise and Sport (3 cr)</td>
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<td>Methods of Inquiry</td>
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<td>ED-CIFS 503 Fundamentals of Educational Research or</td>
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<tr>
<td>KINES 551 Research Design in Exercise and Sport</td>
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<td>ED-CIFS 537 Instructional Theory</td>
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<td>ED-CIFS 506 Issues in Education</td>
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<td>Approved Electives</td>
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<td>To be determined in consultation with advisor.</td>
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<tr>
<td>KINES 593 Research and Thesis</td>
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<tr>
<td>Total</td>
<td>37</td>
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</tbody>
</table>

Course Offerings

See Course Numbering and Terminology for definitions.

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 leaders 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 500 FUNCTIONAL ANATOMY (3-0-3). A study of gross human anatomy from the descriptive approach with emphasis on the skeletal, muscular, nervous and circulatory systems. Includes cadaver dissection. In addition, in-depth study of joint structure and function, gross-motor movement, and skill will be included. Video analysis will be utilized.

KINES 503 (ZOOL 503) HEAD AND NECK ANATOMY (2-2-3)(F,S). Use of human cadavers to study dissections 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 505 APPLIED SPORT PHYSIOLOGY, CONDITIONING, AND SPORTS MEDICINE (5-0-5)(F/S). Application of the science behind improving athletic performance and preventing injury. Provides a basic background in exercise physiology, biomechanics, strength and conditioning, and basic injury prevention for coaches, with focus on the fundamental functional properties associated with human movement, the basic principles and techniques used in strength and conditioning.

KINES 510 PHYSIOLOGY OF ACTIVITY (3-0-3). A study of the various factors affecting human performance and subsequent adaptations of the body to single and repeated bouts of exercise.

KINES 515 EXERCISE PHYSIOLOGY LAB (2-2-3). Practical application of the principles that govern response and adaptation of the human body to exercise, utilizing laboratory equipment to collect data and analyze results. PREREQ: KINES 510 or PERM/INST.

KINES 520 (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 533 PSYCHO-SOCIAL ASPECTS OF YOUTH SPORT COACHING (3-0-3)(F/S/SU). Provides an overview of positive youth development through sport literature: (a) activities and actions that foster positive youth development; (b) skills to become self-regulated learners; and (c) motivational climates that promote mastery. Takes an integrative approach to the science and practice of organized sports (school and nonschool) and psychosocial development of children and youth.

KINES 535 SOCIOLOGY OF EXERCISE AND SPORT (3-0-3). A study of the relationships among sport and other facets of society, including social organization, group behavior and social interaction patterns.

KINES 536 SOCIOLOGICAL AND PHILOSOPHICAL ASPECTS OF YOUTH SPORT COACHING (3-0-3)(F/S/SU). Examination of issues and controversies in youth sport from sociological and philosophical perspectives with particular attention to the role of coaches.

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;
**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 group philosophy and goal structuring.

**KINES 551 RESEARCH DESIGN IN EXERCISE AND SPORT (3-0-3)(S).** Includes critical analysis of published research in terms of research design, statistical procedures, concepts of validity, experimentation and control; classification of various research methods; various types of research problems; and the relevant attributes of experimental designs. A research proposal is a requirement of the course.

**KINES 552 (MHLTHSCI 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 MHLTHSCI credit, but not both. PREREQ: Completion of an undergraduate statistics course and graduate standing in MHS or Kinesiology, or PERM/INST.

**KINES 555 PHYSICAL EDUCATION PEDAGOGY (3-0-3)(F/S/SU).** Advanced pedagogical theory and practice in physical education. In-depth study of the teaching and learning process through application of advanced teaching methods and student assessment.

**KINES 560 MOTOR LEARNING (3-0-3).** A study of the relevant empirical evidence and research in the field of motor learning and performance, including the learning process, feedback, timing, information processing, transfer, perception, motivation and practice conditions.

**KINES 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.

**KINES 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.

**KINES 572 (MHLTHSCI 572) GRANT WRITING (3-0-3)(SU).** Examination of the processes 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.

**KINES 573 (MHLTHSCI 573) PHYSICAL ACTIVITY INTERVENTIONS (3-0-3)(F/S).** Coverage of the use of individual, interpersonal, and group/community theories and models to design, implement, and evaluate interventions that facilitate increases in physical activity in various populations. Other topics include the influence of setting, activity recommendations, and media on program effectiveness. May be taken for KINES or MHLTHSCI credit, but not both.

**KINES 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.

**KINES 575 COMPUTERS IN EXERCISE AND SPORT (3-0-3).** An introduction to computer applications in the exercise and sport sciences, including methods for collecting data. Processing of data will include both microcomputer software and the Statistical Analysis System (SAS) package.

**SELECTED TOPICS:**
- KINES 581 SELECTED TOPICS IN YOUTH SPORT.
- KINES 582 SELECTED TOPICS IN SPORT HISTORY.
- KINES 583 SELECTED TOPICS IN SPORTS NUTRITION.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
1. Possess a valid, unencumbered RN license or advanced nursing practice license from within the United States
2. Possess a Master’s Degree in Nursing from the Accrediting Commission to the Accreditation Commission for Education in Nursing (ACEN) or Commission on Collegiate Nursing Education (CCNE) accredited Nursing program or a Bachelor’s Degree in Nursing from the Accrediting Commission to the Accreditation Commission for Education in Nursing (ACEN) or Commission on Collegiate Nursing Education (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 graduate courses.
3. Applicants are not required to be certified in a clinical specialty.
4. Have a cumulative GPA of 3.0 (on a 4.0 scale) for the undergraduate nursing coursework and a cumulative GPA of 3.0 in Master’s program.
5. Three professional references to the School of Nursing DNP Program. References must be from faculty members, professional colleagues, or work supervisors who can evaluate your potential for success in a doctoral program. The standardized letters of reference must be downloaded from School of Nursing DNP website and completed/mailed by those professionals recommending the candidate.
6. Submit 500 word comprehensive statement that includes:
   a. Describe your vision of nursing, your professional goals, and how a Doctor of Nursing Practice degree will help you achieve these goals.
   b. Identify a problem that requires a relevant change in health care or educational systems and /or policies that could serve as a basis of your DNP scholarly project.
   OR
   Discuss a relevant issue related to your population of interest that could serve as a basis of your DNP scholarly project.
   Comprehensive statement may not exceed 500 words. If the comprehensive statement exceeds 500 words, the application will not be considered.
   a. A separate signature page form (not included in your 500 word statement) is required attesting that you are the person who wrote this comprehensive statement.
7. An interview with select graduate faculty is required as part of the admission process. Applicants will be contacted by the School of Nursing to schedule the interview.

Applicants should obtain current admission requirements from the School of Nursing or through the nursing website at http://hs.boisestate.edu/nursing

Foreign 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 contact the Idaho State Board of Nursing for more information.

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

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<th>Doctor of Nursing Practice</th>
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<tr>
<td>NURS 602 Advanced Principles of Population Health Nursing</td>
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<td>NURS 603 Scholarly Project II</td>
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<tr>
<td>NURS 604 Designing Models of Health Care Delivery</td>
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<td>NURS 605 Scholarly Project III</td>
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<td>NURS 606 Constructing Leadership for the DNP</td>
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<tr>
<td>NURS 608 Health Care Policy and Advocacy</td>
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<td>NURS 609 Health Care Policy and Advocacy Practicum</td>
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<td>NURS 610 Leadership for Organizations, Systems, and Populations</td>
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<td>NURS 612 Translation, Integration, and Dissemination of Evidence</td>
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<td>NURS 614 Outcomes Management Analysis</td>
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<td>NURS 616 Health Care Technology, Information Systems, and Quality</td>
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<td>NURS 618 Quality Improvement and Evaluation Methodology</td>
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<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 623 Scholarly Clinical Experience (1-3 credits)</td>
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Master’s Degree Programs in Nursing

General Information
The School offers two masters degrees; a Master of Science in Nursing (MSN) with a culminating thesis that is foundational for research at the doctoral level of study and a Master of Nursing (MN) program with a culminating project for professional development.

The Master’s programs prepare students in two areas;
1. Nursing of populations (MSN or MN) or
2. Adult -Gerontology Nurse Practitioner (MN) - Acute or Primary care.

Nursing of Populations
This program prepares nurses with a baccalaureate degree to gain expertise in nursing of populations. The program focuses on population assessment, implementation of interventions, and evaluation of outcomes with populations such as adults with diabetes, children with nutritional needs, or public health nursing. This program is offered entirely via distance education.

Application and Admission Requirements
Students interested in the nursing of populations program must first submit a graduate application to the Graduate College Admission and Degree Services by March 31. If approved, the applicant receives a certificate of admission to enroll in graduate courses. Acceptance into the Graduate College at Boise State University is a
prerequisite to admission into the nursing program but does not by itself guarantee admission into the nursing program. (The student is advised to consult the General Admission Policies section of the Graduate College catalog for additional details on admission).

Applications are accepted on a rolling basis throughout the year. Available spaces are first filled from the qualified applicant pool who meets the published deadline. After the spaces are filled, any remaining qualified applicants will be placed on an alternate list. If all spaces are not filled from the pool who met the deadline, then qualified candidates will be accepted in the order of their application.

Applicants admitted to the Graduate College are eligible to apply to the nursing of populations’ masters program in the School of Nursing. The following must be met:

1. Possess a baccalaureate degree in nursing from a nationally accredited nursing program;
2. Possess a valid, unencumbered RN license from within the United States;
3. GPA of 3.0 (on a 4.0 scale) computed for the last half of the undergraduate credits;
4. Completed, or planned for completion prior to beginning of fall semester an undergraduate nursing research course and undergraduate statistics course with a grade of C or higher;
5. Submission of a School of Nursing Graduate Program application with a non-refundable application fee to the School of Nursing;
6. Submission of 2 reference forms from a current employer or prior nursing faculty;
7. Submission of a written statement following current guidelines. (Guidelines can be found on the Nursing Website http://hs.boisestate.edu/nursing/masters)

Applicants should obtain current admission requirements from the School of Nursing or through the nursing website at http://hs.boisestate.edu/nursing/masters.

Foreign 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 contact the Idaho State Board of Nursing.

### Master of Nursing

Graduate Program Coordinator: Ann Hubbert
Program Information: Marian Graham
Norco Building, Room 433B, Mail Stop 1840
Phone: (208) 426-3789
Fax: (208) 426-1370
E-mail: nursing@boisestate.edu
http://hs.boisestate.edu/nursing/populations/

### Degree Requirements

A minimum of 40-41 credits are required for graduation. The part-time program is designed to be completed in a minimum of three years to a maximum of seven years. The curriculum (40-41 credits) is comprised of 32 core credits and 8-9 credits of support courses.

#### Master of Nursing, Graduate Core

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation Requirements: 43 credits minimum are required for graduation from the Master of Science in Nursing. The actual number of credits may vary depending on the needs of the individual student.</td>
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<tr>
<td>MHLTHSCI 535 Ethics and Health Policy</td>
<td>2</td>
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<tr>
<td>MHLTHSCI 552 (KINES 552) Applied Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>MHLTHSCI 579 Managerial Epidemiology</td>
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**Graduate Nursing Courses**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NURS 502 Foundation of Knowledge and Theory for Advanced Nursing</td>
<td>3</td>
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<tr>
<td>NURS 508 Advanced Research and Scholarly Inquiry for Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 512 Advanced Nursing Leadership in Health Care</td>
<td>3</td>
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<tr>
<td>NURS 522 Concepts of Population Nursing in Health Systems</td>
<td>3</td>
</tr>
<tr>
<td>NURS 524 Theory-Guided Assessment and Planning</td>
<td>2</td>
</tr>
<tr>
<td>NURS 525 Theory-Guided Assessment and Planning Practicum</td>
<td>2</td>
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<tr>
<td>NURS 526 Theory-Guided Implementation and Evaluation</td>
<td>2</td>
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<tr>
<td>NURS 527 Theory-Guided Implementation and Evaluation Practicum</td>
<td>2</td>
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<tr>
<td>NURS 528 Professional Roles for Advanced Nursing Practice</td>
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<tr>
<td>NURS 591 Project</td>
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**Master of Nursing, Graduate Concentrations**

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<tr>
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</table>

#### Organizational Leader Concentration

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NURS 504 (MHLTHSCI 504) Health Care Economics, Financing and Delivery</td>
<td>3</td>
</tr>
<tr>
<td>NURS 514 Organizational Leadership for Advanced Nursing Practice</td>
<td>3</td>
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<tr>
<td>Elective Course</td>
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</table>

#### Nursing of Populations Concentration (no required courses)

Students will be expected to take at least 8 credits from the Organizational Leader Concentration or other electives in order to meet minimum graduation requirements in consultation with their advisor.

| **Total** | **40-41** |
Master of Science in Nursing

Graduate Program Coordinator: Ann Hubbert
Program Information: Marian Graham
Norco Building, Room 433B, Mail Stop 1840
Phone: (208) 426-3789
Fax: (208) 426-1370
E-mail: nursing@boisestate.edu
http://hs.boisestate.edu/nursing/populations/

Degree Requirements

A minimum of 43-44 credits is required for graduation. The part-time program is designed to be completed in a minimum of three years to a maximum of seven years. The curriculum (43-44 credits) is comprised of 35 core credits and 8-9 credits of support courses.

Master of Science in Nursing, Graduate Core

<table>
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<tr>
<th>Course Number and Title</th>
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<tr>
<td>Graduation Requirements: 43 credits minimum are required for graduation from the Master of Science in Nursing. The actual number of credits may vary depending on the needs of the individual student.</td>
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<tr>
<td>MHLLTHSCI 535 Ethics and Health Policy</td>
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<tr>
<td>MHLLTHSCI 552 (KINES 552) Applied Statistical Methods</td>
<td>3</td>
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<tr>
<td>MHLLTHSCI 579 Managerial Epidemiology</td>
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<tr>
<td>Graduate Nursing Courses</td>
<td></td>
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<tr>
<td>NURS 502 Foundation of Knowledge and Theory for Advanced Nursing</td>
<td>3</td>
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<tr>
<td>NURS 508 Advanced Research and Scholarly Inquiry for Nursing</td>
<td>3</td>
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<td>NURS 512 Advanced Nursing Leadership in Health Care</td>
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<td>NURS S22 Concepts of Population Nursing in Health Systems</td>
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<td>NURS S24 Theory-Guided Assessment and Planning</td>
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<td>NURS S25 Theory-Guided Assessment and Planning Practicum</td>
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<tr>
<td>NURS S26 Theory-Guided Implementation and Evaluation</td>
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<td>NURS S27 Theory-Guided Implementation and Evaluation Practicum</td>
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<tr>
<td>NURS S28 Professional Roles for Advanced Nursing Practice</td>
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<tr>
<td>NURS S93 Thesis</td>
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Master of Science in Nursing, Graduate Concentrations

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Graduate Nursing Core</td>
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<tr>
<td>Choose one of the following concentrations</td>
<td></td>
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<tr>
<td>Organizational Leader Concentration</td>
<td></td>
</tr>
<tr>
<td>NURS 504 (MHLLTHSCI 504) Health Care Economics, Financing and Delivery</td>
<td>3</td>
</tr>
<tr>
<td>NURS 514 Organizational Leadership for Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>Elective Course</td>
<td>3</td>
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<tr>
<td>Nursing of Populations Concentration (no required courses)</td>
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<tr>
<td>Students will be expected to take at least 8 credits from the Organizational Leader Concentration or other electives in order to meet minimum graduation requirements in consultation with their advisor.</td>
<td>8</td>
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Adult-Gerontology Nurse Practitioner—Acute Care or Primary Care

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 (www.nursecredentialing.org) or the Academy of Nurse Practitioners - ANPA (www.anpa.ca) 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 sit for the AGNP-acute care certification and the primary care track prepares graduates to sit for the AGNP-primary care certification.

Note: Certification is available for graduates with a Masters degree in nursing. For students wishing to obtain a DNP, students may transition from the AGNP directly into the DNP.

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 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 clinical experience occur in primary care settings. This program is offered primarily via distance education with 3 short on site experiences on the Boise State University campus. The remainder of clinical experiences will occur in the area where the student resides.

(Nota: This may not be available in all states.)

Application and Admission Requirements

Applicants admitted to the Graduate College are eligible to apply to the AGNP masters program in the School of Nursing. The following must be met:

1. Possess a baccalaureate degree in nursing from a nationally accredited nursing program;
2. Possess a valid, unencumbered RN license from within the United States;
3. GPA of 3.0 (on a 4.0 scale) computed for the last half of the undergraduate credits;
4. Submission of a School of Nursing Graduate Program application with a non-refundable application fee to the School of Nursing. Application instructions may be found on the AGNP website http://hs.boisestate.edu/nursing/agnp;
5. Submission of 3 reference forms from a current employer or prior nursing faculty;
6. Submission of written statement following current guidelines. (Guidelines can be found on the Nursing Website http://hs.boisestate.edu/nursing/agnp)

Applicants should obtain current admission requirements from the School of Nursing or through the nursing website at http://hs.boisestate.edu/nursing/agnp/

Foreign 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 contact the Idaho State Board of Nursing
Health Sciences

College of Health Sciences
School of Nursing

Master of Nursing, Adult–Gerontology Nurse Practitioner

Graduate Program Coordinator: Dawn Weiler
Program Information: Kaylin Triesch
Norco Building, Room 414A, Mail Stop 1840
Phone: (208) 426-3828
Fax: (208) 426-2344
E-mail: KaylinTriesch@boisestate.edu
http://hs.boisestate.edu/nursing/agnp/

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>
<td>3</td>
</tr>
<tr>
<td>NURS 508 Advanced Research and Scholarly Inquiry for Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 522 Concepts of Population Nursing in Health Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Nurse Practitioner Core</strong></td>
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<tr>
<td>NURS 510 Advanced Physiology and Pathophysiology</td>
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<td>NURS 516 Advanced Pharmacotherapeutics</td>
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<tr>
<td>NURS 518 Health Assessment for the Advanced Practice Nurse</td>
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<tr>
<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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<tr>
<th>Course Number and Title</th>
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<tr>
<td>NURS 542 Primary Care Management of Adult/Geriatric Health I</td>
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<td>NURS 543 Primary Care Management of Adult/Geriatric Health I Clinical</td>
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<tr>
<td>NURS 544 Primary Care Management of Adult/Geriatric Health II</td>
<td>4</td>
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<tr>
<td>NURS 545 Primary Care Management of Adult/Geriatric Health II Clinical</td>
<td>2</td>
</tr>
<tr>
<td>NURS 547 Primary Care Clinical Residency</td>
<td>3</td>
</tr>
<tr>
<td>NURS 551 Primary Care Procedures and Diagnostics for the Advanced Practice Nurse</td>
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<td><strong>Total</strong></td>
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**Primary Care Option**

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<thead>
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<th>Course Number and Title</th>
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<tbody>
<tr>
<td>NURS 542 Primary Care Management of Adult/Geriatric Health I</td>
<td>4</td>
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<tr>
<td>NURS 543 Primary Care Management of Adult/Geriatric Health I Clinical</td>
<td>2</td>
</tr>
<tr>
<td>NURS 544 Primary Care Management of Adult/Geriatric Health II</td>
<td>4</td>
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<tr>
<td>NURS 545 Primary Care Management of Adult/Geriatric Health II Clinical</td>
<td>2</td>
</tr>
<tr>
<td>NURS 547 Primary Care Clinical Residency</td>
<td>3</td>
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<tr>
<td>NURS 551 Primary Care Procedures and Diagnostics for the Advanced Practice Nurse</td>
<td>2</td>
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<tr>
<td><strong>Total</strong></td>
<td>48</td>
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</tbody>
</table>

Graduate Certificate in Adult–Gerontology Nurse Practitioner — Acute Care or Primary Care

Graduate Program Coordinator: Dawn Weiler
Program Information: Kaylin Triesch
Norco Building, Room 414A, Mail Stop 1840
Phone: (208) 426-3828
Fax: (208) 426-2344
Email: KaylinTriesch@boisestate.edu
http://hs.boisestate.edu/nursingAGNP/

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 (www.nursecredentialing.org) or the Academy of Nurse Practitioners - ANPA (www.anpa.ca). The acute care graduate certificate program prepares graduates to sit for the AGNP-acute care certification and the primary care graduate certificate program prepares graduates to sit for the AGNP-primary care certification. Note: Certification is available for graduates with a Masters degree in nursing. For students wishing to obtain a DNP, students may transition from the AGNP directly into the DNP or students with a Masters Degree may go directly into the DNP. 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.
Certificate Requirements

Applicants admitted to the Graduate College are eligible to apply to the AGNP Graduate Certificate Program in the School of Nursing. The following must be met:

1. Possess a Masters or doctoral degree in nursing from a nationally accredited nursing program;
2. Possess a valid, unencumbered RN license and certification as a nurse practitioner from ANCC or ANPA.
3. GPA of 3.0 (on a 4.0 scale) computed for the last half of the undergraduate credits;
4. Submission of a School of Nursing Graduate Program application with a non-refundable application fee to the School of Nursing;
5. Submission of 2 reference forms from a current employer or prior nursing faculty;
6. Submission of a written statement following current guidelines. (Guidelines can be found on the Nursing Website http://hs.boisestate.edu/nursing/agnp/)

Applicants should obtain current admission requirements from the School of Nursing or through the nursing website at http://hs.boisestate.edu/nursing/agnp/

Foreign 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 contact the Idaho State Board of Nursing.

### Certificate Requirements

<table>
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<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NURS 542 Primary Care Management of Adult/Geriatric Health and Illness I</td>
<td>4</td>
</tr>
<tr>
<td>NURS 543 Primary Care Management of Adult/Geriatric Health and Illness I Clinical</td>
<td>2</td>
</tr>
<tr>
<td>NURS 544 Primary Care Management of Adult/Geriatric Health and Illness II</td>
<td>4</td>
</tr>
<tr>
<td>NURS 545 Primary Care Management of Adult/Geriatric Health and Illness II Clinical</td>
<td>2</td>
</tr>
<tr>
<td>NURS 547 Primary Care Clinical Residency</td>
<td>3</td>
</tr>
<tr>
<td>NURS 551 Primary Care Procedures and Diagnostics for the Advanced Practice Nurse</td>
<td>2</td>
</tr>
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### Course Offerings

See Course Numbering and Terminology for definitions.

**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 (MLTHSCI 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 MLTHSCI 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).** Examines quantitative and qualitative research methods applicable to evidence-based nursing practice. Develops skills of rigorous critique of the evidence to improve health outcomes for selected populations. 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: Admission to the Graduate Program in Nursing or PERM/INST.

**NURS 518 HEALTH ASSESSMENT FOR THE ADVANCED PRACTICE NURSE (2-0-2)(F/S/SU).** Holistic assessment of all human systems using advanced assessment techniques, concepts, and approaches. Advanced assessment skills
integrated with principles of differential diagnosis and clinical decision-making skill building. PREREQ: NURS 502 and NURS 510.


NURS 522 CONCEPTS OF POPULATION NURSING IN HEALTH SYSTEMS (3-0-3)(F/S/SU). Examines the philosophy and framework for health promotion and disease prevention with a specific population. PREREQ: NURS 502, NURS 522, COREQ: NURS 525 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 524 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 522 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). Utilizing the competencies of advanced nursing practice 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/S/SU). 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 I (3-0-3)(F/S/SU). 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/S/SU). 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 I (4-0-4)(F/S/SU). 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. PRE/COREQ: NURS 536.

NURS 538 ACUTE CARE MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS II (4-0-4)(F/S/SU). 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/S/SU). 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/S/SU). Advocates 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 CARE MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS I (4-0-4)(F/S/SU). 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 PERM/INST.

NURS 543 PRIMARY CARE MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS II CLINICAL (0-8-2)(F/S/SU). Synthesis of therapeutic 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 545 PRIMARY CARE MANAGEMENT OF ADULT/GERIATRIC HEALTH AND ILLNESS II CLINICAL (0-8-2)(F/S/SU). 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 547 PRIMARY CARE CLINICAL RESIDENCY (0-12-3)(F/S/SU). 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/S/SU). Development and application of advanced acute care procedure and diagnostic skills in clinical/laboratory settings. PREREQ: NURS 534 and NURS 535, or PERM/INST.

NURS 551 PRIMARY CARE PROCEDURES AND DIAGNOSTICS FOR THE ADVANCED PRACTICE NURSE (0-8-2)(F/S/SU). Development and application of advanced primary care procedure and diagnostic skills in clinical/laboratory settings. PREREQ: NURS 534 and NURS 535, or PERM/INST.


NURS 562 GRADUATE NURSING EDUCATION (2-0-2)(F/S/SU). Explores graduate nursing education options for MS, DNP, and Ph.D. 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 NP 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). Analyzes 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: NURS 620.

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 606 CONSTRUCTING LEADERSHIP FOR THE DNP (3-0-3)(F/S/SU). A comprehensive examination of leadership theories and styles, understanding of ethical, principled leadership skills, and an analysis and application of innovative leadership techniques and strategies. Uses reflection and leadership development strategies to actualize the DNP leadership role. PREREQ: NURS 620.

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, lead stakeholder teams, and engage in advocacy efforts for health care consumer populations, providers, systems of care, and other stakeholders in policy and public forums. PREREQ: NURS 606.

NURS 609 HEALTH CARE POLICY AND ADVOCACY PRACTICUM (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. PREREQ/COREQ: NURS 608.

NURS 610 LEADERSHIP FOR ORGANIZATIONS, SYSTEMS, AND POPULATIONS (2-0-2)(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 interprofessional health care delivery systems. Examines the impact of cultural, ethical, and economic factors on leading change in health care organizations. PREREQ: NURS 606.


NURS 614 OUTCOMES MANAGEMENT ANALYSIS (4-0-4)(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. Examines advanced application of economic theory, financial principles and financial modeling in the health care market. PREREQ: NURS 602; and graduate level statistics or equivalent; and managerial epidemiology or equivalent.

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: NURS 618.

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. PREREQ: NURS 605.

NURS 623 SCHOLARLY CLINICAL EXPERIENCE (1-3 Variable)(F/S/SU). Course with variable credits for those students who do not have 500 clinical hours prior to entrance in the DNP program. Clinical experiences in leadership developed with the student to ensure completion of 1000 hours of clinical upon completion of DNP program. PREREQ: Admission to DNP Program.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
School of Social Work

Director: Roy Rodenhiser
Education Building, Room 716, Mail Stop 1940
Phone: (208) 426-1568
Fax: (208) 426-4291
http://sspa.boisestate.edu/socialwork/

Graduate Degree Offered
- Master of Social Work — Two Year Program
- Master of Social Work — Advanced Standing
- Graduate Certificate in Refugee Services

Master of Social Work
Graduate Program Coordinator: Joelle Powers
Education Building, Room 716, Mail Stop 1940
Phone: (208) 426-3184
E-mail: joellepowers@boisestate.edu

General Information
The Master of Social Work (MSW) is a two-year full-time graduate program, 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.

Application and Admission Requirements
Applications for both programs (two year and advanced standing) are available online at http://sspa.boisestate.edu/socialwork/. Applications for both programs are processed and reviewed starting January 1 on a continuous basis until program enrollment limits are met. Closing date for admission into the two year program is August 1. Closing date for advanced standing is June 1. Enrollment in both programs is limited and the admission process is very competitive. Early application is strongly advised. When enrollment capacities are filled, a waiting list of qualified applicants is started. As seats become available, qualified applicants on the wait list are notified of program availability and offered admission into the program. Accepted applicants must reserve their seat in the class. Factors such as education (GPA and continuing education courses), social work experience (paid and/or voluntary), personal information, and diversity are considered in the admission decision. Criteria for admission into the MSW program:

Completion of the Boise State University Graduate Admission Application and The School of Social Work Application for admission as a graduate student.

1. A bachelor's degree from an accredited college or university with a distribution of liberal arts courses (70 quarter credits or 46 semester credits) and a minimum of 10 quarter credits or 6 semester credits in each of the general distribution areas: humanities, social sciences, and natural sciences/mathematics.

Applicants must complete coursework with a minimum of a C letter grade in a math or research course which contains content on descriptive and inferential statistics. Applicants must also be able to demonstrate in their completed curriculum that they possess fundamental understanding of the biological basis of human behavior.

2. An overall undergraduate grade point average (GPA) of 3.0 or higher and a GPA of 3.0 or higher for the junior and senior years of undergraduate study.

3. Note: Applicants may not receive academic credit for work experience in the field or for life experience.

The Master of Social Work Program has one concentration: Advanced direct practice with individuals and families. Students in the two year program must complete a total of 63 credits including 18 credits in Field Work. Students in the Advanced Standing program complete 31 credits with 12 credits in Field Work.

Note: Students may receive certification to practice social work in the State of Idaho by completing SOCWRK 562 School Social Work, SOCWRK 575 and 576 in an approved K-12 educational setting under the supervision of a professional social worker, and all other requirements for the Master of Social Work degree.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Master of Social Work — Two Year Program</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Year One—Foundation</strong></td>
<td></td>
</tr>
<tr>
<td>SOCWRK 502 Foundation of Social Welfare and Social Work: History and Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 503 Foundation Social Work Practice I: Individuals and Groups</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 504 Foundation Social Work Practice II: Families and Communities</td>
<td>3</td>
</tr>
<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>
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<tr>
<td>SOCWRK 515 Foundation Social Work Practice III: Organizations and Communities</td>
<td>3</td>
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<tr>
<td>SOCWRK 521 HBSE II Social Dimensions of Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 530 Foundations of Research I</td>
<td>2</td>
</tr>
<tr>
<td>SOCWRK 531 Foundations of Research II</td>
<td>2</td>
</tr>
<tr>
<td>SOCWRK 570 Foundation Field Work I</td>
<td>2</td>
</tr>
<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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</tr>
<tr>
<td>SOCWRK 574 Foundation Practicum Seminar II</td>
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<tr>
<td><strong>Year Two—Advanced</strong></td>
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<tr>
<td>SOCWRK 506 Advanced Policy and Legislation: Individuals and Families</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 525 Advanced Social Work Interventions I: Individuals and Families</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 526 The Evaluation and Treatment of Mental Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 532 Advanced Research: Program and Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 550 Advanced Interventions I: Comparative Theories</td>
<td>3</td>
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<td>SOCWRK 575 Advanced Social Work Practicum I</td>
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<tr>
<td>SOCWRK 576 Advanced Social Work Practicum II</td>
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<tr>
<td>SOCWRK 577 Advanced Practicum Seminar I</td>
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<tr>
<td>SOCWRK 578 Advanced Practicum Seminar II</td>
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<tr>
<td>*Two electives</td>
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<tr>
<td><strong>Total</strong></td>
<td>63</td>
</tr>
</tbody>
</table>

continued
Health Sciences

School of Social Work

Master of Social Work – Two Year Program (continued)

*Specialization Electives (2 credits each)

Selected Topics

(Voluntary options will vary from year to year, and may include these or other pertinent issues.)

- Violence in the Family
- Substance Abuse
- Women’s Issues
- Social Work with the Elderly
- Grant Writing/Administration
- International Social Work
- Social Work with People of Color

Curriculum Guidelines established by the Council on Social Work Education are available in the School of Social Work office.

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 nine-month program.

Criteria for admission for Advanced Standing study in the MSW program are:

2. Minimum GPA of 3.0 in social work courses from an accredited undergraduate program. Students with an individual social work course with a grade less than C will be required to complete additional equivalent content.
3. This degree must have been completed within five years of the applicant’s planned entry into Boise State University’s MSW program OR within seven years if the applicant has substantial paid social work experience.
4. All other requirements equivalent to regular admissions.

Applicants may not receive academic credit for work experience in the field.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCWRK 513 Advanced Issues in Human Diversity</td>
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</tr>
<tr>
<td>SOCWRK 529 Research and Statistics for Social Work</td>
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Advanced Year

<table>
<thead>
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<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCWRK 506 Advanced Policy and Legislation: Individuals and Families</td>
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</tr>
<tr>
<td>SOCWRK 525 Advanced Social Work Interventions II: Individuals and Families</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 526 The Evaluation and Treatment of Mental Disorders</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 532 Advanced Research: Program and Practice Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 550 Advanced Interventions I: Comparative Theories</td>
<td>3</td>
</tr>
<tr>
<td>SOCWRK 575 Advanced Social Work Practicum I</td>
<td>5</td>
</tr>
<tr>
<td>SOCWRK 576 Advanced Social Work Practicum II</td>
<td>5</td>
</tr>
<tr>
<td>SOCWRK 577 Advanced Practicum Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>SOCWRK 578 Advanced Practicum Seminar II</td>
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</tr>
</tbody>
</table>

*Two electives

continued

Master of Social Work – Advanced Standing (Continued)

*Specialization Electives (2 credits each)

Selected Topics

(Voluntary options will vary from year to year, and may include these or other pertinent issues.)

- Violence in the Family
- Substance Abuse
- Women’s Issues
- Social Work with the Elderly
- Grant Writing/Administration
- International Social Work
- Social Work with People of Color

Curriculum Guidelines established by the Council on Social Work Education are available in the School of Social Work office.

Graduate Certificate in Refugee Services

Graduate Program Coordinator: Kathy Tidwell
Education Building, Room 716F, Mail Stop 1940
Phone: (208) 426-5937
E-mail: kathytidwell@boisestate.edu

General Information

The Graduate Certificate in Refugee Services is designed to prepare clinical graduate students and community practitioners to provide culturally competent, evidence-based mental health care for refugees.

Admission Requirements

Admission to the certificate program requires admission to the Graduate College, and a clinical graduate program or a clinical license to practice. In addition, the academic background of the applicant must be judged by the Graduate Program Coordinator to be adequate for enrolling in graduate social work courses. Meeting these minimum requirements does not guarantee admission to the certificate program.

Application Procedures

An applicant to the certificate program must follow the general application procedures of the Graduate College for admission to a graduate program. The applicant must then submit a letter of interest to the Graduate Program Coordinator who will make admission recommendations to the teaching faculty for each of the courses.
Certificate Requirement
Graduate Certificate in Refugee Services

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>REFUGEE 517 (SOCWRK 517) Principles of Refugee Resettlement</td>
<td>3</td>
</tr>
<tr>
<td>REFUGEE 518 (SOCWRK 518) Working Across Cultures with Refugees</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 1 course from the choices below:
- REFUGEE 507 (SOCWRK 507) Introduction to Refugee Program Supervision and Management (3 cr)
- REFUGEE 508 (SOCWRK 508) Advanced Refugee Macro Practice (3 cr)
- REFUGEE 509 (SOCWRK 509) Management of Clinical Services for Refugees (3 cr)
- REFUGEE 519 (SOCWRK 519) Case Management with Refugees (3 cr)

Capstone
- REFUGEE 510 (SOCWRK 510) Refugee Services Capstone (3 cr)

Total
- 12 credits

Gerontological Studies—see Interdisciplinary Programs

Course Offerings
See Course Numbering and Terminology for definitions.

REFUGEE

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. PRE/Coreq: REFUGEE 517 or SOCWRK 517; and REFUGEE 518 or SOCWRK 518.

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. PRE/CoReq: REFUGEE 517 or SOCWRK 517; and REFUGEE 518 or SOCWRK 518.

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. PRE/CoReq: REFUGEE 517 or SOCWRK 517; and REFUGEE 518 or SOCWRK 518.

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. PRE/CoReq: REFUGEE 507 or REFUGEE 508 or REFUGEE 519 or equivalent; and REFUGEE 517 or SOCWRK 517; and REFUGEE 518 or SOCWRK 518.

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 502 FOUNDATION OF SOCIAL WELFARE AND SOCIAL WORK: HISTORY AND PHILOSOPHY (3-0-3)(F). The major purpose of this course is to place the profession of Social Work within historical context. The course explores the development of social welfare institutions and the Social Work profession in the United States from its European roots, emphasizing social welfare issues and social policy and programmatic responses. This course also examines the impacts of social welfare laws and policies on individual and group identities and social welfare programs. PREREQ: Admission to MSW Program.

SOCWRK 503 FOUNDATION SOCIAL WORK PRACTICE I: INDIVIDUALS (3-0-3)(F). This is the first practice course within the foundation year of the MSW program. Practice I introduces students to knowledge and skills 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. PREREQ/Coreq: SOCWRK 512; SOCWRK 570.

SOCWRK 504 FOUNDATION SOCIAL WORK PRACTICE II: FAMILIES AND GROUPS (3-0-3)(S). 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 the student to theories and skills required for social work practice with diverse families and groups including assessing, building upon strengths and resources within all client systems, social work values and ethics, and delivering empirically based interventions to small groups and families. PREREQ: SOCWRK 503. Pre/coreq: SOCWRK 512; SOCWRK 572.

SOCWRK 505 FOUNDATION OF SOCIAL WELFARE POLICY (3-0-3)(S). 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; SOCWRK 502.

SOCWRK 506 ADVANCED POLICY AND LEGISLATION: INDIVIDUALS AND FAMILIES (3-0-3)(S). This advanced policy course is designed to prepare students with the knowledge and skills to analyze, design, and advocate for social welfare policy and programs, with a specific focus on policies and programs which affect individuals and families. The course examines various theoretical approaches to family policy, as well as current policy issues and legislation. Research on family needs is emphasized. The cultural values and ideological orientations that undergird policy preferences are critiqued. An introduction to family policy approaches in other nations sharpens this critique. 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. PRE/CoReq: REFUGEE 517 or SOCWRK 517; and REFUGEE 518 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: Admission to MSW program or PERM/INST.

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
Case management knowledge and skills as applied in refugee resettlement. Preparers 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; and REFUGEE 517 or SOCWRK 517; and REFUGEE 518 or SOCWRK 518.

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. PRE/Coreq: REFUGEE 507 or REFUGEE 508 or REFUGEE 519 or equivalent; and REFUGEE 517 or SOCWRK 517; and REFUGEE 518 or SOCWRK 518.

SOCWRK 512 HBS 1 HUMAN DEVELOPMENT THROUGH THE LIFE CYCLE (3-0-3)(F). Examines the use of a biopsychosociocultural development framework, within the context of social work values and ethics, in understanding the interrelationships among human, biological, psychological, and social systems as they affect and are affected by human behavior. Examines and contrasts empirically-based theories of human development. Students learn age-related tasks commonly associated with different life stages, influenced by gender, historical time, culture, and economics. Examines unique factors affecting development of women, ethnic and racial groups, GLBTQ individuals, people with disabilities, and other historically oppressed people. PREREQ: Admission to MSW Program.

SOCWRK 513 ADVANCED ISSUES IN HUMAN DIVERSITY (3-0-3)(SU). Develop knowledge and skills required to effectively work with persons from diverse backgrounds. A highly experiential course requiring overt and candid investigation of personal identity development and ways of thinking about practicing social work with persons from diverse backgrounds. PREREQ: Admission to Advanced Standing MSW Program.

SOCWRK 514 ETHNICITY, GENDER AND CLASS (1-0-1)(F,SU). This experiential course in a small group format is designed to provide a positive environment for students' exploration of their attitudes toward human diversity. The major objective is that students will increase their knowledge and awareness of the experiences of people of oppressed groups, in relation to historical prejudice and discrimination. Students will gain insight in sociohistorical and familial roots of their own biases and increase their ability to sensitively work with individuals and groups who are subjected to oppression, based on race ethnicity, gender, afflectional orientation, class, and other stigmatizing characteristics. PREREQ: Admission to MSW Program.

SOCWRK 515 FOUNDATION SOCIAL WORK PRACTICE III: ORGANIZATIONS AND COMMUNITIES (3-0-3)(S). 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 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 572.

SOCWRK 517 (REFUGEE 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 (REFUGEE 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 (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)(S). This course explores the impact of social systems on human behavior in terms of social, political, and economic forces. Emphasizes the cultural forces, from a variety of theoretical perspectives. Examines the ways in which systems promote or deter achievement and maintenance of optimal health and well-being. The effects of prejudice and discrimination on individuals and groups, based on race, ethnicity, gender, afflectional orientation, class, or other stigmatizing characteristics are emphasized. PREREQ: SOCWRK 512.

SOCWRK 522 BEREAVED CHILDREN (3-0-3)(SU). An intensive service-learning hybrid course built on the premise that individual citizens have both the opportunity to be informed and proactively 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 I: INDIVIDUALS AND FAMILIES (3-0-3)(S). 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)(F). Prepares students to conduct systematic biopsychosocial assessment, formulate differential diagnostic impressions in accordance with the Diagnostic and Statistical Manual of Mental Disorders (DSM), and recommend treatment plans informed by the state of the art. Championing the development of robust helping relationships that empower consumers by building on assets and strengths, students are taught to monitor their practice for bias related to afflectional orientation, disability, ethnicity, gender, race, and spirituality. PREREQ: SOCWRK 504 or admission to Advanced Standing MSW Program.

SOCWRK 529 RESEARCH AND STATISTICS FOR SOCIAL WORK (3-0-3)(SU). 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 using computer software applications. PREREQ: Admission to Advanced Standing MSW Program.

SOCWRK 530 FOUNDATIONS OF RESEARCH I (2-0-2)(F). 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)(S). 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: SOCWRK 530.

SOCWRK 532 ADVANCED RESEARCH: PROGRAM AND PRACTICE EVALUATION (3-0-3)(F). 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. The course is intended to prepare students to participate in and utilize outcome evaluation of practice in their agency settings. Students complete an evaluation project in this course in conjunction with their advanced practicum placement. PREREQ: Admission to MSW Program or SOCWRK 530 and SOCWRK 531 COREQ: SOCWRK 575.

SOCWRK 550 ADVANCED INTERVENTIONS I: COMPARATIVE THEORIES (3-0-3)(F). 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. 

**SOEWRK 561 CORE CONCEPTS IN TRAUMA-INFORMED CHILD WELFARE PRACTICE (2-0-2)** (S). Introduces students to the core concepts (general theory and foundational knowledge), informing evidence-based assessment and treatment for traumatized children and adolescents who are in the child welfare system. Highlights the roles of development, culture, and empirical evidence in trauma-specific assessment, referral and treatments, the level of functioning of primary care-giving environments and the capacity of the community and child welfare system to facilitate restorative processes. PREREQ: Admission to MSW program.

**SOEWRK 562 SCHOOL SOCIAL WORK (2-0-2)** (S). To develop an in-depth understanding of school social work skills and knowledge. Emphasis on social work from a point of view that incorporates knowledge and values from a broad range of social work theoretical approaches. PREREQ: SOEWRK 550.

**SOEWRK 563 ALCOHOLISM AND SUBSTANCE ABUSE (2-0-2)** (S). Examines theories and causes of alcoholism and substance abuse, criteria for assessment, and major treatment approaches for working with individuals and families. PREREQ: SOEWRK 550.

**SOEWRK 564 AGING (2-0-2)** (S). 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: SOEWRK 550.

**SOEWRK 570 FOUNDATION FIELD WORK I (0-15-2)** (F). This foundation practicum provides students with a supervised social work practice experience in a social service agency under the direct supervision of a licensed social worker. It includes experiential learning in foundation social work values, skills and knowledge, and development of professional self. (Pass/Fail.) PREREQ: SOEWRK 503, SOEWRK 573 and admission to the MSW Two Year Program.

**SOEWRK 571 (COUN 571), MHLTHSCI 571** (F). 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 SOEWRK credit, but only for one department.

**SOEWRK 572 FOUNDATION FIELD WORK II (0-15-2)** (S). Continuation of SOEWRK 570. (Pass/Fail.) PREREQ: SOEWRK 503, SOEWRK 570, and admission to the MSW Two Year Program. COREQ: SOEWRK 504 and SOEWRK 574.

**SOEWRK 573 FOUNDATION PRACTICUM SEMINAR I (1-0-1)** (F). Integrative seminar that facilitates development of a generalist practice perspective in social work values, skills and knowledge, and development of professional self. PREREQ: Admission to the MSW Two Year Program. COREQ: SOEWRK 503 and SOEWRK 570.

**SOEWRK 574 FOUNDATION PRACTICUM SEMINAR II (1-0-1)** (S). Continuation of SOEWRK 573. PREREQ: SOEWRK 503, SOEWRK 570, and admission to the MSW Two Year Program. COREQ: SOEWRK 504 and SOEWRK 572.

**SOEWRK 575 ADVANCED SOCIAL WORK PRACTICUM I (0-20-5)** (F). Provides students with a supervised social work practiced 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: SOEWRK 572 or admission to the MSW Advanced Standing Program. COREQ: SOEWRK 577.

**SOEWRK 576 ADVANCED SOCIAL WORK PRACTICUM II (0-20-5)** (S). Continuation of SOEWRK 575. (Pass/Fail.) PREREQ: SOEWRK 575. COREQ: SOEWRK 578.

**SOEWRK 577 ADVANCED PRACTICUM SEMINAR I (1-0-1)** (F). Integrative seminar that facilitates development of advanced direct social work practice knowledge, skills and values with individuals and families. PREREQ: SOEWRK 572 or admission to the MSW Advanced Standing Program. COREQ: SOEWRK 575.

**SOEWRK 578 ADVANCED PRACTICUM SEMINAR II (1-0-1)** (S). Continuation of SOEWRK 577. PREREQ: SOEWRK 575, SOEWRK 577. COREQ: SOEWRK 576.

**SELECTED TOPICS (1-4 VARIABLE)**. To be offered as staff availability permits:

- **SOEWRK 580 SOCIAL WORK WITH DIVERSE POPULATIONS**
- **SOEWRK 581 SOCIAL WORK WITH FAMILIES**
- **SOEWRK 582 SOCIAL WORK WITH THE ELDERLY**
- **SOEWRK 583 SOCIAL WORK WITH SPECIAL NEEDS POPULATIONS**
- **SOEWRK 584 SOCIAL WORK WITH CHILDREN AND YOUTH**
- **SOEWRK 585 SOCIAL WORK PRACTICE WITH ORGANIZATIONS AND COMMUNITIES**
- **SOEWRK 586 SOCIAL WORK WITH GROUPS**
- **SOEWRK 587 SOCIAL WORK SUPERVISION**

Refer to the **University-wide Graduate Courses** section in this catalog for additional course offerings.
COLLEGE of SOCIAL SCIENCES and PUBLIC AFFAIRS
College of Social Sciences and Public Affairs

Interim Dean: Shelton Woods, Ph.D.
Education Building, Room 722, Mail Stop 1900
Phone: (208) 426-1368
Fax: (208) 426-4318
http://sspa.boisestate.edu

Interim Associate Dean:
Les Alm, Ph.D.
Phone: (208) 426-1368

Associate Dean for Faculty Development:
Andrew Giacomazzi, Ph.D.
Phone: (208) 426-1368

General Information
The mission of the College of Social Sciences and Public Affairs (SSPA) includes the following:

SSPA is the lead institution in the state of Idaho for providing education and scholarship in Public Affairs and Social Sciences. SSPA promotes excellence in teaching, research, and service to address major social and political issues, with an emphasis on urban issues. SSPA faculty and administration work to balance the theoretical and applied natures of our disciplines to best meet the needs of our student and community constituents. SSPA is committed to creating and advancing an understanding of the human experience, both past and present. Through research, teaching, and service the college provides unique insights regarding social conditions and public policy while engaging student learning and providing service to its local, regional, national, and global communities.

Faculty within the college teach a full range of social sciences classes, comprising twenty-four percent of Boise State University's total offerings. They conduct research in areas of vital concern to public policy, human behavior, and the working of society. In addition, faculty provide leadership as expert consultants to local, state, and national groups and participate in public-service activities within the local community.

The departments of Communication, Community and Regional Planning, Criminal Justice, History, Public Policy and Administration, and the School of Social Work, prepare students for careers in public and private sectors by offering the following graduate programs:

- Doctor of Philosophy in Public Policy and Administration
- Master of Arts in Anthropology
- Master of Applied Anthropology
- Master of Arts in Communication
- Master of Arts in Criminal Justice
- Master of Arts in History
- Master of Applied Historical Research
- Master of Community and Regional Planning
- Master of Public Administration
- Graduate Certificate in Community and Regional Planning
- Graduate Certificate in Conflict Management
- Graduate Certificate in Family Studies
- Graduate Certificate in Victim Services

The College also prepares students for careers in secondary education in history and the social sciences. In addition, the College's location in the state's population, business, and government hub provides outstanding opportunities for students to serve as interns in government agencies, the Idaho legislature, corporations, nonprofit agencies and numerous other places in the public and private sector.
Department of Anthropology

Chair: John Ziker  
Hemingway Western Studies Center, Room 55, Mail Stop 1950  
Phone: (208) 426-3023  
Fax: (208) 426-4329  
http://sspa.boisestate.edu/anthropology/  
E-mail: anthropology@boisestate.edu

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 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.

Application and Admission Requirements
Application and Admission Procedures. Prospective students are encouraged to discuss their goals and interests with the graduate program coordinator. An applicant must follow the general application procedures for admission to a graduate program (see Graduate Admission Regulations). An applicant must also provide GRE General Test scores, a letter of intent (describing background, academic interests, and career goals), and two letters of recommendation from academic faculty. Once the file for an applicant is complete, it will be evaluated by a committee and an admission recommendation (regular, provisional, or denial) will be forwarded to the graduate dean. The dean will make the final admission decision and notify the applicant.

Conditions for Admission. Applicants must satisfy the minimum admission requirements of the Graduate College and must hold a baccalaureate degree in anthropology or a related field. Admission is competitive and is not guaranteed to any applicant.

Student Guidance
The graduate program coordinator will assign a temporary faculty advisor to each student prior to the first semester of enrollment. By the end of the first semester, the advisor, in consultation with the student, will initiate the appointment of a three-person supervisory committee that will assume responsibility for guidance.

Master of Arts in Anthropology
Graduate Program Coordinator: Mark Plew  
Hemingway Western Studies Center, Room 55, Mail Stop 1950  
Phone: (208) 426-3444  
Fax: (208) 426-4329  
http://sspa.boisestate.edu/anthropology/  
E-mail: mplew@boisestate.edu

Degree Requirements
Master of Arts in Anthropology. Students must complete at least 31 credits distributed as shown in the degree requirements table. All students must complete at least one year of foreign language courses as a background requirement (language courses completed in an undergraduate program may fulfill this requirement); research in some geographic areas may require additional language skills. Based on guidance from their faculty advisory committee, students prepare for and successfully complete their preliminary examination. 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>
</tr>
</thead>
<tbody>
<tr>
<td>Core Sequence</td>
<td></td>
</tr>
<tr>
<td>ANTH 501 Adaptation and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 502 Human Evolutionary History and Development</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 503 History and Theory in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 504 Statistical Methods in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 513 Research Design in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>With the approval of the supervisory committee, a student may substitute a comparable 3-credit course for ANTH 504.</td>
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<tr>
<td>Elective Courses</td>
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</tr>
<tr>
<td>Electives must be approved by the supervisory committee.</td>
<td></td>
</tr>
<tr>
<td>Application of independent study to the elective requirement</td>
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<tr>
<td>is limited to 6 credits. Pass/Fail credits, workshop credits,</td>
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<tr>
<td>and practicum/internship credits are not applicable to elective requirements.</td>
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<tr>
<td>Preliminary Examination</td>
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<tr>
<td>ANTH 686 Master’s Preliminary Examination</td>
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<td>Culminating Activity</td>
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</tr>
<tr>
<td>ANTH 593 Thesis (minimum requirement)</td>
<td></td>
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<tr>
<td>Total</td>
<td>31</td>
</tr>
</tbody>
</table>
Master of Applied Anthropology

Graduate Program Coordinator: Mark Plew
Hemmingway Western Studies Center, Room 55, Mail Stop 1950
Phone: (208) 426-3444
Fax: (208) 426-4329
http://sspa.boisestate.edu/anthropology/
E-mail: mplew@boisestate.edu

Degree Requirements

Masters of Applied Anthropology. Students must complete at least 33 credits distributed as shown in the degree requirements table. 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>
</tr>
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<tbody>
<tr>
<td><strong>Core Sequence</strong></td>
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<tr>
<td>ANTH 501 Adaptation and Human Behavior</td>
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<td>ANTH 502 Human Evolutionary History and Development</td>
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<tr>
<td>ANTH 503 History and Theory in Anthropology</td>
<td>3</td>
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<tr>
<td><strong>Skill Sequence</strong></td>
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<tr>
<td>ANTH 504 Statistical Methods in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 513 Research Design in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 524 Introduction to Cultural Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 560 Introduction to Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective Courses</strong></td>
<td>6</td>
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<td>Electives must be approved by the supervisory committee.</td>
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<tr>
<td><strong>Culminating Activity</strong></td>
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<tr>
<td>ANTH 591 Project</td>
<td>6</td>
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<td><strong>Total</strong></td>
<td>33</td>
</tr>
</tbody>
</table>

Course Offerings

See Course Numbering and Terminology for definitions.

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 human-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 (F)(S). Philosophical and theoretical issues in anthropology. Development in methodology and technical advances in anthropological research. Seminar topics will vary.

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

Chair: Rick Moore
Communication Building, Room 100, Mail Stop 1920
Phone: (208) 426-3320
http://sspa.boisestate.edu/communication/

Master of Arts in Communication

Graduate Program Coordinator: Natalie Nelson-Marsh
Communication Building, Room 103, Mail Stop 1920
Phone: (208) 426-2258
E-mail: natalienelsonmarsh@boisestate.edu

General Information

The Department of Communication offers a graduate program leading to the Master of Arts in Communication degree. The program prepares students to analyze and function within various levels of social relationships from interpersonal to family, organizational, and political arenas of contemporary life. Students develop a comprehensive theoretical background and conceptual skills required for transformative practices in a broad variety of contexts. Emphasis is placed on how questions of ethics, values and processes, and community inform knowledge of and about communication.

Application and Admission Requirements

Application and Admission Procedures

Prospective students should discuss their goals and interests with the graduate program coordinator prior to submitting an application. An applicant must follow the general application procedures for admission to a graduate program (see the Graduate Admission Regulations section of this catalog), and also provide a letter of intent (describing background, academic interests, and career goals), copy of original scholarly paper, and three letters of recommendation from academic faculty. Students also must provide their Graduate Record Examination (GRE) scores. Once the file for an applicant is complete, it will be evaluated by the department graduate committee and the coordinator, and an admission recommendation (regular, provisional, or denial) will be forwarded to the graduate dean. The graduate dean will make the final admission decision and notify the applicant.

Conditions for Admission

Applicants must satisfy the minimum admission requirements of the Graduate College (see the Graduate Admission Regulations section of this catalog). The required baccalaureate degree must be in communication or a related field involving substantial course work in communication. For regular admission, applicants must have completed an undergraduate social sciences research methods course and a communication theory course. Admission is competitive and it is possible that not all qualified applicants will be admitted to the program.

Student Guidance

By the end of the first semester, the graduate program coordinator, in consultation with the student, will initiate the appointment of a three-person supervisory committee that will assume responsibility for student guidance.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Sequence</strong></td>
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</tr>
<tr>
<td>COMM 501 Communication Research and Writing</td>
<td>3</td>
</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>
<td>12-18</td>
</tr>
<tr>
<td>Choose from the following courses to total 12-18 credits</td>
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</tr>
<tr>
<td>COMM 506 Interpersonal Communication (3 cr)</td>
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<tr>
<td>COMM 507 Organizational Communication (3 cr)</td>
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<tr>
<td>COMM 508 Media Theory and Practice (3 cr)</td>
<td></td>
</tr>
<tr>
<td>COMM 509 Legal and Ethical Aspects of Communication (3 cr)</td>
<td></td>
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<tr>
<td>COMM 510 Communication, Community and Politics (3 cr)</td>
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<td>COMM 511 Critical Theory (3 cr)</td>
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<td>COMM 512 Culture and Communication (3 cr)</td>
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<tr>
<td>COMM 513 Public Relations (3 cr)</td>
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<tr>
<td>COMM 514 Media Writing (3 cr)</td>
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<tr>
<td>COMM 580 Selected Topics: Advanced Theory and Philosophy (3 cr)</td>
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<tr>
<td>COMM 581 Selected Topics: Advanced Research and Writing (3 cr)</td>
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<td>COMM 582 Selected Topics: Advanced Interpersonal Communication (3 cr)</td>
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<tr>
<td>COMM 583 Selected Topics: Advanced Organizational Communication (3 cr)</td>
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<tr>
<td>COMM 584 Selected Topics: Advanced Media Theory and Practice (3 cr)</td>
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<td>COMM 585 Selected Topics: Advanced Culture and Communication (3 cr)</td>
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<td>COMM 586 Selected Topics: Advanced Studies in Critical Theory (3 cr)</td>
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<tr>
<td>COMM 587 Selected Topics: Advanced Studies in Globalization (3 cr)</td>
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<tr>
<td>COMM 588 Selected Topics: Advanced Cross-Cultural Communication (3 cr)</td>
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<tr>
<td>COMM 589 Selected Topics: Advanced Public Relations (3 cr)</td>
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<tr>
<td><strong>Other Elective Courses</strong></td>
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<tr>
<td>Choose from the following courses as necessary to reach the total credit requirement:</td>
<td>12-18</td>
</tr>
<tr>
<td>COMM 590 Practicum/Internship (3-6 cr)</td>
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<tr>
<td>COMM 595 Reading and Conference (3-6 cr)</td>
<td></td>
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<tr>
<td>COMM 596 Independent Study (3-6 cr)</td>
<td></td>
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<tr>
<td><strong>Culminating Activity</strong></td>
<td></td>
</tr>
<tr>
<td>COMM 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>31</td>
</tr>
</tbody>
</table>

Elective Substitutions. A student may substitute up to three courses totaling no more than 9 credits to meet the elective requirements. These courses may be from departments outside of the Department of Communication. Approval is required by the supervisory committee and the graduate program coordinator, and the substitutions must be consistent with all applicable regulations of the Graduate College.
Course Offerings

See Course Numbering and Terminology for definitions.

COMM — Communication

COMM 501 COMMUNICATION RESEARCH AND WRITING (3-0-3)(F). A critical overview of leading theoretical and research traditions in communication studies, with special emphasis on epistemological issues. Examines the application of research to professional environments, civil society and other contexts.

COMM 505 THEORY AND PHILOSOPHY OF COMMUNICATION (3-0-3)(S). An overview of communication studies. Emphasizes the metaphysical, epistemological, ethical and aesthetic dimensions of various schools of communication thought.

COMM 506 INTERPERSONAL COMMUNICATION (3-0-3)(F). Examines the range and variety of theories and research in areas such as attraction, relational development and maintenance, friendship and courtship, inter-racial and same-sex relationships, and relationship decline.

COMM 507 ORGANIZATIONAL COMMUNICATION (3-0-3)(S). Survey of contemporary theory and research as applied to the study of all types of organizations. Explores the role of communication in the creation and constitution of organizational reality.

COMM 508 MEDIA THEORY AND PRACTICE (3-0-3)(F). 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 and professional organizations who work with media, as well as media practitioners. Topics may include theory and research regarding the media’s role in education, persuasion, entertainment, socialization, social structure, politics, psychological effects, and business.

COMM 509 LEGAL AND ETHICAL ASPECTS OF COMMUNICATION (3-0-3)(S). Advanced examination of ethical and legal issues facing practitioners and the public. Topics may 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). Concentrates on the intersections among theory and practice in communication studies, community organization and political science. It looks at all three in terms of the exercise of power, and the conflicts between autonomy and control in a range of social settings.

COMM 511 CRITICAL THEORY (3-0-3)(S). A seminar on the work of the Frankfurt School and its role in the communication theory of society. Special emphasis on critical epistemology as social theory, the political economy of culture, and discourses growing out of twentieth-century and twenty-first century debates over modernity.

COMM 512 CULTURE AND COMMUNICATION (3-0-3)(F). Advanced studies in current issues and theoretical perspectives in the study of rhetoric, communicative relationships, the art and performance of communication, and intercultural communication. Topics include the history of the terms “culture” and “communication,” and the evolution of theoretical perspectives on both terms.

COMM 513 PUBLIC RELATIONS (3-0-3)(F). Advanced studies in public information, investor relations, public affairs, corporate and nonprofit communication, marketing or customer relations, with emphasis on how public relations also helps shape organizations and the way they work. Topics include the history of public relations and the role of research, feedback and evaluation in the design of effective campaigns and messages in an information-rich society.

COMM 514 MEDIA WRITING (3-0-3)(S). An intensive examination of the theory and practice of information-gathering and writing techniques for print and broadcast media. Subjects include strategic and technical writing, business writing, documentation, speeches, and integrating the written word with visual design.

SELECTED TOPICS (1-4 Variable). To be offered as staff availability permits:

- COMM 580 ADVANCED THEORY AND PHILOSOPHY
- COMM 581 ADVANCED RESEARCH AND WRITING
- COMM 582 ADVANCED INTERPERSONAL COMMUNICATION
- COMM 583 ADVANCED ORGANIZATIONAL COMMUNICATION
- COMM 584 ADVANCED MEDIA THEORY AND PRACTICE
- COMM 585 ADVANCED CULTURE AND COMMUNICATION
- COMM 586 ADVANCED STUDIES IN CRITICAL THEORY
- COMM 587 ADVANCED STUDIES IN GLOBALIZATION
- COMM 588 ADVANCED CROSS-CULTURAL COMMUNICATION
- COMM 589 ADVANCED PUBLIC RELATIONS

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

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Department of Community and Regional Planning

Director: Jaap Vos
Environmental Research Building, Room 1143, Mail Stop 1935
Phone: (208) 426-2606
Fax: (208) 426-4370
E-mail: jaapvos@boisestate.edu

Graduate Degrees Offered
- Master of Community and Regional Planning
- Graduate Certificate in Community and Regional Planning

Master of Community and Regional Planning

Director: Jaap Vos
Environmental Research Building, Room 1143, Mail Stop 1935
Phone: (208) 426-2606
Fax: (208) 426-4370
E-mail: jaapvos@boisestate.edu

General Information
The Master of Community and Regional Planning (MCRP) is offered through the Department of Community and Regional Planning in the College of Social Sciences and Public Affairs in cooperation with other academic departments within the university. Boise State University is entrusted with the statewide mission in social sciences and public affairs, is located in the state capital and largest metropolitan area, and is charged by its strategic plan with community engagement. The MCRP program connects the university’s scholarly expertise in planning, public policy, the environment, land use, transportation, and economic policy-making with the professional expertise of planning from Boise and the surrounding area.

After completion of program, students will have the foundation needed to assume a variety of long-term professional roles in the public, private and nonprofit sectors as shown by their ability to:

1. Demonstrate an understanding and sensitivity of the complex ethical realm and equity issues of professional planners specifically with respect to diverse culture, people, and places.”
2. Show an evolutionary knowledge of planning practice and theory.
3. Demonstrate expertise in both qualitative and quantitative skills through research design, data gathering, and analysis.
4. Identify the internal and external forces that shape planning cultures and context.
5. Identify and actively engage stakeholders in planning in a meaningful way.
6. Apply theory to practice.
7. Communicate effectively with internal and external audiences.
8. Utilize planning expertise with an understanding of the unique qualities and challenges of communities in the Western Region of the United States
9. Appropriately assess complex situations and determine their role in moving the planning process forward.

Application Requirements
An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations). After the Graduate College has reviewed all materials and confirmed that you are eligible for admission in a graduate program, you will receive a certificate of admission to enroll in courses at Boise State University. This certificate is a prerequisite to admission into the MCRP program, but does not guarantee admission into the program.

Admission Requirements
The Graduate College will forward your certificate of admission to us and we will review your application. In addition, to what you have already sent to the Graduate College, you will have to send the following materials to the Department of Community and Regional Planning:

1. Three letters of recommendation evaluating both your academic potential and your potential as a professional planner or in a planning-related profession.
2. A signed statement of interest explaining your career goals and reasons for entering the Graduate Program.
3. Your current resume and/or portfolio.
4. If your overall grade point average in the last 60 hours of undergraduate course work was not a 3.0 or better, you will have to take the GRE and achieve a combined score of 300 or better on the Quantitative and Verbal section of the GRE (prior to October 2011, the combined score should be a 1000 or better).

The faculty will review all of your materials and if you meet our minimum expectations, we will invite you to campus for an interview/orientation.

Interview/Orientation  The day long on-campus interview/orientation is intended to provide us with additional information about you and to give you an opportunity to see what is going on in the department and in the Treasure Valley.

Please visit http://sspa.boisestate.edu/planning/admissions/ for additional information.

Degree Requirements
The curriculum for the Master of Community and Regional Planning requires a core sequence in planning theory and methods. The emphasis areas allow students to specialize in one of four areas:
1) Environmental and Natural Resource Planning and Policy 2) Land Use and Transportation Planning 3) Economic Development Planning and Analysis or 4) Housing, Social and Community Development Planning. The degree requires 42 hours of course work and 3 credit hours of internship and 3 credit hours of capstone course credit. (MCRP students with at least one year of planning experience may waive the 3 credit hours of planning internship.)
Master of Community and Regional Planning

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCRP students must successfully complete 48 credit hours of approved MCRP course work. Twenty-one semester credit hours are in planning and methods core courses. Twenty-one additional semester credit hours are in the student's area of emphasis and the electives requirement. Additionally, students complete 3 credits of internship and a 3 credit hour capstone experience.</td>
<td></td>
</tr>
</tbody>
</table>

Course Selection
Selection of courses is to be made in consultation with the student's academic advisor.

Planning Core Requirements
Each MCRP student is required to complete the following core courses. The core courses emphasize the knowledge and skills necessary to be an effective planner.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRP 500 History and Theory of Planning</td>
<td>3</td>
</tr>
<tr>
<td>CRP 501 Introduction to Community and Regional Planning</td>
<td>3</td>
</tr>
<tr>
<td>CRP 502 Economic Applications to Community and Regional Planning</td>
<td>3</td>
</tr>
<tr>
<td>CRP 503 Plan Making and Implementation</td>
<td>3</td>
</tr>
</tbody>
</table>

Methods Core Sequence
The methods core courses require students to develop skills that will enable them to be effective planners and also provide an opportunity for students to obtain methodological skills that will be most appropriate to their professional goals.

Required
CRP 504 Introduction to Policy Formation-Geographic Information Systems (GIS) or GEOG 560 Introduction to Geographic Information Systems (3 cr)
CRP 505 Community Data (3 cr)

Choose one
CE 537 GIS in Water Resources (3 cr)
CRP 510 GIS Applications and Visualization Techniques in Planning (3 cr)
CRP 511 Qualitative Methods (3 cr)
CRP 512 Quantitative Methods (3 cr)
GEOG 561 Remote Sensing and Image Processing (3 cr)
GEOG 562 Geographic Information Analysis (3 cr)
GEOG 563 Geospatial Project (3 cr)

Area of Emphasis Requirements
An area of emphasis is a concentration in the program that provides the student with a field of specialization. Each student is required to complete 12 credit hours drawn from one of the four areas of emphasis. Selected Topics courses will be offered to supplement areas of emphasis.

1. Environmental and Natural Resource Planning and Policy
Required
PUBADM 541 Environmental and Regulatory Policy and Administration (3 cr)

Choose three
CE 522 Hazardous Waste Engineering (3 cr)
CRP 551 Sustainable Development (3 cr)
MHLTHSCI 510 Advanced Environmental Health (3 cr)
PUBADM 540 Contemporary Issues in Natural Resource and Environmental Policy and Administration (3 cr)
PUBADM 543 Public Land and Resource Policy and Administration (3 cr)

2. Land Use and Transportation Planning
Required
CRP 520 Introduction to Land Use and Transportation Problems and Policy (3 cr)

Choose three
CE 572 Transportation Planning (3 cr)
CE 575 Traffic Engineering (3 cr)
CMGT 570 Land Development (3 cr)
CRP 521 Economics of Transportation Planning (3 cr)
CRP 523 Planning and Zoning (3 cr)
CRP 533 Public Finance for Planners (3 cr)
CRP 540 Housing Policy and Community Development (3 cr)
CRP 541 Community Design and Site Planning (3 cr)
CRP 551 Sustainable Development (3 cr)

3. Economic Development Planning and Analysis
Required
CRP 530 State, Regional and Community Economic Development (3 cr)

Choose three
CRP 531 Public/Private and Mixed Enterprises Planning (3 cr)
CRP 532 Real Estate Development (3 cr)
CRP 533 Public Finance for Planners (3 cr)
CRP 534 Downtown Revitalization (3 cr)

4. Housing, Social, and Community Development Planning
Required
CRP 540 Housing Policy and Community Development (3 cr)

Choose up to nine credits
CMGT 570 Land Development (3 cr)
CRP 523 Planning and Zoning (3 cr)
CRP 530 State, Regional and Community Economic Development (3 cr)
CRP 532 Real Estate Development (3 cr)
CRP 533 Public Finance for Planners (3 cr)
CRP 541 Community Design and Site Planning (3 cr)
CRP 551 Sustainable Development (3 cr)
DISPUT 502 Negotiation Theory and Practice (1 cr)
DISPUT 504 Facilitating Groups in Conflict (1 cr)
Graduate Certificate in Community and Regional Planning

Director of Certificate Program: Jaap Vos
Environmental Research Building, Room 1143, Mail Stop 1935
Phone: (208) 426-2606
Fax: (208) 426-4370
E-mail: jaapvos@boisestate.edu

General Information

The Graduate Certificate in Community and Regional Planning assists working professionals and students to understand and respond to community needs in planning. The certificate program focuses on a general understanding of the elements and current practices in planning, as well as technical skills needed by practicing planners.

Application and Admission Requirements

A prospective student may apply at any time but must follow the general application procedures for admission to a graduate program (see the Graduate Admission Regulations section of this catalog). If approved by the Graduate College, the applicant receives permission to enroll in graduate courses at Boise State. The Admission to the Graduate College is a prerequisite to admission to the graduate Certificate in Community and Regional Planning Program but by itself is not a guarantee of admission into the Community and Regional Planning Graduate Certificate Program.

Applicants admitted to the Graduate College who wish to apply to the Graduate Certificate in Community and Regional Planning Program must meet the following requirements prior to enrollment in the planning certificate courses:

1. Possess a baccalaureate degree from an accredited institution.
2. Demonstrate satisfactory academic competency by attaining an overall GPA of at least 3.0 in previous college-level course work.
3. Meet with the Director of the Graduate Certificate in Community and Regional Planning Program to discuss the admission process, the applicant’s career interests, and the reason for seeking admission to the Graduate Certificate in Community and Regional Planning Program.
4. Submit three letters of reference, in which the applicant’s academic potential is evaluated, to the Director, Graduate Certificate of Community and Regional Planning Program, Boise State University, 1910 University Drive, Boise, ID 83725-1935. (For applicants whose academic record predates the College of Social Sciences and Public Affairs
Department of Community and Regional Planning

<table>
<thead>
<tr>
<th>Master of Community and Regional Planning (continued)</th>
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</thead>
<tbody>
<tr>
<td><strong>Elective Courses</strong></td>
</tr>
<tr>
<td>Students must complete 9 elective semester credit hours in addition to their area of emphasis and core requirements. These credits may be taken as courses or as a CRP 696 Directed Research which relates to their area of emphasis. Any courses in the emphasis areas that are beyond the required methods or emphasis area credit hours needed can count as electives as well as other appropriate graduate classes with advisor approval. HIST 594, PUBADM 581, PUBADM 582, and PUBADM 583 can be taken for elective credit only with permission of the CRP program coordinator.</td>
</tr>
<tr>
<td>CE 512 (GEOS 512) Hydrogeology (3 cr)</td>
</tr>
<tr>
<td>CE 526 (GEOS 526) Aqueous Geochemistry (3 cr)</td>
</tr>
<tr>
<td>CE 564 Seepage, Drainage, Flow Nets and Embankments (3 cr)</td>
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<tr>
<td>CRP 522 Planning: Process and Practice (3 cr)</td>
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<tr>
<td>CRP 561 Legal Frameworks (3 cr)</td>
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<tr>
<td>CRP 581 Environmental and Natural Resources (1-3 cr)</td>
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<tr>
<td>CRP 582 Land Use and Transportation (1-3 cr)</td>
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<tr>
<td>CRP 583 Economic Development (1-3 cr)</td>
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<tr>
<td>CRP 584 Housing, Social, and Community Development (1-3 cr)</td>
</tr>
<tr>
<td>CRP 585 Practice of Planning (1-3 cr)</td>
</tr>
<tr>
<td>CRP 586 (PUBADM 586) Community and Regional Planning (1-3 cr)</td>
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<tr>
<td>GEOS 516 Hydrology (3 cr)</td>
</tr>
<tr>
<td>HIST 594 Workshops (1-3 cr)</td>
</tr>
<tr>
<td>MHLTHSCI 517 Principles of Toxicology (2 cr)</td>
</tr>
<tr>
<td>MHLTHSCI 542 Hazardous Waste Management (2 cr)</td>
</tr>
<tr>
<td>MHLTHSCI 560 Public Health Disaster Preparedness Planning: Risk Management (3 cr)</td>
</tr>
<tr>
<td>PUBADM 501 Public Policy Process (3 cr)</td>
</tr>
<tr>
<td>PUBADM 560 State and Local Government Policy and Administration (3 cr)</td>
</tr>
<tr>
<td>PUBADM 581 Selected Topics: Natural Resource and Environmental Policy (1-3 cr)</td>
</tr>
<tr>
<td>PUBADM 582 Selected Topics: Public Policy and Policy Analysis (1-3 cr)</td>
</tr>
<tr>
<td>PUBADM 583 Selected Topics: Public Management Skills and Techniques (1-3 cr)</td>
</tr>
<tr>
<td><strong>Planning Internship</strong></td>
</tr>
<tr>
<td>CRP 590 Practicum/Internship</td>
</tr>
<tr>
<td><strong>Capstone Experience</strong></td>
</tr>
<tr>
<td>CRP 692 Capstone Course</td>
</tr>
<tr>
<td>This culminating activity is a collaborative problem solving project – planning practicum.</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

Planning Internship  MCRP students with at least one year of planning experience may waive the internship requirement. The internship is served in the private sector with an company such as a private developer or engineering firm, a public or non-profit agency at the federal, state, or local level, or other appropriate organization. The internship component comprises three (3) credit hours. The internship is meant to be a meaningful experience for both the MCRP student and the organization in which the internship is served. Through the internship, students can further enhance their preparation for work in the planning profession. At the same time, they are expected to make a valuable contribution to their assigned organizations. The internship is usually served when the student has completed at least one half of the course work in MCRP program.
8. Students are allowed only 3 credits of pass/fail and 3 credits of workshops to count toward their certificate in Community and Regional Planning.

9. Prior to the first semester of course work students must meet with the Director to complete their Program Development form.

Once the file for an applicant is complete, it will be evaluated by the Director of the Graduate Certificate in Community and Regional Planning Program and its admission faculty committee. An admission recommendation will be forwarded to the Dean of the Graduate College. The Dean will make the final admission decision and notify the applicant. Admission to and successful completion of the Graduate Certificate in Community and Regional Planning Program does not guarantee admission to any other graduate program.

If students would like to simultaneously enroll in another Graduate degree program, they may do so subject to the conditions outlined in the Regulations for Graduate Certificate Programs (under Simultaneous Enrollment in Graduate Certificate and Degree Program) in this catalog.

Certificate Requirements

<table>
<thead>
<tr>
<th>Graduate Certificate in Community and Regional Planning</th>
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</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
</tr>
<tr>
<td><strong>Core courses</strong></td>
</tr>
<tr>
<td>Each Community and Regional Planning Certificate student is required to complete nine credit hours of core courses.</td>
</tr>
<tr>
<td>CRP 501 Introduction to Community and Regional Planning (3 cr)</td>
</tr>
<tr>
<td>CRP 504 Introduction to Policy Formation: Geographic Information Systems (GIS) or GEOG 560 Introduction to Geographic Information Systems (3 cr)</td>
</tr>
<tr>
<td>PUBADM 560 State and Local Government Policy and Administration (3 cr)</td>
</tr>
<tr>
<td><strong>Elective Courses</strong></td>
</tr>
<tr>
<td>Students must complete 6 credit hours from the electives listed below or other graduate courses. Note: Not more than three credit hours of DISPUT courses may be counted toward the certificate requirements.</td>
</tr>
<tr>
<td>CE 572 Transportation Planning (3 cr)</td>
</tr>
<tr>
<td>CE 575 Traffic Engineering (3 cr)</td>
</tr>
<tr>
<td>CMGT 570 Land Development (3 cr)</td>
</tr>
<tr>
<td>CRP 522 Planning: Process and Practice (3 cr)</td>
</tr>
<tr>
<td>CRP 523 Planning and Zoning (3 cr)</td>
</tr>
<tr>
<td>CRP 586 (PUBADM 586) Selected Topics: Community and Regional Planning (1-3 cr)</td>
</tr>
<tr>
<td>DISPUT 502 Negotiation Theory and Practice (1 cr)</td>
</tr>
<tr>
<td>DISPUT 504 Facilitating Groups in Conflict (1 cr)</td>
</tr>
<tr>
<td>MHLTHSCI 560 Public Health Disaster Preparedness Planning: Risk Management (3 cr)</td>
</tr>
<tr>
<td>Other Graduate Courses—Graduate courses in a related field. All courses to be selected with student input and approved by the supervisory committee.</td>
</tr>
<tr>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>

Disclosure

The Graduate Certificate in Community and Regional Planning 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: http://graduatecollege.boisestate.edu/programs2/community-and-regional-planning/more-information-on-community-and-regional-planning/
methods to evaluate various proposals. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 522 PLANNING: PROCESS AND PRACTICE (3-0-3)(F/S). Examines the role of planners and the processes and techniques used in the planning profession. Types of economic analysis, forces in the development of cities, human capital and non-labor resources, making plans, strategic planning, involving the public and citizen participation. May be taken for CRP or PUBADM credit, but not both. PREREQ: Admitted to MCRP or CCRP program or PERM/INST.

CRP 523 PLANNING AND ZONING (3-0-3)(F/S). Examines zoning theory, concepts, techniques and procedures in the practice of zoning. An introduction to zoning; the process; the legal aspects of zoning and its financing; implementing the comprehensive plan and integrating city and regional plans; responsible growth; and the transportation/land use connection. May be taken for CRP or PUBADM credit, but not both. PREREQ: Admitted to MCRP or CCRP program or PERM/INST.

CRP 530 STATE, REGIONAL AND COMMUNITY ECONOMIC DEVELOPMENT (3-0-3)(F/S). Examination of regional, state, and local economic development theory, analysis, policy and administration. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 531 PUBLIC/PRIVATE AND MIXED ENTERPRISES PLANNING (3-0-3) (F/S). Case studies of planning and public/private and mixed enterprises; public production of private goods; privatization of public services; public/private partnerships; mixed enterprises. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 532 REAL ESTATE DEVELOPMENT (3-0-3)(F/S). Fundamentals and techniques of real estate development including the influence of public interest, private investment, public policies and the use of investment analysis methods. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 533 PUBLIC FINANCE FOR PLANNERS (3-0-3) (F/S). Examines public finance concepts for planners; budgets, local taxation options, expenditures, and debt financing. Specific topics include alternatives to the property tax; development exactions; tax-increment financing; and the possible implications of demographic changes (e.g., aging and immigration) on local budgets. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 534 DOWNTOWN REVITALIZATION (3-0-3)(F/S). Examines growth and revitalization for downtowns and commercial districts. Includes evolution of downtown areas and theoretical explanations for commercial location, approaches to maintaining activities in commercial areas in both urban and rural locations. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 540 HOUSING POLICY AND COMMUNITY DEVELOPMENT (3-0-3) (F/S). This course examines housing policy and programs at the federal, state, and local levels as well the role of community based organizations involved in housing activities. Also considers social and community development aspects of neighborhoods and metropolitan regions. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 541 COMMUNITY DESIGN AND SITE PLANNING (3-0-3)(F/S). Community design considered in concert with geological, aesthetic, environmental, and legal issues of site planning. Environmentally sensitive areas compatibility with surrounding development and zoning are considered. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 551 SUSTAINABLE DEVELOPMENT (3-0-3)(F/S). Explores the many challenges of achieving sustainable development at the local, regional and national levels. A broad range of sustainable development topics, tools, and techniques are examined. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 561 LEGAL FRAMEWORKS (3-0-3)(F/S). Introduction to public interest, state, and federal constitutional law. Examines the legal tools and, pivotal courts decisions, and landmark legislation in land use law such as Kelo v. New London as well as environmental justice cases, civil rights, and fair housing acts. PREREQ: Admitted to MCRP program or PERM/INST.

SELECTED TOPICS (1-3 Variable). To be offered as staff availability permits:

CRP 581 ENVIRONMENTAL AND NATURAL RESOURCES. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 582 LAND USE AND TRANSPORTATION. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 583 ECONOMIC DEVELOPMENT. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 584 HOUSING, SOCIAL, AND COMMUNITY DEVELOPMENT. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 585 PRACTICE OF PLANNING. PREREQ: Admitted to MCRP program or PERM/INST.

CRP 586 (PUBADM 586) COMMUNITY AND REGIONAL PLANNING. May be taken for CRP or PUBADM credit, but not both. PREREQ: Admitted to MCRP or CCRP program or PERM/INST.

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

Chair: Jeremy Ball
Library Building, Room 166, Mail Stop 1955
Phone: (208) 426-4114
Fax: (208) 334-2359
http://sspa.boisestate.edu/criminaljustice/
E-mail: lynelleperry-kolsky@boisestate.edu

Graduate Degrees Offered
- Master of Arts in Criminal Justice
- Graduate Certificate in Victim Services

Master of Arts in Criminal Justice
Graduate Program Coordinator: Lisa Growette Bostaph
Library Building, Room 166F, Mail Stop 1955
Phone: (208) 426-3886
E-mail: lisabostaph@boisestate.edu

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.

Admission Requirements
To be considered for regular status as a graduate student in the Department of Criminal Justice, students must meet general Graduate College requirements and the following department requirements:

1. An undergraduate degree in Criminal Justice or related social or behavioral science with at least a cumulative 3.0 average is required for admission to graduate study.
2. Successful completion of an undergraduate statistics course.
3. CJ 101 Introduction to Criminal Justice or its equivalent (required for all entering students).
4. Successful completion of an undergraduate theory course.
5. Applicants with less than a 3.0 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.

Application Requirements
It is recommended that the prospective student applies at least one full semester prior to expected enrollment. An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations).

In the online admission system, applicants must submit a Statement of Purpose explaining the student's reasons for seeking admission and what they hope to achieve, and three letters of recommendation from professors or instructors competent to judge the student's likelihood of success in a graduate course of study. It is recommended that the applicant also make contact with the Graduate Program Coordinator to discuss the program in detail and/or ask questions about admission.

The Department of Criminal Justice will take no action on the application unless all of the above materials have been received by the enrollment deadline for each semester. In addition, the admissions process is competitive and no admissions decisions will be made until after the enrollment deadline. Applicants who wish to enroll in Summer or Fall semester have the option to complete applications by the Priority deadline (February 15) or the final deadline (April 1). The Priority deadline is recommended for students seeking financial aid as most aid decisions are made prior to April 1st. The deadline for Spring admission is October 1st.

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. The comprehensive examination is held twice a year (October and April) and is a take-home examination over a three day period of time. 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 study 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 seek permission from the Graduate Coordinator and department faculty. 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 3.0 average is required for both continuation in and graduation from the program.
Master of Arts in Criminal Justice

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Foundation Series</strong></td>
<td></td>
</tr>
<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>
</tr>
<tr>
<td>CJ 501 Crime and Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 502 Organization and Management of Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CJ 503 Criminal Justice Research</td>
<td>3</td>
</tr>
<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><strong>Seminar Series</strong></td>
<td>9</td>
</tr>
<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>
<td></td>
</tr>
<tr>
<td>CJ 505 Seminar: Law and Social Control (3 cr)</td>
<td></td>
</tr>
<tr>
<td>CJ 507 Seminar: Issues in Contemporary Policing (3 cr)</td>
<td></td>
</tr>
<tr>
<td>CJ 508 Seminar: The Legal Process (3 cr)</td>
<td></td>
</tr>
<tr>
<td>CJ 509 Seminar: Juvenile Justice (3 cr)</td>
<td></td>
</tr>
<tr>
<td>CJ 512 Seminar: Gender and Justice (3 cr)</td>
<td></td>
</tr>
<tr>
<td>CJ 513 Seminar: Victimology (3 cr)</td>
<td></td>
</tr>
<tr>
<td>CJ 514 Seminar: Contemporary Issues in Corrections (3 cr)</td>
<td></td>
</tr>
<tr>
<td>CJ 515 Seminar: Critical Issues in Criminal Justice (3 cr)</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>Thesis or Comprehensive Examination Option</strong></td>
<td>3-6</td>
</tr>
<tr>
<td>CJ 593 Thesis (6 cr)</td>
<td></td>
</tr>
<tr>
<td>CJ 690 Master’s Comprehensive Examination (3 cr)</td>
<td></td>
</tr>
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<td><strong>Total</strong></td>
<td>33</td>
</tr>
</tbody>
</table>

**Graduate Certificate in Victim Services**

Graduate Program Coordinator: Lisa Growette Bostaph
Library Building, Room 166F, Mail Stop 1955
Phone: (208) 426-3886
E-mail: lisabostaph@boisestate.edu

**General Information**

The graduate certificate in Victim Services is offered solely through eCampus and is designed to provide a foundation in research and theory in substantive areas of victimization and victim services and focused scholarship on issues of importance to the field. All courses are required and it is recommended that they be taken sequentially. Courses are offered in 7-8 week blocks with the goal of one year for certificate completion.

**Admission Requirements**

To be considered for regular status as a graduate student in the Graduate Certificate in Victim Services, students must meet general Graduate College requirements and the following department requirements:

- An undergraduate degree with at least a cumulative 3.0 average is required for admission to graduate study.
- Applicants with less than a 3.0 cumulative GPA may still apply to the program with submission of Graduate Record Exam (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.

**Application Requirements**

Application for admission to the Victim Services graduate certificate program may be made at any time; however students can only be admitted for a Fall semester start. It is recommended that the prospective student applies at least one full semester prior to expected enrollment. An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations).

In the online admission system, applicants must submit a Statement of Purpose explaining the student’s reasons for seeking admission and what they hope to achieve, and three letters of recommendation from professors, instructors, or supervisors competent to judge the student’s likelihood of success in a graduate course of study. Students wishing to apply for the Verizon Hopeline scholarships must submit an additional two to three page statement (attached to the statement of purpose) explaining their desire to work in the area of intimate partner violence. It is recommended that the applicant also schedule an interview with the Criminal Justice Graduate Program Coordinator.

The Department of Criminal Justice will take no action on the application unless all of the above materials have been received by the enrollment deadline for each semester. In addition, the admissions process is competitive and no admissions decisions will be made until after the enrollment deadline. Applicants who wish to enroll have the option to complete applications by the Priority deadline (February 15) or the final deadline (April 1). The Priority deadline is recommended for students seeking financial aid as most aid decisions are made prior to April 1st.
Certificate Requirements

The requirements for the graduate certificate in Victim Services are explained in the degree box below. All courses are offered only once per year and the first three courses (VS 531, VS 532, VS 533) must be taken in chronological order. Each course is 7-8 weeks in length (except for VS 535 which is a 3 weeks in length) and, to complete the certificate in one year, students should plan to take 2 courses per semester.

Maintenance of a cumulative 3.0 average is required for both continuation in and graduation from the program.

### Graduate Certification in Victim Services

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
</tr>
<tr>
<td>The following core courses are required of all students. Only VS 531, VS 532, and VS 533 must be taken in chronological order.</td>
<td></td>
</tr>
<tr>
<td>VS 531 Research Methods and Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>VS 532 Administration of Justice</td>
<td>3</td>
</tr>
<tr>
<td>VS 533 Victimology and Victim Services</td>
<td>3</td>
</tr>
<tr>
<td>VS 534 Crisis Intervention and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>VS 535 Survey of Types of Victimization</td>
<td>1</td>
</tr>
<tr>
<td>VS 536 Intimate Partner Violence and Rape</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

Course Offerings

See Course Numbering and Terminology for definitions.

**CJ — Criminal Justice**

**Foundation Courses**

**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 ORGANIZATION AND MANAGEMENT OF CRIMINAL JUSTICE (3-0-3)(S).** 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 506 THEORIES OF CRIME (3-0-3)(F).** Major explanations of crime and its control. Efforts toward an integration of existing approaches are explored and consideration of the development of general theory is discussed.

**Seminar Series**

**CJ 505 SEMINAR: LAW AND SOCIAL CONTROL (3-0-3)(F/Odd years).** Focus on the nature of the 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 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/Even 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 SEMINAR: VICTIMOLOGY (3-0-3)(F)(Odd years).** 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.

VS—Victim Services

VS 531 RESEARCH METHODS AND DATA ANALYSIS (3-0-3)(F). Covers the basic methods of quantitative and qualitative research and their application to the field. Discusses the relationship among theory, research, and social policy. Instructs on the use of computerized statistical packages in the social and behavioral sciences and statistical problem-solving using various data-sources. PREREQ: ADM/PROG.

VS 532 ADMINISTRATION OF JUSTICE (3-0-3)(F). Locates the profession of criminal justice within historical, theoretical, and political perspectives. Focuses on contemporary theoretical perspectives. Defines the nature and scope of the discipline through the relationships among theory, policy, and practice. PREREQ: ADM/PROG.

VS 533 VICTIMOLOGY AND VICTIM SERVICES (3-0-3)(S). Explores theoretical perspectives on the role of victims in crime. Discusses the prevalence of various forms of victimization, the effects of crime on its victims, and the nature and scope of victim services as a discipline. Locates the evolution of victims’ rights within the context of other societal movements. PREREQ: ADM/PROG.

VS 534 CRISIS INTERVENTION AND ETHICS IN VICTIM SERVICES (3-0-3)(S). Instructs students in the foundational tools to intervene in crisis situations with victims of crime. Discusses the various existing programmatic frameworks for intervention and evidence-based research supporting their use. Provides overview of ethical considerations and professional requirements in victim services, including confidentiality, mandatory reporting, boundaries, and case management. PREREQ: ADM/PROG.

VS 535 SURVEY OF TYPES OF VICTIMIZATION (1-0-1)(SU). Focuses on current issues in victimology and victim services. PREREQ: ADM/PROG.

VS 536 INTIMATE PARTNER VIOLENCE AND RAPE (3-0-3)(SU). Explores the theoretical perspectives of violence occurring within intimate relationships and across all forms of rape. Discusses topics in terms of offending, victimization, and criminal justice/social services response. PREREQ: ADM/PROG.

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

Department of History

Chair: Joanne Klein
Library Building, Room 192, Mail Stop 1925
Phone: (208) 426-1255
http://sspa.boisestate.edu/history/
E-mail: historygradbsu@boisestate.edu

Graduate Degrees Offered

- Master of Arts in History
- Master of Applied Historical Research

General Information

The Master of Arts in History and the Master of Applied Historical Research degrees prepare students for work in the field of history. The History Masters programs are based upon a solid, committed faculty and multiple resources. With sixteen permanent and many adjunct faculty, 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 web page: http://sspa.boisestate.edu/history/). 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. Besides a faculty rich in its diversity and talents, the location of the university in the capital city of Idaho gives students access to the State Archives, Idaho State Historical Museum, the state’s Law Library, the Survey Research Center, the Frank Church Archive, and other research facilities. Boise State University’s Albertsons library has a collection of almost 550,000 bound volumes and periodicals and subscribes to more than 4,900 serials. It is also a selective US Government and Canadian document depository, as well as an Idaho State depository. The interlibrary loan system makes the holdings of other excellent collections accessible to 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.

Advising of Incoming Graduate Students

The coordinator of graduate studies in history will act as temporary advisor for all newly admitted students until an initial advisor is assigned. The student will establish a supervisory committee as soon as possible, normally during the first semester enrolled. The committee chair will serve as the student’s permanent advisor and thesis or project director. Other members of the committee will be chosen by the student and his or her advisor. The entire program leading to the degree will be planned by the student in conjunction with his or her supervisory committee.
Application and Admission Requirements

Application Procedures The history department accepts new candidates for the fall or spring semesters. To be admitted for the fall semester and be considered for departmental funding, applications must be received by January 15. To be admitted for fall without funding, the application deadline is April 1. Those seeking to start in spring semester must submit applications by September 15. An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations).

Applicants must also submit the following items using the university’s online application process: a letter of application explaining why the student wishes to be admitted and what area of research they hope to pursue, a sample of the applicant’s writing skills (e.g., seminar paper, senior thesis, or published article), and at least two letters of recommendation from persons competent to judge the applicant’s potential for graduate study in history. Students also must provide their Graduate Record Examination (GRE) scores. To be considered for a Graduate Assistantship, the GRE scores must be received by January 15. The History Department can take no action on the application until all of the above materials have been received. One year of a foreign language is required for the MA degree; a year of a foreign language or approved tool credits is required for the MAHR. Until a student completes the language/tool requirement, s/he will retain provisional status.

Admission Requirements Minimum requirements include a bachelor's degree in history, or its equivalent, from an accredited institution or a strong history background (more than 20 semester hours) within their undergraduate program. Minimum standards for admission with regular status to the history graduate program include a minimum GPA of 3.00 with 3.20 in history and 3.20 for the last two years of undergraduate study. Students not meeting these minimum requirements for admission with regular status may be granted provisional status.

Master of Arts in History

Coordinator of Graduate Studies: Jill K. Gill
Library Building, Room 180, Mail Stop 1925
Phone: (208) 426-1316
E-mail: historygradbsu@boisestate.edu

The Master of Arts in History prepares students to work as research historians or to continue in history doctoral programs. It is best suited for those seeking a career in an academic-related field. The degree culminates with the completion of a thesis, which is a written examination of a historical topic, based on primary source research, and defending a hypothesis that is original and compelling. The topic and scope of the thesis will be determined by the student in consultation with the advisory committee.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</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>Approved History Electives (21 cr)</td>
<td>21</td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Approved History Electives (12 cr)</td>
<td></td>
</tr>
<tr>
<td>Approved Electives Outside of History (9 cr)</td>
<td></td>
</tr>
<tr>
<td>HIST 593 Thesis</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

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: Jill K. Gill
Library Building, Room 180, Mail Stop 1925
Phone: (208) 426-1316
E-mail: historygradbsu@boisestate.edu

The Masters in 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 cumulative activity for the Master of Applied Historical Research. All projects, regardless of the medium, must include a substantial 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.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</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)</td>
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<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>Approved History electives (6-18 cr)</td>
<td></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>
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<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>

One year of foreign language or a technical equivalent is required for graduation; these credits do not count towards the required 33 credits for the degree.
Course Offerings

See Course Numbering and Terminology for definitions.

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 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 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.

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

Department of Psychology

**Chair:** Roberto Refinetti
Education Building, Room 629, Mail Stop 1715
Phone: (208) 426-1207
Fax: (208) 426-4386
http://sspba.boisestate.edu/psychology/
E-mail: jessicahooker@boisestate.edu

Graduate Degree Offered

- Graduate Certificate in Family Studies

General Information

The Graduate Certificate in Family Studies housed in the Department of Psychology is intended for recent graduates, students enrolled in any graduate degree program, and for working professionals. The program includes courses from psychology and other social sciences and public affairs departments in order to gain in-depth understanding of the connection between human development, family life and the broader social context. The goal of the certificate program is to prepare students for a variety of positions working with children and their families.

Application and Admission Requirements

An applicant must satisfy the minimum admission requirements of the Graduate College (see Graduate Admission Regulations). Applicants admitted to the Graduate College who wish to apply to the Graduate Certificate in Family Studies Program must possess a baccalaureate degree from an accredited institution and have demonstrated satisfactory academic competency by having achieved a cumulative undergraduate GPA of at least 3.00 on a 4.00 scale. These minimum requirements do not guarantee admission to the program. Admission recommendations will be based upon a review of the student's transcripts and resume/CV, letters of reference, and statement of purpose.

Applicants must submit the following documents to the Director of the Graduate Certificate in Family Studies Program: complete post-secondary transcripts; a resume or CV; a statement of purpose in which the student explains her/his motivation for pursuing a Graduate Certificate in Family Studies and describes her/his career interests; and three letters of reference from previous professors evaluating the applicant's academic potential. (For applicants whose academic record predates the application by five years or more, supervisors may submit the letters of reference.)

Once the applicant's file is complete, the Director of the Family Studies Graduate Certificate Program will evaluate the materials. Admission recommendations will be forwarded to the Chair of the Psychology Department. Admission to the Graduate Certificate in Family Studies Program does not guarantee subsequent admission to any other certificate or graduate degree program. If students would like to simultaneously enroll in another Graduate degree program, they may do so subject to the conditions outlined in the Regulations for Graduate Certificate Programs (under Simultaneous Enrollment in a Graduate Certificate and Degree Program) in this catalog.
Graduate Certificate in Family Studies

Director: Cynthia Campbell
Education Building, Room 625, Mail Stop 1715
Phone: (208) 426-1187
E-mail: cynthiacampbell@boisestate.edu

Certificate Requirements

A minimum of 17 credits are required for the completion of the Graduate Certificate in Family Studies. The curriculum is comprised of 11 credit hours of required course work and 6 additional credits of elective courses. Students who wish to enroll in courses other than those specified may do so by permission of Director. Course prerequisites or permission of the instructor must also be met. Students must maintain a minimum 3.0 GPA in all certification course work.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
</tr>
<tr>
<td>COMM 506 Interpersonal Communication or PSYC 595 Reading and Conference</td>
<td>3</td>
</tr>
<tr>
<td>COUN 511 Family Systems</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 512 Lifespan Human Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 514 Diversity in Family Systems</td>
<td>2</td>
</tr>
<tr>
<td>One course from the following approved elective courses: ANTH 425 Medical Anthropology: Disease, Culture, and Healing (3 cr) HIST 323 The History of Marriage and the Family in Europe (3 cr) POLS 413/SOC 487 Organizational Theory and Bureaucratic Structure (3 cr) PSYC 438G Community Psychology (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td><strong>One course from the following approved elective courses:</strong> CJ 501 Crime and Criminal Justice (3 cr) CJ 509 Seminar: Juvenile Justice (3 cr) CJ 512 Seminar: Gender and Justice (3 cr) PSYC 594 Conference or Workshop (in Family Studies) (credits vary) PSYC 597 Special Topics (in Family Studies) (credits vary) PUBADM 500 Administration in the Public Sector (3 cr) PUBADM 532 Grant Writing (3 cr) PUBADM 571 Ethics in the Public Sector (3 cr)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 17

Course Offerings

See Course Numbering and Terminology for definitions.

PSYC — Psychology

PSYC 331G THE PSYCHOLOGY OF HEALTH (3-0-3)(F/S). Principles that have emerged from the experimental analysis of behavior will be examined. The principles include, but are not limited to, operant and classical conditioning. The course will deal with applications of these principles to the understanding and change of phobias, obesity, smoking, alcoholism, aberrant sexual behavior, and similar problems. PREREQ: PSYC 101.

PSYC 405G ADVANCED STATISTICAL METHODS (3-0-3)(S). Advanced topics in univariate statistics (for example, repeated measures designs) and multivariate techniques such as discriminant analysis, factor analysis, and principal component analysis. PREREQ: PSYC 321 or equivalent or PERM/INST.

PSYC 421G PSYCHOLOGICAL MEASUREMENT (3-0-3)(F). Theory and nature of psychological measurement together with a survey of types of psychological tests currently used. PREREQ: PSYC 321.

PSYC 438G COMMUNITY PSYCHOLOGY (3-0-3)(F,S). Focuses on human and social problems in a systemic context. Primary prevention and community empowerment strategies employed 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 biology, personality, cognitions, 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, socioeconomic status. Topics include experiences of people of oppressed groups and sociohistorical roots of biases. PREREQ: Admission to Family Studies Program or PERM/INST.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Department of Public Policy and Administration

Chair: Greg Hill
Environmental Research Building, Room 1145, Mail Stop 1935
Phone: (208) 426-1476
Fax: (208) 426-4370
http://sspa.boisestate.edu/publicpolicy/

Graduate Degrees Offered
- Doctor of Philosophy in Public Policy and Administration
- Master of Public Administration
- Graduate Certificate in Conflict Management

Doctor of Philosophy in Public Policy and Administration

Doctoral Program Coordinator: Greg Hill
Environmental Research Building, Room 1145, Mail Stop 1935
Phone: (208) 426-1476
E-mail: greghill@boisestate.edu
http://sspa.boisestate.edu/phd-ppa/

General Information

Boise State University offers a Doctor of Philosophy in Public Policy and Administration through the Department of Public Policy and Administration (DPPA). The degree requires the completion of a prescribed course of study in DPPA, 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.

Graduate Teaching and Research Fellowships

Graduate fellowships including tuition and fee waivers are funded from three sources: appropriated state funds, endowments, and research grants and contracts. Applicants to the Ph.D. in Public Policy and Administration who submit all documents required by the admission procedure by February 1 of any given year will be considered for a state appropriated or endowed graduate fellowship to start the following fall semester; notification of successful applicants will be during February and March. Information on graduate fellowships funded by research grants and contracts is available from the coordinator of the doctoral program in DPPA.

Graduate Program Committee

The DPPA Graduate Program Committee consists of the coordinators for each of the graduate programs in DPPA. University and DPPA guidelines establish the parameters of this committee whose duties include development of recommendations for admission of prospective graduate students, decisions on transfer credits and required background courses, decisions on the award of departmental graduate fellowships and assistantships, and the appointment or restructuring of the Supervisory Committee for the doctoral student. The Graduate Program Committee serves as an appeal mechanism for decisions made by each student’s Supervisory Committee. The DPPA chair offers an appeal mechanism for any decisions and recommendations of the Graduate Program Committee.

Supervisory Committee

A doctoral student’s initial advisor in DPPA is the doctoral program coordinator. The doctoral program coordinator will work with the doctoral student to identify a Supervisory Committee Chair with expertise in the student’s emphasis area during the first year of the program. The Chair of the Supervisory Committee serves as the student’s principal advisor. By the third semester of the student’s doctoral program and in consultation with the Supervisory Committee Chair, the doctoral student will identify at least two, but not more than three additional graduate faculty members. These faculty members along with the Supervisory Committee Chair form the Supervisory Committee. Within University and DPPA guidelines, this Supervisory Committee provides general guidance in the design and approval of the program of study, administration of the comprehensive examination, participation in the assessment of the dissertation proposal, supervision of the dissertation research and participation in the dissertation defense. This committee has a minimum of three, but not more than five members, the majority of whom must hold a faculty appointment within DPPA and be members of the Graduate Faculty.

Application and Admission Requirements

Admission Requirements

Applicants must satisfy the minimum admission requirements for the Boise State Graduate College. Admission is competitive and the achievement of minimum Graduate College and DPPA requirements does not guarantee admission into the program. Applicants are required to have a Bachelor’s or Master’s degree from an accredited institution and must comply with the following application procedures after receipt of the DPPA Doctoral Application packet available from the DPPA doctoral program coordinator.

Application Procedures

Applicants must submit all application materials to the University by February 1 to be considered for acceptance in the cohort for the following fall term. The Admission decisions are made each year in February, but applications are accepted at any time per Graduate College guidelines. Consideration of admission applications to the DPPA program requires acceptance to the Boise State Graduate College (please see graduate admission regulations in this catalog) AND submission of official transcripts from all previous academic institutions to the Graduate Admissions Office. Admission to the doctoral program is competitive and is based upon a review of completed applications.

During the application process for the online Graduate College system, applicants will be prompted to provide:

1. official transcripts submitted from all previous academic institutions,
2. names and contact information submitted for three references (references will then be asked to upload reference letters evaluating the applicant’s academic potential),
3. scores on the general test of the Graduate Record Examination (GRE),
4. 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, and
5. a sample of analytical writing.

At a minimum, students must demonstrate satisfactory academic competency by attaining an overall GPA of at least 3.0 in previous
college-level course work and a minimum combined score of 1,000 on the GRE verbal and quantitative sections for GRE tests scored before August 2010 and 300 for GRE tests scored since the conversion. The GRE requirement can be waived for students who have earned a master's degree from an accredited program. Students whose native language is not English must submit a TOEFL score of 587 or higher for the written exam and 240 or higher for the computer-based examination. All test scores must be submitted directly to Boise State University. Once the applicant’s file is complete and during the admission decision period for the doctoral program, the DPPA Graduate Program Committee or an admission subcommittee designated by the Graduate Program Committee will evaluate the file. An admission recommendation will be forwarded by DPPA to the Dean of the Graduate College. The graduate dean will make the final admission decision and notify the applicant and the DPPA Graduate Program Committee.

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), 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 18 credits of core requirements and a 12 credit methods sequence. In addition, doctoral students will complete 9 credits within an emphasis, 6 additional 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><strong>Public Policy and Administration Core</strong></td>
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<tr>
<td>PUBADM 501 Public Policy Process</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 504 Public Budgeting and Financial Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 601 Philosophy of Social Inquiry</td>
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<tr>
<td>PUBADM 602 Philosophical and Practical Foundations of Democratic Governance</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 603 Administration and the Study of Public Policy</td>
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<tr>
<td>PUBADM 604 Advanced Techniques in Policy Research</td>
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<td><strong>Methods Sequence Students must take PUBADM 533 Research Design and Measurement (1 cr)</strong></td>
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<tr>
<td>AND students must select an additional nine credits from:</td>
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<tr>
<td>GEOG 560 Introduction to Geographic Information Systems (3 cr)</td>
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<tr>
<td>PUBADM 506 Qualitative Analysis and Methodology (3 cr)</td>
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<td>PUBADM 507 Intermediate Quantitative Analysis and Methodology (3 cr)</td>
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<tr>
<td>PUBADM 508 Advanced Survey Research (3 cr)</td>
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<td>PUBADM 509 Public Policy Analysis (3 cr)</td>
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<td>PUBADM 510 Program Evaluation (3 cr)</td>
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<td>AND select an additional two credits from:</td>
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<td>PUBADM 534 Descriptive Statistics (1 cr)</td>
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<td>PUBADM 535 Inferential Statistics (1 cr)</td>
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<td>PUBADM 536 Introduction to Survey Research (1 cr)</td>
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<tr>
<td>PUBADM 537 Advanced Statistical Techniques (1 cr)</td>
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<td><strong>Areas of Emphasis (Select one area 9 credit hours)</strong></td>
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<td>Environmental Policy and Administration</td>
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<td>PUBADM 605 Seminar in Environmental Policy and Administration (3 cr)</td>
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<tr>
<td>And 6 credits from</td>
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<td>PUBADM 540 Contemporary Issues in Natural Resource and Environmental Policy and Administration (3 cr)</td>
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<td>PUBADM 541 Environmental Regulatory Policy and Administration (3 cr)</td>
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<td>PUBADM 542 Science, Democracy and the Environment (3 cr)</td>
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<tr>
<td>PUBADM 543 Public Land Resource Policy and Administration (3 cr)</td>
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<td>PUBADM 544 Energy in the Western U.S. (3 cr)</td>
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<tr>
<td>PUBADM 545 Energy Policy (3 cr)</td>
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<tr>
<td><strong>State and Local Government Policy and Administration</strong></td>
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<td>PUBADM 606 Seminar in State and Local Government Policy and Administration (3 cr)</td>
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<tr>
<td>And 6 credits from</td>
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<tr>
<td>CRP 501 Introduction to Community and Regional Planning (3 cr)</td>
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<td>DISPUT 501 Human Factors in Conflict Management (1 cr)</td>
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<td>DISPUT 502 Negotiation Theory and Practice (1 cr)</td>
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<td>DISPUT 503 Conflict Intervention Method (1 cr)</td>
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<tr>
<td>PUBADM 512 Information Technology and Public Policy (3 cr)</td>
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<td>PUBADM 513 Economics and Public Policy (3 cr)</td>
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<tr>
<td>PUBADM 514 Introduction to Nonprofit Management and Collaboration (3 cr)</td>
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<tr>
<td>PUBADM 515 Policy Implementation and Practice (3 cr)</td>
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<tr>
<td>PUBADM 516 City-County Governance and Administration (3 cr)</td>
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<tr>
<td>PUBADM 530 Administrative Law and Regulation (3 cr)</td>
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<tr>
<td>PUBADM 550 The Executive and the Administrative Process (3 cr)</td>
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<tr>
<td><strong>Electives (with supervisory committee approval)</strong></td>
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<tr>
<td>PUBADM 691 Doctoral Comprehensive Examination (Pass/Fail)</td>
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<tr>
<td>PUBADM 689 Dissertation Proposal (Pass/Fail)</td>
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<tr>
<td>PUBADM 693 Dissertation (Pass/Fail)</td>
<td>18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>
Emphases and Credit Requirements

Two emphasis areas are available to Doctor of Philosophy students in Public Policy and Administration: 1) Environmental Policy and Administration and 2) State and Local Government Policy and Administration. Doctoral students must select one of two available emphasis areas at the beginning of their program. The Supervisory Committee chair will be a faculty member with primary research or teaching responsibility related to the student’s emphasis. Students will take 9 credits within their emphasis area that will be comprised of the designated emphasis seminar plus 6 additional credits selected in consultation with the Supervisory Committee. Through consultation with the Supervisory Committee, students are encouraged to consider graduate elective courses from other disciplines in the many graduate programs in the University. A list of recommended graduate courses by discipline is available from the doctoral program coordinator. The following coursework is prohibited for use in meeting the Ph.D. credit requirements: 590, 594, 598, pass/fail coursework and undergraduate credit.

Doctoral Examinations and Dissertation Requirements

Beyond superior effort in coursework, students seeking the distinction of Doctor of Philosophy in Public Policy and Administration must successfully complete three tiers of assessment, a Ph.D. comprehensive examination, an oral presentation of the student’s dissertation proposal, and the public presentation and defense of the dissertation.

Comprehensive Examination  
Doctoral students are eligible to sit for their comprehensive examination after the public policy and administration core (18 credits), the methods sequence (12 credits) and the designated doctoral seminar for the selected emphasis (3 credits). This means that students may take their comprehensive examination after completing 33 credits toward the doctorate, but must complete the exam prior to completing 48 credits exclusive of PUBADM 693. The examination includes a written portion and an oral defense. The two-part examination is graded pass (P) or fail (F).

Dissertation Proposal  
The dissertation entails original research conducted by the student at the doctoral level in a manner that meets rigorous peer-reviewed standards. The dissertation proposal should be prepared and presented within a year of the student’s successful comprehensive examination, but before substantive advanced coursework or research in the student’s dissertation area commences. After the student submits a formal dissertation proposal to the Supervisory Committee, then upon review and approval of that proposal, the Supervisory Committee authorizes the student to schedule a formal oral presentation.

Dissertation Requirements  
This dissertation should demonstrate the student’s mastery of best practices in research for public policy and administration and should reflect original research that advances policy and/or public administration scholarship. Students should work with the doctoral coordinator and their supervisory committee to ensure adequate progress.

Defense and Final Oral Examination  
After the Supervisory Committee has approved the dissertation as a final version, the student will work with his or her Supervisory Committee to schedule the final oral examination in which the student will defend the dissertation.

Final Approval of the Dissertation  
The Defense Committee must report either pass (P) or fail (F). Graduate College protocol for failed examinations applies. If the dissertation is approved in final form including a successful public defense, all PUBADM 693 grades are changed from IP (In-Progress) to P (Pass) (see Dissertation Grading in Regulations for Doctor of Philosophy Programs).

Graduate College Requirements  
The general requirements of the Boise State Graduate College also govern the Doctor of Philosophy in Public Policy and Administration (see Regulations for Doctor of Philosophy Programs).

Master of Public Administration

Director of Graduate Studies: Elizabeth Fredericksen
Environmental Research Building, Room 1149, Mail Stop 1935
Phone: (208) 426-1476
E-mail: mpa@boisestate.edu

General Information

The Department of Public Policy and Administration offers the master’s degree in public administration (MPA), an important academic nucleus of the University’s designated area of emphasis in public affairs. As the urban university in Idaho located in the capital city, Boise State has the mandate to provide educational opportunities related to public affairs. The Department offers this degree to help fulfill that mandate. It is the only MPA accredited by the National Association of Schools of Public Affairs and Administration (NASPAA) in Idaho and one of only seven 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 and Admission Requirements

Students interested in the MPA program must first submit a graduate application to Graduate Admission and Degree Services. If approved, the applicant receives a certificate of admission to enroll in courses at Boise State. This certificate of admission is a prerequisite to admission into the MPA program, but does not by itself guarantee admission into the MPA program. (The student is advised to consult the Graduate Admission Policies section of this
catalog for more detail on admission to the Graduate College.) To receive financial aid, students must be officially accepted into the MPA program with regular or provisional status. Admittance to the Graduate College only is not sufficient to receive financial aid.

Admission to the MPA program begins with application to the Graduate College. A student interested in the MPA are encouraged to meet with the MPA program director to discuss the admission process, his/her career interests, and reasons for seeking admission to the MPA program. Applicants should possess a baccalaureate degree from an accredited institution and demonstrate satisfactory academic competency by attaining an overall undergraduate GPA of at least 3.0 and a minimum combined score of 300 on the Graduate Record Examination (GRE) verbal and quantitative sections (the minimum combined score is 1000 under earlier GRE scoring systems). The GRE requirement may be waived for students who have earned a master’s degree from an accredited program or who have a final, aggregate undergraduate GPA of 3.2 or better.

During the application process for the online Graduate College system, applicants will be prompted to:

1. Submit official transcripts from all previous academic institutions.
2. Submit names and contact information for three references. These references will then be asked to upload reference letters evaluating the applicant’s academic potential.
3. Upload a formal statement of at least 500 words explaining the applicant’s educational and career objectives.
4. Upload a recent resume.

Applicants who, by admission deadline, meet the preceding requirements will have their complete applications submitted for committee review. Meeting these requirements does not guarantee admission to the MPA program.

Applicants who do not meet all of the above requirements, but have a completed application, may be recommended by the MPA Admissions Committee for admission with provisional graduate status. However, these students must satisfy all of the conditions of their provisional status before they will be recommended for regular graduate status. Application files are due February 1 for Fall and Summer admission and October 1 for Spring admission.

Students may not take more than 9 credits of PUBADM coursework (3 of which can be PUBADM 500) prior to official acceptance into the MPA program.

During the semester following acceptance into the MPA program, students should 1) meet with their advisor; 2) complete their Program Development form; and 3) enroll in PUBADM 500 if they have not already completed this course.

Students accepted into the MPA program who have earned a Certified Public Managers Certificate (CPM) from the State of Idaho may petition to the Director of Graduate Studies, DPPA to have the number of credits needed to receive an MPA Degree reduced from 39 to 36, with the reduction coming from the 18 required elective credits.

Students are allowed only 3 credits of pass/fail and 3 credits of workshop to count toward their MPA degree.

All students not officially accepted to the MPA program must get permission numbers from instructors to enroll in PUBADM classes.

**MPA Internship** All students are required to complete a six credit internship for a total of 45 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 resume. Instructions to petition for internship waiver or to obtain an internship are available on the department website.

**Degree Requirements**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td><strong>Master of Public Administration</strong></td>
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<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 Organizational Theory</td>
<td>3</td>
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<tr>
<td>PUBADM 504 Public Budgeting and Financial Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 505 Public Personnel Administration</td>
<td>3</td>
</tr>
<tr>
<td>PUBADM 692 Capstone Course</td>
<td>3</td>
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<tr>
<td>PUBADM 533 Descriptive Statistics (1 cr)</td>
<td>1</td>
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<tr>
<td>PUBADM 534 Inferential Statistics (1 cr)</td>
<td>2</td>
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<tr>
<td>PUBADM 536 Introduction to Survey Research (1 cr)</td>
<td></td>
</tr>
<tr>
<td>PUBADM 537 Advanced Statistical Techniques (1 cr)</td>
<td></td>
</tr>
</tbody>
</table>

continue
Area of Emphasis Requirements

An area of emphasis is a concentration or major in the program. Each MPA student is to complete 12 semester credit hours in one of the following three areas of emphasis. Selected Topics courses will be offered to supplement area of emphasis requirements.

1. General Public Administration
   This area of emphasis is provided to accommodate those students desiring preparation in public administration as a “generalist” rather than a “specialist” in a particular area. Students should select the 12 credit hours of course work from the non-core MPA courses listed in this catalog.

2. Environmental, Natural Resource, and Energy Policy and Administration:
   Students in this area of emphasis should select twelve credits from the following courses:
   - PUBADM 540 Contemporary Issues in Natural Resource and Environmental Policy and Administration (3 cr)
   - PUBADM 541 Environmental and Regulatory Policy and Administration (3 cr)
   - PUBADM 542 Science, Democracy and the Environment (3 cr)
   - PUBADM 543 Public Land and Resource Policy and Administration (3 cr)
   - PUBADM 544 Energy Policy in the Western U.S. (3 cr)
   - PUBADM 545 U.S. Energy Policy (3 cr)
   - PUBADM 546 Climate Change Policy and Administration (3 cr)

3. State and Local Government Policy and Administration:
   All students in this area of emphasis must take PUBADM 560 State and Local Government Policy and Administration (3 cr)
   And
   Students must select nine credits from approved Selected or Special Topics or from the following courses:
   - PUBADM 516 City-County Governance and Administration (3 cr)
   - PUBADM 540 Contemporary Issues in Natural Resource and Environmental Policy and Administration (3 cr)
   - PUBADM 541 Environmental and Regulatory Policy and Administration (3 cr)
   - PUBADM 550 The Executive and the Administrative Process (3 cr)
   - CRP 501 Introduction to Community and Regional Planning (3 cr)

Electives

Students must complete 6 elective semester credit hours in addition to their area of emphasis and core requirements. These credits may be taken as course work or as a Directed Research (PUBADM 696) which relates to their area of emphasis.

Total

39

Public Service Internship

Those MPA students without at least one year of administrative experience in a public sector or other public affairs agency are to complete a public service internship. The internship is served in a government office at the local, state or national level or in an appropriate public affairs organization, such as a private, nonprofit agency. The credits received for the internship are in addition to the 39 semester credit hours from the core area and area of emphasis. The internship component comprises six (6) semester credit hours. The internship is meant to be a meaningful experience for both the MPA student and the organization in which the internship is served. Through the internship, students can further enhance their preparation for administrative work. At the same time, they are expected to make a valuable contribution to their assigned organizations. The internship is usually served when the student is near completion of the MPA program. Students who believe they are eligible for a waiver of the internship requirement should contact the graduate director.

Graduate Certificate in Conflict Management

Graduate Program Director: Suzanne McCorkle
Environmental Research Building, Room 5139, Mail Stop 1935
Phone: (208) 426-3928
Fax: (208) 426-4370
E-mail: smccork@boisestate.edu

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.

Application and Admission Requirements

1. Admission to the Graduate College
   A. Send Graduate Admission Application and applicable fee to Graduate Admission and Degree Services.
   B. Request official transcripts from each institution previously attended be sent directly to Graduate Admission and Degree Services.

2. Contact the Director of the Boise State University Office of Conflict Management Services for an advising and admissions interview. All applicants will be notified of the admission decision by regular mail.
   Suzanne McCorkle, Ph.D.
   Director, Office of Conflict Management Services
   Boise State University
   Boise, Idaho 83725-1935
   (208) 426-3928
   smccork@boisestate.edu

3. Admission to and successful completion of the Conflict Management certificate program does not guarantee admission to any other graduate program.

continued
Certificate Requirements

Graduate Certificate in Conflict Management

Competency Option**

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<td>*DISPUT 500 Basic Mediation Skills</td>
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<td>DISPUT 501 Human Factors in Conflict Management</td>
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<td>DISPUT 502 Negotiation Theory and Practice</td>
<td>1</td>
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<tr>
<td>DISPUT 504 Facilitating Groups in Conflict</td>
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<tr>
<td>DISPUT 505 Culture and Conflict</td>
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</tr>
<tr>
<td>DISPUT 590 Internship</td>
<td>2</td>
</tr>
<tr>
<td>DISPUT 546 Competency Exam</td>
<td>1</td>
</tr>
</tbody>
</table>

Electives

DISPUT 594, 597, or other approved electives 2

Total 12

*Candidates who have already completed DISPUT 400 or other equivalent undergraduate basic mediation courses will waive DISPUT 500 and then take three additional graduate credits of approved elective coursework.

**Current Idaho Mediation Association Certified Practicing Mediators may waive the internship and competency exam and substitute three additional graduate credits of approved elective coursework.

Course Offerings

See Course Numbering and Terminology for definitions.

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/mediation 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). 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 MEDIATION COMPETENCY BOARD (0-0-1)(F/S). Competency-based testing is required by several mediation professional organizations. Students conduct case work and mediate a case from within their emphasis area before a panel of expert mediators. Students discuss issues related to mediation within their specialty area. (Pass/Fail). PREREQ: PERM/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,S). Designed to introduce students to the broad field of public administration at the graduate level. The course surveys a number of important issues in contemporary public administration, including an emphasis on political, legal, economic and social institutions and processes.

PUBADM 501 PUBLIC POLICY PROCESS (3-0-3)(F/S). Process of policy-making both within an agency and within the total governmental process, emphasizing policy and program planning, policy implementation and the value system of administrators. PRE/Coreq: PUBADM 500 or PERM/PROG DIR.

PUBADM 502 ORGANIZATIONAL THEORY (3-0-3)(F/S). Theories of organization behavior and management, with special attention given to public sector organizations. Issues and problems related to the non-profit sector will also be addressed. PRE/Coreq: PUBADM 500 or PERM/PROG DIR.

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 PUBLIC PERSONNEL ADMINISTRATION (3-0-3)(F/S). An examination of the personnel/human resource management role as it has evolved in the public sector. The multiple responsibilities of personnel managers in the public sector will be examined, and the link between public

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: http://graduatecollege.boisestate.edu/programs/conflict-management/more-information-on-the-graduate-certificate/
policy and personnel management will be identified. 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. PRE/REQ: 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. PRE/REQ: 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 533 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. PRE/REQ: 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 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 INFERENTIAL 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/REQ: 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). Scientific basis for global warming concerns and addresses policies to curb greenhouse gas emissions. Experience from greenhouse gas markets and regulations are highlighted.

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 intern兄弟, sector, 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 (CRP 586) COMMUNITY AND REGIONAL PLANNING. May be taken for CRP or PUBADM credit, but not both.
- 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 Doctor of Philosophy in Public Policy and Administration program or PERM/INST.

PUBADM 602 PHILOSOPHICAL AND PRACTICAL FOUNDATIONS OF DEMOCRATIC GOVERNANCE (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 Doctor of Philosophy in Public Policy and Administration program or PERM/INST.

PUBADM 603 ADMINISTRATION AND THE STUDY OF PUBLIC POLICY (3-0-3)(F/S). Combines an overview of the field of public administration with an introduction to the range of research foci pertinent to the study of public policy and its administration. A practical orientation for the beginning researcher includes development and refinement of technical oral and written communication skills through the preparation of research critiques, research proposals including dissertation prospectus, and proposals for research funding. PREREQ: Admission to the Doctor of Philosophy in Public Policy and Administration program or PERM/INST.

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 Doctor of Philosophy in Public Policy and Administration program 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 Doctor of Philosophy 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 Doctor of Philosophy in Public Policy and Administration program or PERM/INST.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
INTERDISCIPLINARY PROGRAMS
Interdisciplinary Programs

General Information
Interdisciplinary graduate programs cross boundaries and involve faculty members from more than one discipline.

Interdisciplinary Programs Offered
- Doctor of Philosophy in Biomolecular Sciences
- Master of Science in Hydrologic Sciences
- Master of Arts in Interdisciplinary Studies
- 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 Addiction Studies
- Graduate Certificate in College Teaching
- Graduate Certificate in Gerontological Studies

Doctor of Philosophy in Biomolecular Sciences
Program Director: Denise Wingett
Program Administrator: Beth Gee
Science Building, Room 105A, Mail Stop 1512
Phone: (208) 426-2844
Fax: (208) 392-1430
E-mail: biomolecularphd@boisestate.edu

Participating Departments
- Biological Sciences
- Chemistry and Biochemistry
- Physics

General Information
The interdisciplinary program leading to the degree of Doctor of Philosophy (Ph.D.) 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 and Admission Requirements
An applicant must follow the general application procedures; see Graduate Admission Regulations for a description of the general application procedures and minimum admission requirements of the Graduate College. Additional application procedures and admission requirements associated with this program are described below.

Application Procedures
The applicant must complete the general application procedures of the Graduate College and must submit the following additional applications materials:
1) Three letters of recommendation from academic or professional references,
2) A brief personal statement (no more than 1000 words) describing the applicant's academic and professional background, career goals, and faculty members that you are most interested in working with,
3) A scientific writing sample, and
4) A resume listing educational training, awards, publications, poster presentations, grants, etc.

Official scores for the GRE General Test are submitted by the Educational Testing Service to the university upon request by the applicant. Evaluation of completed applications will begin on January 2nd for fall admission of the next academic year. Applicants desiring spring admission should contact the program director for instructions.

Minimum Admission Requirements
An applicant must satisfy the minimum admission requirements of the Graduate College. In addition, an applicant must hold a baccalaureate or graduate degree in an appropriate scientific discipline, and should have undergraduate course work that includes cell biology, biochemistry, calculus, and general physics. The program director can provide more detailed guidance to interested students on academic preparation. Admission is competitive and achievement of minimum admission requirements does not guarantee admission to the program.

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>
<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 598 Graduate Seminar</td>
<td>4</td>
</tr>
<tr>
<td>BMOL 605 Current Scientific Literature</td>
<td>2</td>
</tr>
<tr>
<td>BMOL 606 Proposal Writing</td>
<td>2</td>
</tr>
<tr>
<td>BMOL 607 Graduate Research Presentation</td>
<td>1</td>
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<tr>
<td>BMOL 611 (BIOL 611) Advanced Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BMOL 616 Responsible Conduct in Research</td>
<td>1</td>
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<tr>
<td>PHYS 611 Molecular Biophysics or PHYS 612 Cell Biophysics and Imaging</td>
<td>4</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.

Approved Electives 11

continued
Preliminary and Comprehensive Examinations
The student must pass a preliminary examination and a comprehensive examination. The preliminary examination is a written examination that measures achievement by the student of an acceptable breadth and depth of knowledge in the biomolecular sciences. The comprehensive examination is a defense of a research proposal on a topic that is distinct from the anticipated dissertation research, and may be taken only after successful completion of the preliminary examination.

Dissertation
The dissertation must be the result of independent and original research by the student, and must constitute a significant contribution to current knowledge in the biomolecular sciences, equivalent to multiple peer-reviewed publications. The dissertation is defended at the final oral examination which is conducted according to the procedures of the Graduate College.

Course Offerings
See Course Numbering and Terminology for definitions.

BMOL — Biomolecular Sciences
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 301 or equivalent.

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 301; 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: BMOL 601.

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 spectrometry; X-ray, electron, and neutron diffraction; spectroscopy (optical, IR, UV, Raman); magnetic resonance (NMR, EPR, MRI); plasmon resonance; birefringence; electrophoresis; and hydrodynamic techniques. PREREQ: 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. May be repeated for credit. PREREQ: Graduate student status.

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: BMOL 601.


BMOL 611 (BIOL 611) 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 301 or PERM/INST.

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. PREREQ: BIOL 343 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.

BMOL 616 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. Utilizes 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.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Interdisciplinary Programs
Master of Science in Hydrologic Sciences

Master of Science in Hydrologic Sciences
College of Arts and Sciences
Department of Geosciences
Graduate Program Coordinator: Lejo Flores
Environmental Research Building, Room 4151, Mail Stop 1535
Phone: (208) 426-2903
Fax: (208) 426-4061
E-mail: lejoflores@boisestate.edu
http://earth.boisestate.edu

Department of Biological Sciences
Contact: Kevin Feris
Science Building, Room 226, Mail Stop 1515
Phone: (208) 426-5498
Fax: (208) 426-1040
E-mail: kevinferis@boisestate.edu
http://biology.boisestate.edu/

College of Engineering
Department of Civil Engineering
Contact: Arvin Farid
Environmental Research Building, Room 3137, Mail Stop 2075
Phone: (208) 426-4827
Fax: (208) 426-4800
E-mail: arvinfarid@boisestate.edu
http://coen.boisestate.edu

General Information
The program leading to the degree of Master of Science (M.S.) 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 both the Department of Geosciences and the Department of Civil Engineering provides enriched delivery of courses and enhanced student guidance.

Graduate Teaching and Research Fellowships
Graduate fellowships including tuition and fee waivers are funded from three sources: appropriated state funds, endowments, and research grants and contracts. Applicants to the M.S. 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.

Student Guidance
The graduate program coordinator will assign a temporary faculty advisor to each student prior to the first semester of enrollment. By the end of the first semester, the advisor, in consultation with the student, will initiate the appointment of a three-person supervisory committee that will assume responsibility for student guidance.

Application and Admission Requirements
An applicant must follow the general application procedures for admission to a graduate program (see Graduate Admission Regulations). Applicants are required to have a baccalaureate degree in a science or engineering discipline from an accredited college or university, and undergraduate courses equivalent to one year each of calculus, chemistry, and calculus-based physics. An applicant must also provide GRE General Test scores, three letters of recommendation from academic faculty, a letter of intent outlining goals for graduate study, and a course summary form; detailed instructions may be obtained on the Internet at http://earth.boisestate.edu/GraduatePrograms/index.htm, or from the graduate program coordinator. Once the file for an applicant is complete, it will be evaluated and an admission recommendation (regular, provisional, or denial) will be forwarded to the graduate dean. The graduate dean will make the final admission decision and notify the applicant. Admission is competitive and is not guaranteed to any applicant.

Degree Requirements

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 500 Research Methods (1 cr) or GEOS 601 Graduate Orientation (2 cr)</td>
<td>1-2</td>
</tr>
<tr>
<td>GEOS 598 Graduate Seminar or Supervisory Committee approved seminar in CE or BIOL</td>
<td>1</td>
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</tbody>
</table>

Enrollment in Graduate Seminar is required each semester for students with advisors in the Department of Geosciences; one credit may be applied towards graduation.

Hydrologic Sciences Core
- GEOPH 522 Data Analysis and Geostatistics or BIOL 601 Biometry: 3
- GEOS 512/CE 512 Hydrology: 3
- GEOS 516 Hydrology: 3
- GEOS 518 Applied Hydrologic Modeling: 3
- GEOS 526/CE 526 Aqueous Geochemistry: 3
- GEOS 652 Methods in Hydrologic Science: 3

Electives Approved by the Supervisory Committee (at least 3 credits must be at 600 level): 6

Culminating Activity
- BIOL 593 Thesis or CE 593 Thesis or GEOS 593 Thesis: 6

Total: 32-33
GEOS 523 ADVANCED GEOMORPHOLOGY (3-0-3)(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 autecolic controls on geomorphic processes. Field trips and a field-based research project required. 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 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.

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 feedback. Explore in detail scenarios of global warming for the next century and their reliability. 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 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 GE 412 or GE 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 not for more than one department. PREREQ: CE 623 or GEOPH 623 or GEOS 623 or PERM/INST.

GEOS 630 (CE 630) VADOSE ZONE HYDROLOGY (3-0-3)(S). 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)(S). Comprehensive overview of theory, methods, and applications of stable isotope geochemistry to a wide range of earth science problems. PREREQ: PERM/INST.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Interdisciplinary Programs
Master of Arts or Science in Interdisciplinary Studies

Master of Arts in Interdisciplinary Studies

Master of Science in Interdisciplinary Studies

Director: Daryl Jones
College of Arts and Sciences
Education Building, Room 601, Mail Stop 1500
Phone: (208) 426-1414
Fax: (208) 426-3006
E-mail: ids@boisestate.edu

General Information

Boise State University offers a Master of Arts/Master of Science degree program in Interdisciplinary Studies. In consultation with faculty, students may combine courses from more than one college or more than one department to create an individualized program of educational experience. The program is designed for mature students who wish to continue education at the graduate level but do not seek specialized training in a major area. The program is not a substitute for the traditional master’s degree; rather, it is intended for students with broader interests in several fields or those whose career goals do not match fully with a single, identifiable academic unit or department. Emphasis is placed on continued intellectual and cultural development in a constantly changing society where new intellectual and career interests may extend over several traditional specializations.

The Interdisciplinary Studies (IDS) Program is administered by the Graduate College, housed in the College of Arts and Sciences, and directly supervised by the Director of Interdisciplinary Studies. A university-wide Interdisciplinary Studies Committee consists of the Graduate Dean and one member from each academic College appointed by the respective Deans. The Director of Interdisciplinary Studies serves as the chair of that committee and oversees the program. Each student in the program also has a graduate committee composed of three faculty members from the disciplines making up the student’s interdisciplinary program. The student’s graduate committee has the responsibility of helping the student select a particular program of study and recommends to the Interdisciplinary Studies Committee that it be accepted as the student’s formal plan of study, thereby indicating that the members of the committee regard it as a viable program of graduate study. The Interdisciplinary Studies Committee is responsible for approving the members of the proposed graduate committee and for deciding whether to approve the student’s plan of study.

Application and Admission Requirements

A prospective student must first satisfy general admission requirements and complete the process for admission to the Graduate College, as described in the Graduate Admission Policies and Procedures section of the Boise State University Graduate Catalog. General admission to the Graduate College does not guarantee admission to a graduate program in Interdisciplinary Studies. For admission to the MA or MS Program in Interdisciplinary Studies, a student must meet the following requirements:

1. A cumulative GPA in all prior college level work of at least 3.0 (although students who fall below this requirement but who have a cumulative GPA of at least 3.25 for the most recent 60 credit hours will also be considered).

2. Successful completion of the IDS Program’s application process, which includes:
   a. meeting with the IDS Program Director to discuss expectations and be advised as to the remainder of the application process,
   b. selection of a graduate committee composed of 3 graduate faculty members, one of whom is to serve as committee chair,
   c. meeting with graduate committee to discuss and prepare a degree plan,
   d. submission of a completed Personal Data form,
   e. submission of a completed form stating committee has met and approved that degree plan,
   f. submission of a degree plan and three-page written statement of justification which:
      • states intellectual, professional, or vocational reasons for requesting entry into the program;
      • explains why traditional degree programs do not meet the applicant’s needs; and
      • justifies the selection of courses in relation to the conception of the individualized program as a whole.
   g. submission of two letters of recommendation,
   h. approval of the graduate committee and degree plan by the university-wide IDS Committee.

Although each applicant’s prior academic record will be examined to determine whether there are compelling reasons for making an exception, normally the Interdisciplinary Studies Committee will not consider proposed degree plans from students who fail to meet requirement 1). Applicants who wish to submit additional supporting materials such as GRE scores, letters of recommendation, or a preliminary description of their proposed program of study may do so. Letters of recommendation and preliminary program descriptions should be sent directly to the Director of the IDS Program.

Applications to the IDS Program are considered only twice a year, in October and in March. Application materials as described above must be submitted by October 1 for processing during the fall semester or by March 1 for processing during the spring semester.
Applicants are strongly encouraged to submit completed IDS application materials by March 1st or October 1st of the semester prior to the semester of proposed entry into the program, so as to avoid commencing course work which may not be accepted as part of an approved degree plan. The student's graduate committee and degree plan must be approved before the completion of more than 6 credits toward the program.

Degree Requirements

<table>
<thead>
<tr>
<th>Master of Arts or Master of Science</th>
<th>Interdisciplinary Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>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:</td>
<td></td>
</tr>
<tr>
<td>1. Course work must be selected from a minimum of two academic areas.</td>
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<tr>
<td>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.</td>
<td></td>
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<tr>
<td>3. No more than 11 credits of 300G or 400G courses may be applied toward the program.</td>
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</tr>
<tr>
<td>4. No more than 9 transfer credits may be included in the program.</td>
<td></td>
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<tr>
<td>5. No more than 9 credits of independent study (596) may be included in the program.</td>
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<tr>
<td>6. Courses may not be challenged for credit.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td>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.</td>
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</tr>
<tr>
<td>11. All work toward the MA/MS degree in Interdisciplinary Studies must be completed within a period of seven years.</td>
<td></td>
</tr>
</tbody>
</table>

Course Offerings

See Course Numbering and Terminology for definitions.

INTDIS — Interdisciplinary Studies

INTDIS 591 PROJECT (0-V-6). Students are expected to draw critically upon the two or more disciplines studies 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.

Materials Science and Engineering Graduate Programs

Graduate Program Coordinator: Bill Knowlton
Micron Engineering Center, Room 202M, Mail Stop 2090
Phone: (208) 426-5600
E-mail: msegrad@boisestate.edu

Director for Academic and Technical Advancement: Chad Watson
Engineering Building, Room 338, Mail Stop 2090

Participating Departments

- Biological Sciences
- Chemistry and Biochemistry
- Engineering
- Physics

General Information

There are three distinct interdisciplinary graduate degrees: Doctor of Philosophy (Ph.D.), Master of Science (M.S.) and Master of Engineering (M.Engr.). The Doctor of Philosophy in Materials Science and Engineering degree provides a platform for students to advance their scientific knowledge, to make significant technical contributions to their broad field of materials science and engineering, and to promote their career opportunities within academia or industry/governmental research and development facilities. The program leading to the Master of Science in Materials Science and Engineering is a thesis-based program designed for students wanting to enhance fundamental knowledge of materials science and to strengthen their research and technical communication skills in preparation for further study at the doctoral level or to promote future career opportunities. The program leading to the Master of Engineering in Materials Science and Engineering is a non-thesis program with a focus on strengthening a student's fundamental knowledge within materials science. All programs are interdisciplinary and involve faculty members from the College of Engineering and the College of Arts and Sciences with expertise in materials science and engineering, electrical and computer engineering, mechanical and biomedical engineering, physics, chemistry, and biology.

Admission and Application Requirements

Applicants to a interdisciplinary MSE graduate program will be required to have a B.S. or M.S. degree in a materials science and engineering-related field (materials, metallurgy, ceramics, polymer engineering), other engineering fields (mechanical, electrical, chemical, industrial, civil, aerospace, biological, environmental, computer and nuclear), the physical sciences (physics, earth science and chemistry), the life sciences or mathematics from an accredited college or university.

Students whose native language is not English must also pass the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System test (IELTS) with a minimum score as dictated by the College of Engineering. Currently, the minimum TOEFL score is 587 (paper-based test) or 95 (Internet-based test), or an IELTS score of 6.5. Scores must not be older than two years at the time of application.

Admission is highly competitive and is based on meeting the requirements set forth by the Graduate College, the applicant's transcripts, letters of recommendation, GRE scores, statement
of purpose and resume. A competitive applicant will have a clear
and articulate statement of purpose that describes the applicant’s
educational and professional background, research interests,
motivation, aptitudes, professional interests, and career goals and
very strong letters of recommendation from faculty members and
supervisors.

Doctor of Philosophy in Materials Science
and Engineering

Degree Requirements

A minimum of 68 credits are required for the Ph.D. program. These
courses must be taken for a letter grade (A–F), except MSE 601
Graduate Student Orientation, MSE 691 Doctoral Comprehensive
Examination, and MSE 693 Dissertation. MSE 601 and 691 will be
graded pass (P) or fail (F), and MSE 693 Dissertation will initially
be graded in-progress (IP) and later graded P or F depending on
the outcome of the dissertation defense. MSE 601 must 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, if not earlier. Once all core courses are successively
completed (i.e., each course with a B or better), the comprehensive
exam 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. The
comprehensive exam contains both a written and oral component
and is developed and administered by the Comprehensive
Examination Committee, comprised of three faculty members from
the MSE graduate faculty who are appointed to the committee by the
Chair of the MSE Department.

Students are expected to attend the MSE Seminar every semester.
The MSE Seminar provides graduate students with a venue to
become knowledgeable in contemporary issues in materials science
and engineering. Graduate Seminar may not be applied to meet the
elective requirement.

<table>
<thead>
<tr>
<th>Doctor of Philosophy in Materials Science and Engineering</th>
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</thead>
<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
</tr>
<tr>
<td><strong>Required Core Courses</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>Required Core Emphasis Course</strong></td>
</tr>
<tr>
<td>Choose at least one course from the following:</td>
</tr>
<tr>
<td>MSE 510 Electrical, Optical, and Dielectric Materials</td>
</tr>
<tr>
<td>MSE 512 Mechanical Behavior of Materials I</td>
</tr>
<tr>
<td>PHYS 515 Solid State Physics</td>
</tr>
<tr>
<td><strong>Required Characterization Course</strong></td>
</tr>
</tbody>
</table>
| Choose at least 3 credits from the following (or alternative
  characterization course(s) approved by the Graduate Program
  Coordinator (GPC):                                     |             |
| CHEM 522 Spectroscopy                                   |             |
| CHEM 540 Spectrometric Identification                   |             |
| CHEM 560 Introduction to NMR Spectroscopy               |             |
| MSE 521 Introduction to Electron Microscopy              |             |
| MSE 522 Advanced Transmission Electron Microscopy       |             |
| MSE 525 Surface Analysis                                |             |
| PHYS 523 Physical Methods of Materials Characterization |             |
| **Required Processing Course**                          | 3           |
| Choose at least 3 credits from the following (or alternative
  processing course(s) approved by the Graduate Program
  Coordinator (GPC):                                     |             |
| ECE 540 Intro to Integrated Circuit Processing          |             |
| ECE 540L Intro to Integrated Circuit Processing Lab     |             |
| ECE 541 Advanced Topics in Silicon Technology           |             |
| ECE 542 Photolithography                                |             |
| ECE 543 Introduction to MEMS                            |             |
| MSE 540 Advanced Processing                             |             |
| MSE 542 Ceramic Processing                              |             |
| MSE 545 Nanoscale Processing                            |             |
| **Other Graduate Courses**                              | 15          |
| Additional elective courses in Materials Science and Engineering or related fields as approved by the supervisory committee and by the coordinator of the Materials Science and Engineering Doctoral program. | |
| MSE 601 Graduate Student Orientation                    | 1           |
| MSE 691 Doctoral Comprehensive Examination              | 1           |
| MSE 693 Dissertation                                    | 30          |
| **Total**                                               | 68          |
Master of Engineering in Materials Science and Engineering

Degree Requirements

Students must complete at least 30 graduate credits distributed as shown in the degree requirements table. A maximum of 3 credits of MSE 696 Directed Research may be applied to meet the degree requirements. The culminating activity for the M. Engr. degree is the Comprehensive Examination (MSE 690). The comprehensive exam is to be taken once all core courses have been completed and during the final semester of the program.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MSE 605 Crystallography and Crystal Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>MSE 608 Solid State Thermodynamics</td>
<td>4</td>
</tr>
<tr>
<td>MSE 618 Phase Transformations and Kinetics</td>
<td>4</td>
</tr>
<tr>
<td>Required Core Emphasis Course</td>
<td>3</td>
</tr>
<tr>
<td>MSE 510 Electrical, Optical, and Dielectric Materials (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>MSE 512 Mechanical Behavior of Materials (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>*PHYS 515 Solid State Physics (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>Required Characterization Course</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 522 Spectroscopy (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 540 Spectroscopic Identification (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 560 Introduction to NMR Spectroscopy (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>MSE 521 Introduction to Electron Microscopy (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>MSE 525 Surface Analysis (3 cr)</td>
<td>3</td>
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<tr>
<td>*PHYS 523 Physical Methods of Materials Characterization (3 cr)</td>
<td>3</td>
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<tr>
<td>Required Processing Course</td>
<td>3</td>
</tr>
<tr>
<td>MSE 540 Advanced Processing (3 cr)</td>
<td>3</td>
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<tr>
<td>MSE 542 Ceramic Processing (3 cr)</td>
<td>3</td>
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<tr>
<td>MSE 545 Nanoscale Processing (3 cr)</td>
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</tr>
<tr>
<td>Other Graduate Courses</td>
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</tr>
<tr>
<td>Comprehensive Examination</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>30</td>
</tr>
</tbody>
</table>

*Recommended Course

Master of Science in Materials Science and Engineering

Degree Requirements

Students must complete at least 30 graduate credits distributed as shown in the degree requirements table. 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 must include a discussion of the relevant literature and demonstrate the ability of the student to independently and successfully address a significant intellectual problem with concepts and methods that are accepted in the major field of study. The thesis must constitute an original contribution to knowledge in materials science and engineering and must be successfully defended at a final oral examination. All work directly related to the thesis must be represented by at least 9 credits of MSE 593, PHYS 593, or CHEM 593.

<table>
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<th>Course Number and Title</th>
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<td>MSE 605 Crystallography and Crystal Chemistry</td>
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<tr>
<td>MSE 608 Solid State Thermodynamics</td>
<td>4</td>
</tr>
<tr>
<td>MSE 618 Phase Transformations and Kinetics</td>
<td>4</td>
</tr>
<tr>
<td>Required Core Emphasis Course</td>
<td>3</td>
</tr>
<tr>
<td>MSE 510 Electrical, Optical, and Dielectric Materials (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>MSE 512 Mechanical Behavior of Materials (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>*PHYS 515 Solid State Physics (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>Required Characterization Course</td>
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</tr>
<tr>
<td>CHEM 522 Spectroscopy (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 540 Spectroscopic Identification (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 560 Introduction to NMR Spectroscopy (3 cr)</td>
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<td>MSE 521 Introduction to Electron Microscopy (3 cr)</td>
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<tr>
<td>MSE 525 Surface Analysis (3 cr)</td>
<td>3</td>
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<tr>
<td>*PHYS 523 Physical Methods of Materials Characterization (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>Required Processing Course</td>
<td>3</td>
</tr>
<tr>
<td>MSE 540 Advanced Processing (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>MSE 542 Ceramic Processing (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>MSE 545 Nanoscale Processing (3 cr)</td>
<td>3</td>
</tr>
<tr>
<td>Thesis</td>
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<tr>
<td>CHEM 593 Thesis or MSE 593 Thesis or PHYS 593 Thesis</td>
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</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 (M.S. MSE or M.Engr. MSE) with the approval of the supervisory committee.
Course Offerings

See Course Numbering and Terminology for definitions.

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 I (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 (3-0-3) (F/S). Introduction to the phenomenon of magnetism. Basic magnetic properties of solid matter. Unit systems in magnetism. Magnetic anisotropy, magnetic domains, magnetic hysteresis, permeability, coercivity, and magnetostriiction. Examples of magnetic materials.

MSE 519 INTERFACIAL KINETICS AND TRANSPORT PROCESSES (3-0-3) (S) (Even years). 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 (2-2-3) (F/S). Theory and practice of scanning electron microscopy and transmission electron microscopy, including electron optics, contrast mechanisms, diffraction theory, chemical analysis techniques, and sample preparation.

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, STM, SIMS, AES, 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 542 CERAMIC PROCESSING (3-0-3) (F/S). Science and engineering of fabricating ceramic materials primarily from powders. Fundamental principles of colloid chemistry, thermodynamics of curved surfaces, and sintering kinetics models, and processing techniques.

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 561 MICROELECTRONIC PACKAGING MATERIALS (3-0-3) (F/S). Engineering analysis of electronic packaging materials and their effect on electrical design, assembly, reliability, and thermal management. Selection process for packaging materials, manufacturing and assembly, single and multi-chip packaging.

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 565 APPLICATIONS OF MATHEMATICA (1-0-1) (F/S). The basics of using Mathematica software to solve problems in materials science and engineering.

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 relationships in crystalline and amorphous ceramic materials at the atomic and microscopic levels.

MSE 577 (BIOL 577)/ME 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: ENGR 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.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Graduate Certificate in Addiction Studies

College of Health Education
Department of Counselor Education
Contact: Raisa Miller
Education Building, Room 643, Mail Stop 1721
Phone: (208) 426-1219
E-mail: counselor.education@boisestate.edu

College of Health Sciences
Master of Health Science Program
Contact: Susan Esp
Health Science Riverside, Room 103, Mail Stop 1835
Phone: (208) 426-3970
E-mail: susan.esp@boisestate.edu
http://hs.boisestate.edu/MHS

General Information

The Graduate Certificate in Addiction Studies is an interdisciplinary program offered by the Department of Counselor Education (College of Education), and the Master of Health Science Program (College of Health Sciences). The postgraduate certificate is designed for professionals employed in substance abuse education, prevention or intervention settings or licensed professionals seeking additional training in the treatment of substance use disorders. The goal of the certificate program is to prepare students for a variety of positions in the addictions field and to provide specialty training in addiction for licensed professionals. The graduate certificate meets the didactic experiences required to become a nationally credentialed Master Addictions Counselor (MAC if holding a Master's in Counseling), and an Idaho Certified Alcohol and Drug Counselor (CADC, if holding a baccalaureate degree in Psychology, Sociology, Health Sciences, or other health related degree) or Advanced Certificate Alcohol and Drug Counselor (ACADC, if holding a related graduate degree).

Admission and Application Requirements

Admission Requirements  Applicants are required to have a baccalaureate degree from an accredited institution, to have completed COUN 545/MHLTHSCI 545 Foundations of Chemical Dependency or its equivalent, and must have achieved a cumulative undergraduate GPA of at least 3.00 on a 4.00 scale. However, these minimum requirements do not guarantee admission to the program.

Note: Admission recommendations will be based upon a review of the student’s transcripts and resume, letters of reference, Statement of Purpose, and interview.

Application Procedures  An applicant should follow the general application procedures for graduate degree-seeking students (see Applying as a Degree-Seeking Student in the Graduate Admission Policies and Procedures section of this catalog). In addition, an applicant must submit the following documents to the Graduate Certificate Program Advisor in either the College of Health Sciences or College of Education:

1. a resume;
2. a statement of purpose in which the student explains his/her motivation for pursuing a Graduate Certificate in Addiction Studies and describes his/her career interests; and
3. three letters of reference from previous professors evaluating the applicant’s academic potential. (For applicants whose academic record predates the application by five years or more, supervisors may submit the letters of reference. For applicants who applied for a graduate program within 3 years, those references can be used.)

Once the applicant’s file is complete, the Addiction Studies Graduate Certificate Committee will evaluate, interview, and an admission recommendation (regular, provisional, or denial) will be forwarded to the Program Directors (Chairs) of the Counselor Education and Master of Health Science Program. In the case of a recommendation for provisional admission, the Committee will also establish the stipulations that must be satisfied by the student to advance to regular status. Admission to the Certificate in Addiction Studies does not guarantee subsequent admission to any other certificate or graduate degree programs.

Certificate Requirements

A minimum of 18 credits is required for completion of the Graduate Certificate in Addiction Studies.

Prerequisite for the certificate program is COUN 545/MHLTHSCI 545 Foundations of Chemical Dependency (Offered every Fall semester, evening class once per week).

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COUN 544/MHLTHSCI 544 Addiction and the Family System</td>
<td>3</td>
</tr>
<tr>
<td>COUN 544/MHLTHSCI 564 Screening and Assessment of Alcohol and Drug Problems</td>
<td>3</td>
</tr>
<tr>
<td>COUN 546/MHLTHSCI 565 Assessment and Case Management of Alcohol and Drug Problems</td>
<td>3</td>
</tr>
<tr>
<td>A minimum of 9 credits from the following:</td>
<td>9</td>
</tr>
<tr>
<td>COUN 543/MHLTHSCI 543 Assessing and Managing Adolescent Substance Abuse and Mental Health Risks (2 cr)</td>
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<tr>
<td>COUN 547/MHLTHSCI 547 Chemical Addictions and Violence Prevention (2 cr)</td>
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<tr>
<td>COUN 548 Addiction and Behavioral Health Assessment and Intervention (3 cr)</td>
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<tr>
<td>COUN 550/MHLTHSCI 568 Diagnosis, Assessment and Treatment Planning (2 cr)</td>
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<tr>
<td>COUN 567/MHLTHSCI 567 Clinical Supervision Principles and Practice (1 cr)</td>
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<tr>
<td>HLTHST 469 Ethics for Addiction Professionals or COUN 508 Special Needs, Ethics, and Legal Issues in Counseling (2 cr - 3 cr)</td>
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</table>

Total  18

- Course prerequisites or permission of the instructor must also be met.
- Students who wish to enroll in courses other than those specified may do so by permission of the Addiction Studies Graduate Certificate Committee.
- Students must maintain a minimum 3.0 GPA in all certification course work.
- Students seeking Alcohol/Drug Counselor certification are strongly advised to take HLTHST 469 and MHLTHSCI 548 if not pursuing the Masters of Counseling Program.

Disclosure

The Graduate Certificate in Addiction Studies 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: http://graduatecollege.boisestate.edu/programs2/addiction-studies/more-information-on-addiction-studies/
Interdisciplinary Programs
Graduate Certificate in Addiction Studies

Course Offerings

See Course Numbering and Terminology for definitions.

COUN — Counseling

COUN 541 (MLHTHSCI 544) ADDICTION AND THE FAMILY SYSTEM (3-0-3) (F,S). Examination of multigenerational impact of addiction (drugs, alcohol, work, religion, Internet, gambling etc.) on the family system. In addition to dysfunctional roles developed to cope with addiction, class also compares and contrasts communication strategies and parenting styles of unhealthy and healthy family systems. Risk and protective factors, stages of change, and continuum of care from prevention, intervention, treatment and aftercare are addressed. May be taken for COUN or MLHTHSCI credit, but not both. PREREQ: HLTHST 109 or COUN/MLHTHSCI 545 or PERM/INST.

COUN 543 (MLHTHSCI 543) ASSESSING AND MANAGING ADOLESCENT SUBSTANCE ABUSE AND MENTAL HEALTH RISKS (2-0-2)(S/SU)(Odd years). Introduction to comprehensive adolescent risk assessment and treatment planning. Examination of current and available comprehensive adolescent assessments, current and available specialized assessments, report writing approaches and effective treatment processes. May be taken for COUN or MLHTHSCI credit, but not both. PREREQ: HLTHST 109 or COUN/MLHTHSCI 545 or PERM/INST.

COUN 544 (MLHTHSCI 564) SCREENING AND ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS (3-0-3)(F). Emphasis on screening and assessment tool—procedures for substance abuse. Application of current interventions and screening processes. Legal, social, ethical, and health implications will be investigated. May be taken for COUN or MLHTHSCI credit, but not both. PREREQ: HLTHST 109 or COUN/MLHTHSCI 545 or PERM/INST.

COUN 546 (MLHTHSCI 565) ASSESSMENT AND CASE MANAGEMENT OF ALCOHOL AND DRUG PROBLEMS (3-0-3)(S). Emphasis on case management techniques including legal, social, ethical, and health implications. May be taken for COUN or MLHTHSCI credit, but not both. PREREQ: MLHTHSCI 564 or COUN 544 or PERM/INST.

COUN 547 (MLHTHSCI 547) CHEMICAL ADDICTIONS AND VIOLENCE PREVENTION (2-0-2)(SU). Introduction to professional, ethical, legal, and practical aspects of chemical additions 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. May be taken for COUN or MLHTHSCI credit, but not both. PREREQ: MLHTHSCI 564 or COUN 544 or PERM/INST.

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: Graduate standing.

COUN 550 (MLHTHSCI 568) DIAGNOSES, ASSESSMENT, AND TREATMENT PLANNING (2-0-2)(F). Examination of concepts of “mental disorders,” DSM classification systems, and the diagnostic benefits and diagnostic problems inherent in such systems. An introduction and overview of the major psychopathological syndromes of adolescents and adults (especially in the area of Co-morbidity of Substance Abuse/Dependence and other DSM IV diagnoses) to facilitate appropriate use of assessment–diagnostic–treatment links (including treatment planning). May be taken for COUN or MLHTHSCI credit, but not both. PREREQ: PERM/INST.

COUN 567 (MLHTHSCI 567) CLINICAL SUPERVISION PRINCIPLES AND PRACTICE (1-0-1)(S/SU)(Odd years). Theory and skill development for practitioners who are or will be supervising interns and/or professionals in school, agency, and other settings. Topics include ethical issues in clinical supervision, models and best practices, documentation, and troubleshooting problematic dynamics. May be taken for COUN or MLHTHSCI credit, but not both. PREREQ: PERM/INST.

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

Graduate Certificate in College Teaching

Program Coordinator: James Goodman
Interactive Learning Center, Room 315, Mail Stop 1005
Phone: (208) 426-3704
E-mail: jamesgoodman1@boisestate.edu

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 graduate students who are considering employment in higher education. Through the required coursework, students will demonstrate skill in course design; demonstrate the ability to effectively teach a course including planning lessons/lectures and assessing student learning; and engage in ongoing faculty development through teaching workshops.

Application Procedures

An applicant must follow the general application procedures for admission to a graduate program (see Graduate Admission Regulations). The applicant must also submit the following items:

1. Program application form;
2. Two letters of recommendation;
3. A personal teaching statement describing your interest in the program, any teaching experience you have had, and your professional goals. Include in the letter how you believe the program would benefit you in your future teaching
4. A proposal regarding the possible course(s) you would like to teach as part of GCOLL 512 (co-teaching a course) or GCOLL 513 (full course responsibility). Also include names of any mentors who might serve as the mentor teacher for this course.

Additional details regarding application materials are available at http://ctl.boisestate.edu/programs/GradCert.asp. Applications should be submitted by October 1 of each year to the Center for Teaching and Learning using the form on the program web site. For additional information, contact the program coordinator.
Certificate Requirements

The requirements for the Graduate Certificate in College Teaching include the mentored teaching or co-teaching of a 3-credit course (minimum) in the student’s home department or a closely related discipline. Prior to admission, students will have a tentative plan in place for the course to be taught. 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., hired as a teaching assistant or adjunct).

The capstone course (GCOLL 515) 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 six (6) professional development workshops offered through the CTL (or the equivalent elsewhere, e.g., disciplinary conferences with sessions on pedagogy in the discipline, etc.).

<table>
<thead>
<tr>
<th>Graduate Certificate in College Teaching</th>
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<tbody>
<tr>
<td><strong>Course Number and Title</strong></td>
</tr>
<tr>
<td>GCOLL 511 Teaching in Higher Education</td>
</tr>
<tr>
<td>GCOLL 512 Internship in College Teaching (3 cr) or GCOLL 513 Practicum in College Teaching (4 cr)</td>
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<tr>
<td>GCOLL 515 College Teaching Portfolio</td>
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<td><strong>Total</strong></td>
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</tbody>
</table>

Course Offerings

See Course Numbering and Terminology for definitions.

**GCOLL—Graduate College**

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 Graduate Certificate 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 mentor 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 515 COLLEGE TEACHING PORTFOLIO (1-2-2)[F, S]. Development of a professional teaching portfolio, teaching philosophy, and reflection on professional development experiences. Prior to enrollment, students must have completed the Graduate TA Orientation and at least 6 faculty development workshops, such as those offered through the Center for Teaching and Learning, which have been approved by the program coordinator. PREREQ: GCOLL 512 or GCOLL 513.

Refer to the University-wide Graduate Courses section in this catalog for additional course offerings.
Interdisciplinary Programs
Graduate Certificate in Gerontological Studies

Graduate Certificate in Gerontological Studies
Graduate Program Coordinator: Sarah E. Toevs
Health Science Riverside Building, Room 106, Mail Stop 1835
Phone: (208) 426-2452
E-mail: stoevs@boisestate.edu
http://hs.boisestate.edu/MHS

General Information
The Graduate Certificate in Gerontological Studies is an interdisciplinary program offered by the College of Health Sciences, Master of Health Science Program (MHS). The certificate program is administered by the Graduate Coordinator from the MHS program in conjunction with the Center for Study of Aging.

The postgraduate certificate is intended for students enrolled in any graduate degree program and for local professionals. The goal of the certificate program is to enable students to choose a unified, coherent group of courses in gerontological studies and related fields that improve their understanding of issues related to aging. The program curriculum is in compliance with the Core Principles and Outcomes of the Association for Gerontology in Higher Education.

Admission Requirements
The minimum requirements of admission to the certificate program are a baccalaureate degree from a regionally accredited college or university and admission to the Graduate College. In addition, admission will be based upon a review of the student’s transcripts, resume and letter of interest summarizing his or her background and motivation for enrolling in the certificate program.

Admission to the Graduate Certificate in Gerontological Studies does not guarantee subsequent admission to any other certificate or graduate degree programs.

Application Procedures
An applicant should follow the general application procedures of the Graduate College for admission into a graduate program. The applicant must also submit a letter of interest and resume to the MASC, MHS or MSW Graduate Coordinator. Once the applicant’s file is complete, it will be reviewed by the Gerontological Studies Admissions Committee members who will provide an admission recommendation to the Dean of the Graduate College. The Dean will make the final admission decision and notify the applicant.

Certificate Requirements
Students who wish to enroll in courses other than those specified may do so by permission of Coordinator. Course prerequisites or permission of the instructor must also be met.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Required Core Courses</td>
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<tr>
<td>COUN 571 (MHLTHSCI 571)(SOCWRK 571) Fundamentals of Healthy Aging</td>
<td>3</td>
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<tr>
<td>MHLTHSCI 576 Health Policymaking and Issues in Aging</td>
<td>3</td>
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<tr>
<td>COUN 590 (MHLTHSCI 590)(SOCWRK 590) Practicum</td>
<td>3</td>
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<tr>
<td>BIOL 300 Biology of Aging (3 cr)</td>
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<td>COUN 517 Family Issues in Later Life (3 cr)</td>
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<td>COUN 518 Counseling Issues with Older Adults (3 cr)</td>
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<tr>
<td>COUN 551 Psychopharmacology (1 cr)</td>
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<tr>
<td>HLTHST 410 Health and Aging (3 cr)</td>
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<td>KINES 430 Physical Activity and Aging (3 cr)</td>
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<tr>
<td>MHLTHSCI 555 Program Evaluation (3 cr)</td>
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<tr>
<td>MHLTHSCI 574 Health Promotion and Optimal Aging (3 cr)</td>
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<tr>
<td>SOCWRK 433 Aging: Social Policy and Programs (3 cr)</td>
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<td>Total</td>
<td>18-19</td>
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</table>

Disclosure
The Graduate Certificate in Gerontological Studies 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: http://graduatecollege.boisestate.edu/programs2/gerontology/more-information-on-gerontological-studies/.
**Additional Graduate Courses**

**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.

**CMGT — Construction Management**

**CMGT 417G PROJECT SCHEDULING (2-2-3)(F/S).** The use of Gantt charts, S-curves, Critical Path Method (CPM) using both Arrow Diagraming and Precedence Diagramming Methods (ADM and PDM), computerized scheduling, P.E.R.T. charts, resource leveling and time cost trade offs used as planning, scheduling, and management techniques. PREREQ: CMGT 374 or PERM/INST.

**CMGT 570 LAND DEVELOPMENT (3-0-3)(F/S).** An overview of the land development process, including planning, design, construction, and sale of various types of real estate. Key concepts in successful development, feasibility studies, site selection and improvement, government policy and regulation, project planning and master planning, design of public infrastructure, and construction of site improvements.

**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 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.

**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.

**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.
Division of Extended Studies

Dean: Mark Wheeler  
Associate Dean: Peter Risse  
220 E. Parkcenter Boulevard, Mail Stop 1120  
Phone: (208) 426-1709  
Fax: (208) 426-3467  
E-mail: ESTellUs@boisestate.edu  
http://extendedstudies.boisestate.edu

General Information

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.

eCampus Programs

Boise State University offers the following graduate degree and certificate programs online. For more information, go to http://ecampus.boisestate.edu.

The College of Business and Economics offers a Master of Business Administration (MBA) degree that can be completed entirely online in as little as twelve months. Designed for the early to mid-career professional who values a high-quality program of study, Boise State's online MBA program offers the depth of knowledge required for success in an increasingly complex global work environment. Program details can be found in the College of Business and Economics section of this catalog. For more information see cobe.boisestate.edu/onlinemba/.

The Department of Criminal Justice offers a graduate certificate in Victim Services that can be completed entirely online. This certificate program is designed to provide a foundation in research and theory in substantive areas of victimization and victim services and focused scholarship on issues of importance to the field. For more information see http://sspa.boisestate.edu/criminaljustice/victim-services/.

The Department of Educational Technology in the College of Education offers a Doctorate of Education (Ed.D.) degree and three graduate certificates. Each of these programs can be completed entirely online.

The Master of Educational Technology is for students who have a desire to extend their theoretical understanding of the field through creating a research-based project or by conducting an empirical study (3 credit hours).

For or educators who need specialized training but do not want a complete master's degree, the department also offers three graduate certificates in Online Teaching, School Technology Coordination, and Technology Integration Specialist. All of the online courses are limited to 23 students. This allows faculty to work directly with students as they complete real world projects. Graduates typically are employed as teachers, instructional designers or in some kind of technology coordination position in schools, community colleges, and universities. Program details can be found in the College of Education section of this catalog. For more information, call (208) 426-1966, visit http://edtech.boisestate.edu, or e-mail: edtech@boisestate.edu.

The Department of Special Education and Early Childhood Studies in the College of Education offers one graduate certificate that can be completed entirely online.

The Department of Organizational Performance and Workplace Learning (OPWL) in the College of Engineering offers an M.S. degree and three graduate certificates. Each of these programs can be completed entirely online.

The Master of Science in Organizational Performance and Workplace Learning (OPWL) degree is intended to prepare students for careers in performance improvement, instructional design, training and training management, e-learning in business and industry, human resources, organizational development and human performance consulting. The M.S. degree is a 36-credit program.

The graduate certificates are intended for individuals who want to increase their skills in a specific area of study. The Workplace E-Learning and Performance Support (WELPS) graduate certificate emphasizes the competencies required to design, develop, and manage workplace e-learning and performance support systems. The Workplace Instructional Design (WIDe) graduate certificate emphasizes the knowledge and skills required to create instructional programs designed to improve employee productivity. The Workplace Performance Improvement (WPI) graduate certificate emphasizes the practical application of process models, tools, and techniques to improve workplace performance. Program details can be found in the College of Engineering section of this catalog. For more information call (208) 426-2489, e-mail jfenner@boisestate.edu, or visit http://opwl.boisestate.edu/.

The School of Nursing in the College of Health Sciences offers a Doctor of Nursing Practice and two Master's degree options.

The Doctor of Nursing Practice prepares health care leaders to assume leadership roles in a variety of settings including, but not limited to, acute care, ambulatory care, community-based care, health care systems and organizations. Program details can be found in the College of Health Sciences section of this catalog. For more information visit http://hs.boisestate.edu/nursing/
The Master of Science in Nursing degree (thesis), and the Master of Nursing degree (professional project) both prepare students for advanced professional nursing roles and scholarly work focusing on nursing populations. A professional fee is charged to students each semester. Program details can be found in the College of Health Sciences section of this catalog. For more information, call (208) 426-4143 or http://hs.boisestate.edu/nursing/, or nursing@boisestate.edu.

The Adult Gerontology Nurse Practitioner (AGNP) program prepares advanced practice nurses who specialize in the care and treatment of individuals from adolescence to death, excluding the care of pregnant women. For masters-prepared students looking to advance their education there are two specialized AGNP graduate certificates available in Acute Care and Primary Care. Program details can be found in the College of Health Sciences section of this catalog. For more information visit http://hs.boisestate.edu/nursing/agnp/.

Site-based Programs
Boise State University offers the following graduate degree and certificate programs, primarily at sites away from the Boise main campus. For more information, call (208) 426-1709.

Master of Education in Bilingual Education or English as a Second Language This program is designed for teachers who work with or are preparing to work with English language learners. Classes meet in Nampa, in a condensed format, Friday evening and all day Saturday. Each 3-credit class meets on three weekends. The program is designed to be completed in two years, including summer. For more information, call (208) 426-4077 or go to https://education.boisestate.edu/bilingual/graduate-program/.

Master of Arts in Education, Literacy This program for educators is offered on the weekend in a condensed format, Friday evening and Saturday, for the convenience of working professionals. Each 3-credit class meets three times during the semester in Boise or in Nampa. The program is designed to be completed in two years, including summer. For more information, call (208) 426-3962 or go to https://education.boisestate.edu/literacy/master-of-arts/.

Master of Social Work—Advanced Standing This program is designed for students who have earned a Bachelor of Social Work degree. Cohorts meet in Lewiston, Coeur d'Alene and Twin Falls, evenings and weekends to fit the needs of working professionals. For more information, call (208) 426-1568 or go to http://sspa.boisestate.edu/socialwork/academic-programs/graduate-program/.

Master of Social Work—Full Program This program is designed for students with a bachelor’s degree in a field other than social work. Cohorts meet in Lewiston, Coeur d'Alene and Twin Falls, evenings and weekends to fit the needs of working professionals. For more information, call (208) 426-1568 or go to http://sspa.boisestate.edu/socialwork/academic-programs/graduate-program/.

Graduate Certificate in Conflict Management This Treasure Valley program assists working professionals and students in understanding and responding to interpersonal conflict, including third party facilitation and mediation, as well as understanding conflict in larger groups and developing the skills for facilitating high conflict settings. For more information, call (208) 426-3928 or go to http://sspa.boisestate.edu/conflictmanagement/.

Graduate Certificate in Mathematics Consulting Teacher Endorsement This certificate is intended for individuals who want to develop the professional skills and knowledge to successfully work with teachers and students in developing mathematical understanding and prepares students for the Mathematics Consulting Teacher Endorsement. The coursework consists of 21 credits, 19 of which can serve as part of the 33 credits required for a master’s in curriculum and instruction. For more information call (208) 426-4650.

Boise State University Writing Project The Boise State Writing Project (BSWP), a member of the National Writing Project network, began on the Boise State campus in the summer of 2005. The network consists of over 250 international sites and includes an international corps of teachers and teacher leaders. The BSWP is working to bring high-quality professional development programs to the teachers in Southern Idaho. For more information, call (208) 426-1199 or go to http://bswproject.com/.

Boise State Regional Sites
The Division of Extended Studies provides administrative support for graduate programs at locations away from the Boise main campus. Advising and registration assistance are available at most sites. Customer service for Boise State textbook sales and library services is available via the web. The regional sites are:

Coeur d'Alene
Boise State MSW Program
Lewis-Clark State College, Coeur d'Alene
1031 Academic Way, Coeur d'Alene, ID 83814
(208) 292-2679

Gwen Field
Undergraduate programs
Harvard Street, Building #521, Gowen Field, Boise, ID 83705
(208) 272-3758 or (208) 426-1709

Lewiston
Boise State MSW Program
Lewis-Clark State College, Social Work Department
500 8th Ave., Lewiston, ID 83501
(208) 792-2783

Boise State Center at College of Western Idaho (CWI)
Undergraduate programs
M.Ed. in Bilingual/ESL Education
M.A. in Education, Literacy
Nampa Campus Aspen Classroom Bldg.
6002 Birch Ln.
Nampa, ID 83687
(208) 562-3423

Mountain Home Air Force Base
Undergraduate programs
Base Education Center
665 Falcon St., Mountain Home AFB, ID 83648
(208) 828-6746 or (208) 426-1709
Division of Extended Studies

Twin Falls
Undergraduate programs
Boise State MSW Program
Hepworth Building, Room 144D
College of Southern Idaho Campus
P.O. Box 1238, Twin Falls, ID 83303
(208) 933-2305

For more information about these sites, courses, or the programs offered call the site coordinator or visit http://extendedstudies.boisestate.edu/regionalsites/.

Other Programs

Test Preparation
Assisting students to prepare for graduate admission exams is the focus of short courses on the Graduate Record Examination (GRE) and the Graduate Management Admission Test (GMAT) offered by the Division of Extended Studies’ Center for Professional Development. For more information, call (208) 426-1709.

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, the Professional Education program enables teachers, and professional employees of school districts to earn credit required for re-certification and salary increases. The graduate credits earned through the Professional Education program are offered at a reduced rate and cannot be used to satisfy degree requirements. For more information, call (208) 426-3713.

Summer Sessions
Academic programs, courses, and services are offered during the summer, including graduate, undergraduate, and noncredit courses in 3-week, 5-week, 7-week, 10-week, and 14-week sessions. A variety of workshops is also offered each summer. The Boise State University Summer Schedule of Classes is available to students each spring at http://my.boisestate.edu/. For more information, call (208) 426-1709 or visit http://summer.boisestate.edu.

Boise State AfterWork
Boise State AfterWork provides a variety of unique and flexible degree completion options at multiple locations that meet the diverse educational, professional, and personal needs of Boise State’s adult and non-traditional students. Classes are offered in the evening, on weekends, and online throughout the year—including summer. For more information about Boise State AfterWork visit http://extendedstudies.boisestate.edu/afterwork/ or contact the Advisor at afterwork@boisestate.edu or (208) 426-3703.

Center for Professional Development
The Center for Professional Development brings Boise State University’s expertise to your business or organization. We provide training solutions to improve employee performance in managerial or professional arenas. Our consulting services assist clients in organization development and problem solving.

The Boise State Center for Professional Development offers on-campus, on-site, and online training programs for business, engineering, public administration and health care professionals. Our programs are designed for professionals who are seeking knowledge and skills to address their work challenges. For more information, call (208) 426-1709 or go to http://cpd.boisestate.edu.

Continuing Education Units (CEU)
A Continuing Education Unit (CEU) is a nationally standardized unit documenting participation in noncredit programs, courses, or workshops. The Division of Extended Studies approves and transcribes CEUs, which can be provided to employers as verification that you have completed a course in which CEUs were granted. CEUs cannot be converted to academic credit. For more information, call (208) 426-1709.

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

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 http://extendedstudies.boisestate.edu.
Boise State University Administration

President
Robert W. Kustra

Provost and Vice President for Academic Affairs
Martin E. Schimpf

Vice Provost for Academic Planning
James Munger

Vice Provost for Undergraduate Studies
Sharon McGuire

Vice President for Finance and Administration
Stacy Pearson

Associate Vice President for Finance and Administration
Jo Ellen Dinucci

Associate Vice President for Information Technology
Max Davis-Johnson

Interim Associate Vice President for Campus Planning and Facilities
Mike Sumpter

Vice President for Student Affairs
Lisa B. Harris

Vice President for University Advancement
Laura Simic

Vice President for Research
Mark Rudin

Vice President for Campus Operations and General Council
Kevin Satterlee

Dean of University Libraries
Tracy Bicknell-Holmes

Graduate College
Dean, John R. (Jack) Pelton
Associate Dean, Christopher Hill

College of Arts and Sciences
Dean, Tony Roark
Associate Dean of Arts and Humanities, Leslie Durham
Associate Dean of Mathematics and Sciences, C.J. Northrup

College of Business and Economics
Dean, Kenneth Petersen
Associate Dean, Diane Schooley-Pettis
Associate Dean for Graduate Studies and Executive Education, Kirk Smith

College of Education
Dean, Richard Osguthorpe
Associate Dean, Keith Thiede

College of Engineering
Dean, Amy J. Moll
Associate Dean of Academic Affairs, Janet Callahan
Assistant Dean of Research and Infrastructure, Rex Oxford

College of Health Sciences
Dean, Tim Dunnagan
Interim Associate Dean, Ron Pfeiffer

College of Social Sciences and Public Affairs
Interim Dean, Shelton Woods
Interim Associate Dean, Les Alm
Associate Dean for Faculty Development, Andrew Giacomazzi

Division of Extended Studies
Dean, Mark Wheeler
Associate Dean, Peter Risse
Boise State University Graduate Faculty

Full-Time Official Faculty as of June 15, 2014

Note: The date in parentheses is the year of first appointment.

Accountancy

Bahnson, Paul R. * .................................................. (1999)
Professor, Accountancy; Ph.D., University of Utah

Cowen, Mark * .................................................. (2001)
Professor, Accountancy; J.D., University of Connecticut

English, Denise M. * .................................................. (2008)
Professor, Accountancy; Ph.D., Indiana University, Bloomington

English, Thomas J. * .................................................. (1987)
Professor, Accountancy; Ph.D., Arizona State University

Hyatt, Troy * .................................................. (2011)
Chair and Associate Professor, Accountancy; Ph.D., University of Arizona

Koeppen, David R. * .................................................. (1996)
Professor, Accountancy; Ph.D., University of Wisconsin–Madison

Lathen, William * .................................................. (1984)
Professor, Accountancy; Ph.D., Arizona State University

Lee, Michael T. * .................................................. (2011)
Assistant Professor, Accountancy; Ph.D., University of Melbourne

Novak, E. Shawn * .................................................. (1996)
Associate Professor, Accountancy; Ph.D., University of Houston

Anthropology

Demps, Kathryn * .................................................. (2012)
Assistant Professor, Anthropology; Ph.D., University of California, Davis

Hill, Christopher L. * .................................................. (2002)
Associate Dean, Graduate College and Professor, Anthropology; Ph.D., Southern Methodist University

Peri-Lin, Yu * .................................................. (2014)
Assistant Professor, Anthropology; Ph.D., Southern Methodist University

Plew, Mark G. * .................................................. (1984)
Graduate Program Coordinator and Professor, Anthropology; Ph.D., Indiana University, Bloomington

Snopkowski, Kristin * .................................................. (2014)
Assistant Professor, Anthropology; Ph.D., University of New Mexico

Chair and Assistant Professor, Anthropology; Ph.D., University of California, Santa Barbara

Art

Bacon, Stephanie * .................................................. (1998)
Professor, Art; M.F.A., Brooklyn College

Blakelee, Laurie * .................................................. (2001)
Associate Professor, Art; M.F.A., University of Arizona

Biddle, James * .................................................. (1997)
Professor, Art; M.F.A., California State University, Fullerton

Dinkar, Niharika * .................................................. (2006)
Associate Professor, Art; Ph.D., State University of New York at Stony Brook

Earley, Caroline * .................................................. (2010)
Assistant Professor, Art; M.F.A., University of Wisconsin–Milwaukee

Elder, Thomas * .................................................. (2001)
Associate Professor, Art; M.F.A., Iowa State University

Erpelding, Chad * .................................................. (2010)
Graduate Program Coordinator and Associate Professor, Art; M.F.A., Southern Illinois University Carbondale

Fitterer, Jill * .................................................. (2006)
Assistant Professor, Art; M.F.A., California State University, Long Beach

Biological Sciences

Fox, Francis * .................................................. (1999)
Professor, Art; M.F.A., University of Wyoming

Francis, John * .................................................. (2002)
Associate Professor, Art; M.S., Florida State University

Keys, Kathleen * .................................................. (2004)
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McNeil, Larry * .................................................. (1999)
Professor, Art; M.F.A., University of New Mexico

Neri, Janice L. * .................................................. (2006)
Professor, Art; Ph.D., University of California, Irvine

Pearso, Craig * .................................................. (2009)
Assistant Professor, Art; Ph.D., State University of New York at Stony Brook

Sadler, Jonathan * .................................................. (2007)
Associate Professor, Art; M.F.A., The School of the Museum of Fine Arts, Boston and Tufts University, Summerville

Scott, Dan * .................................................. (2006)
Associate Professor, Art; M.F.A., New York Academy of Art

Smolovitz, Anika * .................................................. (2003)
Professor, Art; M.F.A., University of Wisconsin, Madison

Turner, Lee Ann * .................................................. (1996)
Chair and Professor, Art; Ph.D., University of Pennsylvania

Walker, Kate * .................................................. (2011)
Assistant Professor, Art; M.F.A., University of Arizona

Young, Richard A. * .................................................. (1994)
Professor, Art; M.F.A., Washington State University

Bilingual Education

Bahruth, Robert * .................................................. (1988)
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Gabbard, David * .................................................. (2013)
Associate Professor, Bilingual Education; Ed.D., University of Cincinnati

Peralta, Claudia * .................................................. (2011)
Associate Professor, Bilingual Education; Ph.D., University of Colorado at Boulder

Rodriguez, Arturo * .................................................. (2007)
Associate Professor, Bilingual Education; Ph.D., New Mexico State University

Chemistry and Biochemistry

Bammel, Brad P. * .................................................. (1988)
Chair and Associate Professor, Chemistry and Biochemistry; Ph.D., University of New Orleans

Brown, Eric * .................................................. (2008)
Associate Professor, Chemistry and Biochemistry; Ph.D., Oregon State University

Charlher, Henry A. * .................................................. (2000)
Associate Professor, Chemistry and Biochemistry; Ph.D., Medical College of Wisconsin

Cornell, Kenneth A. * .................................................. (2006)
Graduate Program Coordinator and Associate Professor, Chemistry and Biochemistry; Ph.D., Oregon Health and Sciences University

Lee, Jeunghoon * .................................................. (2008)
Assistant Professor, Chemistry and Biochemistry, Materials Science and Engineering; Ph.D., University of Connecticut

LeMaster, Clifford * .................................................. (1999)
Professor, Chemistry and Biochemistry; Ph.D., University of California, Davis

Hampikian, Gregory * .................................................. (2004)
Professor, Biological Sciences; Ph.D., University of Connecticut

Hayden, Eric J. * .................................................. (2013)
Assistant Professor, Biological Sciences; Ph.D., Portland State University

Heath, Julie * .................................................. (2007)
Graduate Program Coordinator and Associate Professor, Biological Sciences; Ph.D., University of Florida

Jorcyk, Cheryl * .................................................. (1998)
Professor, Biological Sciences; Ph.D., Johns Hopkins University

Koetsier, Peter * .................................................. (1995)
Professor, Biological Sciences; Ph.D., Idaho State University

Mitchell, Kristen A. * .................................................. (2007)
Assistant Professor, Biological Sciences; Ph.D., Washington State University

Morrison, Brad E. * .................................................. (2013)
Assistant Professor, Biological Sciences; Ph.D., University of Texas at Dallas

Munger, James C. * .................................................. (1988)
Associate Vice-President, Academic Planning and Professor, Biological Sciences; Ph.D., University of Arizona

Robertson, Ian C. * .................................................. (2000)
Professor, Biological Sciences; Ph.D., Simon Fraser University, Burnaby, B.C., Canada

Robn, Troy * .................................................. (2000)
Professor, Biological Sciences; Ph.D., University of Washington

Serpe, Marcello * .................................................. (1998)
Professor, Biological Sciences; Ph.D., University of California, Davis

Smith, James F. * .................................................. (1992)
Professor, Biological Sciences; Ph.D., University of Wisconsin, Madison

Tinker, Juliette * .................................................. (2004)
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White, Merlin M. * .................................................. (2006)
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Wimgert, Denise G. * .................................................. (2003)
Graduate Program Coordinator and Professor, Biological Sciences; Ph.D., Washington State University

Abbott, Robert * .................................................. (1996)
Associate Professor, Biological Sciences; Ph.D., Washington State University

Barber, Jesse R. * .................................................. (2011)
Assistant Professor, Biological Sciences; Ph.D., Wake Forest University

Bechard, Marc Joseph * .................................................. (1983)
Professor, Biological Sciences; Ph.D., Washington State University

Belhoff, James * .................................................. (1993)
Professor, Biological Sciences; Ph.D., Clemson University

de Graaf, Marie-Anne * .................................................. (2010)
Assistant Professor, Biological Sciences; Ph.D., Wageningen University

Feris, Kevin * .................................................. (2005)
Chair and Associate Professor, Biological Sciences; Ph.D., University of Montana

Forbey, Jennifer * .................................................. (2008)
Assistant Professor, Biological Sciences; Ph.D., University of Utah
Chittoori, Bhaskar
Associate Professor, Chemistry and Biochemistry; Ph.D., University of Wisconsin-Madison
Markel, Michael* Director of Technical Communication and Professor, English; Ph.D., Pennsylvania State University
Mccellan, erin d. Assistant Professor, Communication; Ph.D., University of Colorado at Boulder
Mccellan, John G. * Assistant Professor, Communication; Ph.D., University of Colorado at Boulder
McLuskie, C. Ed Jr* Professor, Communication; Ph.D., University of Iowa
Moore, Rick Clifton* Chair and Associate Professor, Communication; Ph.D., University of Oregon
Most, Marshall* Associate Professor, Communication; M.A., Boise State University
Melson-Marsh, Natalie* Graduate Program Coordinator and Associate Professor, Communication; Ph.D., University of Colorado
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Rudd, Robert I. Associate Professor; Communication; Ph.D., University of Oregon
Traynowicz, Laurel* Associate Professor; Communication; Ph.D., University of Iowa

Civil Engineering
Chittoori, Bhaskar
Assistant Professor, Civil Engineering; Ph.D., University of Texas, Arlington
Farid, Arvin* Graduate Program Coordinator and Assistant Professor, Civil Engineering; Ph.D., Northeastern University, Boston
Hamilton, Robert W.* Associate Professor, Civil Engineering; Ph.D., University of Maine
Hernandez, Jairo* Assistant Professor, Civil Engineering; Ph.D., Utah State University
Khanal, Mandar* Chair and Associate Professor, Civil Engineering; Ph.D., University of California, Irvine
Lu, Yang Assistant Professor, Civil Engineering; Ph.D., Virginia Tech
Miller, Sondra M.* Assistant Professor, Civil Engineering; Ph.D., University of Iowa
Mizsky, Rebecca Chair, Electrical and Computer Engineering and Associate Professor, Civil Engineering; Ph.D., University of Tennessee
Murgel, George A.* Associate Professor, Civil Engineering; Ph.D., Cornell University
Srithar, Venkataramana R. Associate Professor, Civil Engineering; Ph.D., Oklahoma State University

Communication
Ashley, Seth* Assistant Professor, Communication; Ph.D., University of Missouri
Casper, Mary Frances* Associate Professor, Communication; Ph.D., North Dakota State University
Cho, Daehwan* Assistant Professor, Communication; M.E.A., Southern Illinois University Carbondale
Hicks, Manda* Assistant Professor, Communication; Ph.D., Bowling Green State University
Lane, Julie Assistant Professor, Communication; Ph.D., University of Wisconsin-Madison

Community and Environmental Health
Baker, Edward (Ted)* Associate Professor, Community and Environmental Health; Ph.D., Temple University
Esp, Susan Graduate Program Coordinator and Assistant Professor, Community and Environmental Health, Ph.D., University of Idaho
Hannah, Elizabeth* Professor, Community and Environmental Health; Ph.D., University of Wisconsin-Milwaukee
Toevs, Sarah E.* Graduate Program Coordinator and Professor, Community and Environmental Health; Ph.D., University of Utah
Stephenson, Dale* Director of Environmental Health and Professor, Community and Environmental Health; Ph.D., Colorado State University

Community and Regional Planning
Ashley, Amanda* Assistant Professor, Community and Regional Planning; Ph.D., University of Pennsylvania
Vos, Jacobs (Jaap) Assistant Professor; Communication and Regional Planning; Ph.D., University of Illinois at Urbana–Champaign
Wuerzer, Thomas Assistant Professor; Communication and Regional Planning; Ph.D., University of Cincinnati
Zhu, Pengyu Assistant Professor, Communication and Regional Planning; Ph.D., University of Southern California

Computer Science
Andersen, Timothy* Chair and Professor, Computer Science; Ph.D., Brigham Young University
Buffenbarger, James* Associate Professor; Computer Science; Ph.D., University of California, Davis

Counselor Education
Birdsall, Bobbie A.* Graduate Program Coordinator, and Associate Professor; Counseling; Ph.D., Oregon State University
Douxas, Diana M.* Chair and Professor, Counseling; Ph.D., University of Southern California
Midgett, Aida* Associate Professor, Counseling; Ph.D., Arizona State University
Schottelkorb, April Associate Professor, Counseling; Ph.D., University of North Texas

Criminal Justice
Ball, Jeremy* Chair and Associate Professor, Criminal Justice; Ph.D., University of Nebraska–Omaha
Bostaph, Lisa G.* Graduate Program Coordinator and Associate Professor, Criminal Justice; Ph.D., University of Cincinnati
Giacomazzi, Andrew* Professor, Criminal Justice; Ph.D., Washington State University
Gillespie, Lane* Assistant Professor, Criminal Justice; Ph.D., University of South Florida
King, Laura* Assistant Professor, Criminal Justice; Ph.D., Indiana University Pennsylvania
Marsh, Robert L.* Professor, Criminal Justice; Ph.D., Sam Houston State University
Taylor, Charlene* Assistant Professor, Criminal Justice; Ph.D., University of Cincinnati
Walsh, Anthony* Professor, Criminal Justice; Ph.D., Bowling Green State University

Curriculum, Instruction, and Foundational Studies
Anderson, Holly L.* Professor, Curriculum, Instruction, and Foundational Studies; Ph.D., University of Idaho
Brendelur, Jonathan* Professor, Curriculum, Instruction, and Foundational Studies; Ph.D., University of Wisconsin-Madison
Budge, Kathleen* Assistant Professor Educational Leadership Coordinator, Curriculum, Instruction, and Foundational Studies; Ed.D., University of Washington

Conrad Jim* Associate Professor, Computer Science; Ph.D., Purdue University
Cutchin, Steven M.* Associate Professor, Computer Science; Ph.D., Purdue University
Diaiani, Vijay* Associate Professor, Computer Science; Ph.D., University of South Hampton
Jain, Amit* Associate Professor, Associate Department Chair, Computer Science; Ph.D., University of Central Florida
Sherman, Elena A.* Assistant Professor, Computer Science; Ph.D., University of Nebraska, Lincoln
Uh, Gang-Ryung* Associate Professor, Computer Science; Ph.D., Florida State University
Xu, Dianming* Graduate Program Coordinator and Professor, Computer Science; Ph.D., Nanjing University

Yeh, Jyh-haw* Associate Professor, Computer Science; Ph.D., University of Florida
Carney, Michele* ................................................ (2012)  
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Foundational Studies; Ph.D., University of Idaho  
Cross, Kelly* .............................................................. (2008)  
Clinical Assistant Professor, Curriculum, Instruction,  
and Foundational Studies; Ed.D., Boise State University  
Dismuke, Sherry* .......................................................... (2013)  
Clinical Assistant Professor, Curriculum, Instruction,  
and Foundational Studies; Ph.D., Boise State University  
Fry, Sara* ................................................................. (2008)  
Associate Professor, Curriculum, Instruction,  
and Foundational Studies; Ph.D., University of Wyoming  
Kelly, Philip P.* ............................................................. (2001)  
Chair, Graduate Program Coordinator and Professor,  
Curriculum, Instruction, and Foundational Studies;  
Ph.D., Michigan State University  
Miller, Rickie* ............................................................. (1992)  
Associate Chair and Associate Professor, Curriculum,  
Instruction, and Foundational Studies; Ph.D., New  
Mexico State University  
Nadehn, Louis* ........................................................... (2008)  
Graduate Program Coordinator and Associate Professor,  
Curriculum, Instruction, and Foundational Studies;  
Ph.D., University of Nevada, Las Vegas  
Osguthorpe, Richard* .................................................... (2005)  
Dean, College of Education and Associate Professor,  
Curriculum, Instruction, and Foundational Studies;  
Ph.D., University of Michigan  
Director, Center for School Improvement and Professor,  
Curriculum, Instruction, and Foundational Studies;  
Ph.D., Indiana University  
Quarles, Roger* ........................................................ (2011)  
Associate Professor, Curriculum, Instruction, and  
Foundational Studies; Ph.D., University of Idaho  
Snow, Jennifer L* ........................................................ (2003)  
Professor, Curriculum, Instruction, and Foundational  
Studies; Ph.D., Pennsylvania State University, University  
Park  
Thiede Keith W.* ............................................................ (2006)  
Graduate Program Coordinator and Professor,  
Curriculum, Instruction, and Foundational Studies;  
Ph.D., University of Washington  
Williamson, Scott* .................................................... (1997)  
Director, Center for Multicultural and Educational  
Opportunities and Professor, Curriculum, Instruction,  
and Foundational Studies; Ph.D., Indiana University  
Economics  
Black, Geoffrey A* ...................................................... (2014)  
Associate Professor, Economics; Ph.D., University of  
Washington  
Hansen, Zeynep Kobayik ................................................ (2008)  
Chair and Professor, Economics; Ph.D., University of  
Arizona  
Loulou, Christine* ....................................................... (1989)  
Professor, Economics; Ph.D., Washington State  
University  
Lowe, Scott E.* ............................................................ (2006)  
Director, Environmental Studies Program and Associate  
Professor, Economics; Ph.D., University of California,  
Santa Barbara  
Mooney, Stan* ............................................................. (2006)  
Professor, Economics; Ph.D., Oregon State University  
Twight, Charlotte* ....................................................... (1986)  
Professor, Economics; Ph.D., University of Washington  
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Professor, Educational Technology; Ph.D., Georgia  
State University  
Ching, Yu-Hui* .......................................................... (2011)  
Assistant Professor, Educational Technology; Ph.D.,  
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Friesen, Norm* .......................................................... (2013)  
Associate Professor, Educational Technology; Ph.D.,  
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Hsu, Yu-Chang* ........................................................... (2011)  
Assistant Professor, Educational Technology; Ph.D.,  
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Hung, Jui-ling (Andy)* .................................................. (2008)  
Associate Professor, Educational Technology; Ph.D.,  
Texas Tech University  
Lowenthal, Patrick R.* ................................................... (2013)  
Assistant Professor, Educational Technology; Ph.D.,  
University of Colorado, Denver  
Perkins, Ross* ............................................................ (2008)  
Graduate Program Coordinator and Associate Professor,  
Educational Technology; Ph.D., Virginia Polytechnic  
Institute and State University  
Rice, Kerry Lynn* .......................................................... (2006)  
Professor, Educational Technology; Ed.D., Boise State  
University  
Shelton, Brett E.* .......................................................... (2013)  
Chair and Associate Professor, Educational Technology;  
Ph.D., University of Washington  
Snelson, Clareen Lee* .................................................... (2006)  
Graduate Program Coordinator and Associate Chair  
and Associate Professor, Educational Technology, Ed.D.;  
Boise State University  
Trespalacios, Jesus* ....................................................... (2013)  
Assistant Professor, Educational Technology; Ph.D.,  
Virginia Polytechnic Institute and State University  
Yang, Daizi* ............................................................... (2011)  
Associate Professor, Educational Technology; Ph.D.,  
Purdue University  
Electrical and Computer Engineering  
Associate Professor, Electrical and Computer  
Engineering; Ph.D., University of Illinois at Urbana–  
Champaign  
Barney Smith, Elisa* ..................................................... (1999)  
Associate Professor, Electrical and Computer  
Engineering; Ph.D., Rensselaer Polytechnic Institute  
Brownling, Jim* ............................................................ (2007)  
Associate Professor, Electrical and Computer  
Engineering; Ph.D., University of Wisconsin, Madison  
Campbell, Kris A* ........................................................ (2005)  
Associate Professor, Electrical and Computer  
Engineering; Ph.D., University of Nevada, Las Vegas  
Chen, Hao* ................................................................. (2010)  
Assistant Professor, Electrical and Computer  
Engineering; Ph.D., University of Texas, Dallas  
Chiasson, John N* ......................................................... (2006)  
Graduate Program Coordinator and Professor,  
Electrical and Computer Engineering; Ph.D., University  
of Minnesota  
Graduate Program Coordinator and Professor,  
Electrical and Computer Engineering, Materials Science  
and Engineering; Ph.D., University of California,  
Berkeley  
Kuang, Wan* .............................................................. (2005)  
Associate Professor, Electrical and Computer  
Engineering; Ph.D., University of Southern California  
Loo, Sin Ming* .............................................................. (2004)  
Professor, Electrical and Computer Engineering; Ph.D.,  
University of California, Santa Barbara  
Mikovka, Marj* ............................................................. (2007)  
Associate Professor, Electrical and Computer  
Engineering; Ph.D., University of Chemical Technology  
and Metallurgy, Sofia, Bulgaria  
Rafii, Nadir* ................................................................. (1996)  
Graduate Program Coordinator and Associate Professor,  
Electrical and Computer Engineering; Ph.D., Case  
Western Reserve University  
Saxena, Vishal* ............................................................ (2010)  
Assistant Professor, Electrical and Computer  
Engineering; Ph.D., Boise State University  
Smith, Jennifer A* ....................................................... (2001)  
Associate Professor, Electrical and Computer  
Engineering; Ph.D., University of Idaho; Ph.D., State  
University of New York, Albany.  
Welch, Thad B.* ............................................................ (2008)  
Professor, Electrical and Computer Engineering; Ph.D.,  
University of Colorado, Colorado Springs  
English  
Ballenger, Bruce* ......................................................... (1995)  
Professor, English; Ph.D., University of New Hampshire  
Basu Thakur, Gautam* .................................................... (2012)  
Assistant Professor, English; Ph.D., University of Illinois  
Urbana–Champaign  
Battalo, John T* ............................................................ (1995)  
Associate Professor, English; Ph.D., Texas A&M  
University  
Campbell, Ann* ........................................................ (2004)  
Associate Professor, English; Ph.D., Emory University  
Clare, Ralph* .............................................................. (2012)  
Assistant Professor, English; Ph.D., Stony Brook  
University  
Coles-Smith, Martin* ..................................................... (2000)  
Professor, English; Ph.D., University of Utah  
Douglas, Whitney* ....................................................... (2013)  
Assistant Professor, English; Ph.D., University of  
Nebraska–Lincoln  
Estrem, Heidi* ............................................................. (2008)  
Associate Professor, English; Ph.D., University of  
Nevada, Reno  
Fredrickson, James E.* ................................................... (2008)  
Associate Professor, English; Ph.D., Michigan State  
University  
Hansen, Matthew C* ..................................................... (2005)  
Associate Professor, English; Ph.D., University of  
Nebraska  
Harvey, Samantha C* .................................................... (2011)  
Associate Professor, English; Ph.D., Cambridge  
University  
Hillard, Thomas* ........................................................ (2008)  
Graduate Program Coordinator and Associate Professor,  
English; Ph.D., University of Arizona  
Hindrichs, Cheryl* ........................................................ (2008)  
Associate Professor, English; Ph.D., Ohio State  
University  
Holmes, Janet* ........................................................... (1999)  
Professor, English; M.F.A., Warren Wilson College  
Keck, Casey* ............................................................ (2012)  
Assistant Professor, English; Ph.D., Northern Arizona  
University  
Martinez, Michal Tempkin* ............................................. (2011)  
Assistant Professor, English; Ph.D., University of  
Southern California  
Moneynen, Clyde* ........................................................ (2011)  
Associate Professor, English; Ph.D., University of  
Arizona  
Munger, Roger* .......................................................... (2001)  
Associate Chair and Professor, English; Ph.D.,  
Rensselaer Polytechnic Institute  
O‘Connor, Jacqueline* ................................................... (2001)  
Professor, English; Ph.D., University of California,  
Davis  
Olson-Smith, Steven* .................................................... (2000)  
Professor, English; Ph.D., University of Delaware  
Payne, Michelle M* ....................................................... (1997)  
Chair and Professor, English; Ph.D., University of New  
Hampshire  
Penny, Tara* ................................................................. (2000)  
Associate Professor, English; Ph.D., Fordham University  
Ramirez-Dhoore, Dora Alicia* ........................................ (2008)  
Associate Professor, English; Ph.D., University of  
Nebraska, Lincoln  
Robbins, Bruce* ........................................................ (1990)  
Graduate Program Coordinator and Professor, English;  
Ph.D., Indiana University  
Shepherd, Dawn* ........................................................ (2012)  
Assistant Professor, English; Ph.D., North Carolina State  
University
### Geosciences

- Adam, Ludmila* .......................................................... (2011)
- Assistant Research Professor, Geosciences; Ph.D., Colorado School of Mines
- Research Professor, Geosciences; Ph.D., University of Idaho

### History

- Barbour, Barton* ............................................................. (2001)
- Chair and Professor, History; Ph.D., Rice University
- Barbour, Barton* ............................................................. (2001)
- Associate Professor, History; Ph.D., Indiana University
- Barber, Joseph* ............................................................. (2003)
- Assistant Professor, History; Ph.D., University of California–Los Angeles
- Becker, Thomas* ............................................................. (1995)
- Professor, History; Ph.D., University of Virginia

### Information Technology and Supply Chain Management

- Anson, Robert* ............................................................. (1990)
- Professor, Information Technology and Supply Chain Management; Ph.D., Indiana University
- Anson, Robert* ............................................................. (1990)
- Associate Professor, Information Technology and Supply Chain Management; Ph.D., University of Arizona

### Interdisciplinary Studies

- Jones, Daryl E.* ............................................................. (1986)
- Director, Interdisciplinary Studies Graduate Program; Ph.D., Michigan State University

### Information Technology and Supply Chain Management

- Shannon, Patrick* ............................................................. (1974)
- Professor, Information Technology and Supply Chain Management; Ph.D., University of Oregon

### Literacy

- Armstrong, James* ............................................................. (1992)
- Professor, Literacy; Ph.D., University of Illinois at Urbana–Champaign

### Kinesiology

- Bell, Kenneth* ............................................................. (1997)
- Associate Professor, Kinesiology; Ph.D., Virginia Polytechnic Institute and State University
Graduate Faculty

Son, Eun Hye* ............................................. (2009)
Assistant Professor, Literacy; Ph.D., Ohio State University, Columbus

Steiner, Stanley* ........................................ (1992)
Chair, Graduate Program Coordinator, and Professor, Literacy; Ph.D., University of Wyoming

Stewart, Roger* .......................................... (1995)
Professor, Literacy; Ph.D., Purdue University

Tsvengel, Lee Ann* .................................... (1992)
Associate Professor, Literacy; Ph.D., University of Wisconsin, Madison

Management

Baughn, C. Christopher* ................................ (1998)
Professor, Management; Ph.D., Wayne State University

Buchanan, Mark A.* .................................... (1996)
Professor, Management; J.D., University of Nebraska, Lincoln

Kaupunk, Gundars...................................... (2008)
Chair and Professor, Management; Ph.D., University of Iowa

McIntosh, John ........................................... (2008)
Associate Professor, Management; Ph.D., University of Illinois at Urbana-Champaign

McNatt, D. Brian ......................................... (2010)
Assistant Professor, Management; Ph.D., University of Iowa

Napier, Nancy K.* ....................................... (1986)
Director of International Business Consortium and Programs, College of Business and Economics; Professor, Management; Ph.D., Ohio State University

Neupert, Kent* ......................................... (2004)
Professor, Management; Ph.D., University of Western Ontario

Suheut, Jeffrey S. ...................................... (2008)
Assistant Professor, Management; Ph.D., Rensselaer Polytechnic Institute

Wanek, James E.* ....................................... (1996)
Professor, Management; Ph.D., University of Minnesota

Marketing and Finance

Harvey, Keith* .......................................... (2000)
Chair and Professor, Marketing and Finance; Ph.D., University of Tennessee, Knoxville

Lincoln, Douglas J.* .................................. (1980)
Professor, Marketing and Finance; Ph.D., Virginia Polytechnic Institute and State University

MacDonald, Jason B. .................................. (2000)
Associate Professor, Marketing and Finance; Ph.D., University of Texas–Pan American

Mahe, Matthew* ....................................... (1989)
Professor, Marketing and Finance; Ph.D., University of Illinois at Urbana-Champaign

Ray, Nina Marte* ...................................... (1986)
Professor, Marketing and Finance; Ph.D., Texas Tech University

Sarin, Shikhar* .......................................... (2002)
Professor, Marketing and Finance; Ph.D., University of Texas at Austin

Schools-Pettis, Diane* ................................ (1989)
Associate Dean, College of Business and Economics and Professor, Marketing and Finance; Ph.D., University of Colorado at Boulder

Sego, Trina* ............................................ (2002)
Professor, Marketing and Finance; Ph.D., University of Texas at Austin

Smith, Kirk* ............................................. (1993)
Associate Dean for Graduate Studies and Executive Education, and Professor, Marketing and Finance; Ph.D., University of Houston

White, Harry* ............................................ (1988)
Professor, Marketing and Finance; Ph.D., Texas A&M University

Materials Science and Engineering

Allahar, Kerry* ........................................ (2010)
Associate Research Professor, Materials Science and Engineering; Ph.D., University of Florida

Butt, Darryl* ............................................ (2005)
Distinguished Professor, Materials Science and Engineering; Ph.D., Pennsylvania State University

Chinnathambi, Karthik ................................ (2012)
Research Associate, Materials Science and Engineering; Ph.D., Indian Institute of Science

Estrada, David* ........................................ (2013)
Assistant Professor, Materials Science and Engineering; Ph.D., University of Illinois at Urbana-Champaign

Frary, Megan* ......................................... (2005)
Associate Professor, Materials Science and Engineering; Ph.D., Massachusetts Institute of Technology

Graugnard, Elton* ..................................... (2010)
Assistant Research Professor, Materials Science and Engineering; Ph.D., Purdue University

Hughes, William L.* .................................. (2008)
Associate Professor, Materials Science and Engineering; Ph.D., Georgia Institute of Technology

Hurley, Michael* ....................................... (2010)
Assistant Research Professor, Materials Science and Engineering; Ph.D., University of Virginia

Graduate Program Coordinator and Professor, Electrical and Computer Engineering, Materials Science and Engineering; Ph.D., University of California, Berkeley

Lee, Jeunghoon ........................................ (2008)
Assistant Professor, Chemistry and Biochemistry, Materials Science and Engineering; Ph.D., University of Connecticut

Li, Lan ..................................................... (2012)
Assistant Professor, Materials Science and Engineering; Ph.D., University of Cambridge

Lindquist, Paul* ...................................... (2010)
Assistant Research Professor, Materials Science and Engineering; Ph.D., University of Illinois

Dean, College of Engineering and Professor, Materials Science and Engineering; Ph.D., University of California, Berkeley

Mueller, Peter* ........................................ (2004)
Chair and Professor, Materials Science and Engineering; Ph.D., Swiss Federal Institute of Technology

Ubo, Rick* .............................................. (2007)
Assistant Research Professor, Materials Science and Engineering; Ph.D., The University of Sheffield, UK

Wharry, Janelle* ...................................... (2013)
Assistant Professor, Materials Science and Engineering; Ph.D., University of Michigan

Xiong, Hui (Claire)* .................................... (2012)
Assistant Professor, Materials Science and Engineering; Ph.D., University of Pittsburgh

Youngman, John* .................................... (2011)
Assistant Professor, Material Sciences and Engineering; Ph.D., Washington State University

Yurke, Bernadette* .................................... (2008)
Research Professor, Materials Science and Engineering; Ph.D., Cornell University

Mathematics

Babinkostova, Liljana* ................................ (2007)
Associate Professor, Mathematics; Ph.D., University of St. Cyril and Methodius, Macedonia

Associate Professor, Mathematics; Ph.D., University of Vermont

Bullock, Douglas* .................................... (1995)
Assistant Professor, Mathematics; Ph.D., University of Iowa

Caied, Andres Eduardo* ......................... (2009)
Associate Professor, Mathematics; Ph.D., University of California, Berkeley

Calhoun, Donna* ..................................... (2012)
Assistant Professor, Mathematics; Ph.D., University of Washington

Cavey, Laurie* ........................................ (2010)
Graduate Program Coordinator and Assistant Professor, Mathematics; Ph.D., North Carolina State University

Coskey, Samuel* ...................................... (2013)
Assistant Professor, Mathematics; Ph.D., Rutgers University

Harlander, Jens* ...................................... (2007)
Associate Professor, Mathematics; Ph.D., University of Oregon

Homes, M. Randall* ................................ (1991)
Associate Professor, Mathematics; Ph.D., State University of New York at Binghamton

Kaiser, Uwe* ........................................... (2001)
Associate Professor, Mathematics; Ph.D., University of Siegen

Kinzle, Margaret N.* ............................... (2000)
Associate Professor, Mathematics; Ph.D., Pennsylvania State University

Ko, Kyungduk* ........................................ (2004)
Associate Professor, Mathematics; Ph.D., Texas A&M University

Lee, Jaehoul* .......................................... (2003)
Associate Professor, Mathematics; Ph.D., University of Georgia

Mead, Jodi L.* .......................................... (2000)
Graduate Program Coordinator, and Professor, Mathematics; Ph.D., Arizona State University

Mukherjee, Partha S. ............................... (2013)
Assistant Associate Professor, Mathematics; Ph.D., University of Minnesota

Qu, Leming* .......................................... (2002)
Chair and Associate Professor, Mathematics; Ph.D., Purdue University

Schoen, Marissa* ..................................... (1988)
Professor, Mathematics; Ph.D., University of Kansas

Smith, Mary Jarrett* ................................ (1987)
Associate Professor, Mathematics; Ph.D., Montana State University

Teitel, Zachariah* .................................... (2011)
Assistant Professor, Mathematics; Ph.D., University of Michigan

Wang, Sasha* .......................................... (2011)
Assistant Professor, Mathematics; Ph.D., Michigan State University

Wright, Grady* ....................................... (2007)
Associate Professor, Mathematics; Ph.D., University of Colorado at Boulder

Zubik-Kowal, Barbara* ......................... (2002)
Professor, Mathematics; Ph.D., Adam Mickiewicz University

Mechanical and Biomedical Engineering

Ferguson, James R.* ............................... (1996)
Associate Professor, Mechanical and Biomedical Engineering; Ph.D., Washington State University

Gardner, John E.* .................................... (2000)
Director for Energy Efficiency Research Graduate Program Coordinator and Professor, Mechanical and Biomedical Engineering; Ph.D., Ohio State University

Guarino, Joseph C.* ............................... (2000)
Professor, Mechanical and Biomedical Engineering; Ph.D., University of Idaho

Lujan, Trevor ........................................... (2011)
Assistant Professor, Mechanical and Biomedical Engineering; Ph.D., University of Utah

Plummer, Don E.* .................................. (2008)
Chair and Associate Professor, Mechanical and Biomedical Engineering; Ph.D., University of Idaho

Sabick, Michelle* ................................ (2002)
Professor, Mechanical and Biomedical Engineering; Ph.D., University of Iowa

Senocak, Inanc* ..................................... (2008)
Associate Professor, Mechanical and Biomedical Engineering; Ph.D., University of Florida

Professor, Mechanical and Biomedical Engineering; Ph.D., Wayne State University
Graduate Faculty

Zhang, Yanliang ............................................. (2013)
Assistant Professor, Mechanical and Biomedical
Engineering; Ph.D., Rensselaer Polytechnic Institute

Music

Baldwin, John B.* ......................................... (1971)
Professor, Music; Ph.D., Michigan State University

Belfy, Jeanne Marie* ...................................... (1983)
Graduate Program Coordinator and Professor, Music;
Ph.D., University of Kentucky

Professor, Music; D.M.A., University of Wisconsin,
Madison

Brown, Marcelle* ......................................... (1989)
Associate Professor, Music; M.M., University of
Michigan at Ann Arbor

Graduate Program Coordinator and Associate Director,
Center for Teaching and Learning and Associate
Professor, Music; Ed.D., University of Illinois at
Urbana-Champaign

Hansen, Mark R.* ......................................... (2007)
Chair and Professor, Music; D.M.A., University of North
Texas, Denton

Hodges, Brian* ........................................... (2008)
Assistant Professor, Music; D.M.A., University of North
Carolina at Greensboro

Jirak, James* .............................................. (1994)
Associate Professor, Music; D.A., University of Colorado

Lamar, Linda Klime* ...................................... (2000)
Professor, Music; D.A., University of Memphis

Molumba, Nicole* ......................................... (2005)
Associate Professor, Music; D.M.A., Ohio State
University

Moreau, Leslie M.* .................................... (2007)
Associate Professor, Music; D.M.A., Arizona State
University

Hoppe, Alex .................................................. (2013)
Assistant Professor, Music; D.M., Indiana University

Parkinson, Del R.* ....................................... (1985)
Professor, Music; D.M., Indiana University

Porter, C. Michael* ....................................... (2005)
Assistant Professor, Music; D.M.A., University of Iowa

Purdy, Craig A.* .......................................... (1987)
Associate Professor, Music; M.M., New England
Conservatory

Rushing-Raynes, Laura* ................................ (1998)
Associate Professor, Music; D.M.A., University of
Arizona

Samball, Michael* ....................................... (1976)
Associate Professor, Music; D.M.A., North Texas State
University

Saunders, David* ....................................... (1997)
Professor, Music; D.M.A., State University of New
York at Stony Brook

Assistant Professor, Music; Ph.D., University of
Kentucky

Tornello, Joseph F. ..................................... (2011)
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Kentucky

Nursing

Ahren, Sara M.* .......................................... (2012)
Assistant Professor, Nursing; D.N.P., Rush University
Breitbart, Karen ............................................. (2012)
Assistant Professor, Nursing; Ed.D., Columbia
University

Carnosso, Joan .......................................... (2008)
Associate Professor, Nursing Ph.D., University of
Colorado (ABD)

Clark, Cynthia* ......................................... (1997)
Professor, Nursing; Ph.D., University of Idaho

Davis, Shoni* ............................................ (2005)
Associate Professor, Nursing; D.N.Sc., University of
California, Los Angeles

Downey, Margaret ...................................... (1993)
Associate Professor, Nursing; Ph.D., University of
Idaho

Evans, Cecile B.* ....................................... (2010)
Assistant Professor, Nursing; Ph.D., University of
Tennessee Health Science Center

Galligós, Cara M.* ...................................... (2013)
Assistant Professor, Nursing; Ph.D., University of New
Mexico

Gehrke, Pamela* ........................................ (1998)
Associate Professor, Nursing; Ed.D., Boise State
University

Grassley, Jane S.* ...................................... (2010)
Associate Professor, Nursing; Ph.D., Texas Woman's
University

Hereford, Mary* ......................................... (2003)
Associate Professor, Nursing; Ph.D., University of Idaho,
Moscow

Hubert, Ann* ............................................ (2012)
Director and Associate Professor, Nursing; Ph.D.,
Nebraska Medical Center

Kartdong-Edgren, Susan* ................................ (2013)
Research Associate Professor, Nursing; Ph.D., Texas
Women's University

Macy, Rosemary* ....................................... (2005)
Assistant Professor, Nursing; Ph.D., University of
Idaho

Pengmam, Molly* ....................................... (2014)
Assistant Professor, Nursing; M.S., Idaho State
University

Reavy, Kathleen* ....................................... (2000)
Professor, Nursing; Ph.D., University of Utah

Schrader, Vivian* ........................................ (2005)
Associate Chair and Professor, Nursing; Ph.D.,
University of Idaho

Strohlas, Pam* ........................................... (2012)
Graduate Program Coordinator and Assistant Professor,
Nursing; D.N.P., Rush University

Van Zandi, Shirley* .................................... (2013)
Clinical Assistant Professor, Nursing; M.S., Columbia
University

Vellman, Maximilian* ................................ (2013)
Instructor, Nursing; M.S., University of Texas at Austin

Organizational Performance and
Workplace Learning

Chung, Seung Youn (Yonnie)* ......................... (1997)
Professor, Organizational Performance and Workplace
Learning; Ed.D., Texas Tech University

Conley, Quincy* ........................................ (2014)
Assistant Professor, Organizational Performance ; Ph.D.,
Arizona State University

Huglin, Linda M.* ........................................ (2007)
Associate Professor, Organizational Performance and
Workplace Learning; Ph.D., University of Idaho

Marker, Anthony Wayne* ............................ (2005)
Associate Professor, Organizational Performance and
Workplace Learning; Ph.D., Indiana University,
Bloomington

Mopic, Donald A.* ................................... (1998)
Chair, Graduate Program Coordinator and Associate
Professor, Organizational Performance and Workplace
Learning; Ph.D., Purdue University

Villachia, Steven W.* ................................. (2007)
Associate Professor, Organizational Performance and
Workplace Learning; Ph.D., University of Northern
Colorado

Winicki, Donald J.* .................................. (1996)
Professor, Organizational Performance and Workplace
Learning; Ph.D., Central Queensland University; Ed.D.,
Texas Tech University

Philosophy

Roark, Anthony P.* .................................. (2005)
Dean, College of Arts and Sciences and Professor,
Philosophy; Ph.D., University of Washington

Physics

Ferguson, Matthew L. ................................ (2013)
Assistant Professor, Physics; Ph.D., University of
Maryland

Folegea, Daniel* ........................................ (2012)
Assistant Professor, Physics; Ph.D., University of
Bucharest

Hanna, Charles B.* .................................... (1996)
Chair and Professor, Physics; Ph.D., Stanford University

Kim, Byung Il* .......................................... (2006)
Professor, Physics; Ph.D., Seoul National University

Macom, Daryl* ........................................... (2011)
Associate Professor, Physics; Ph.D., Iowa State
University

Punnoose, Alex* ....................................... (2002)
Distinguished Professor, Physics; Ph.D., Aligarh Muslim
University of India

Raghani, Pushpa* ....................................... (2010)
Assistant Professor, Physics; Ph.D., Jawaharlal Nehru
Technological University

Tenne, Dmitri* .......................................... (2006)
Associate Professor, Physics; Ph.D., Russian Academy of
Sciences

Political Science

Allen, Michael ........................................... (2014)
Assistant Professor, Political Science; Ph.D.,
Binghamton University

Alm, Leslie* ............................................. (1991)
Professor, Political Science; Ph.D., Colorado State
University

Assistant Professor, Political Science; Ph.D., University of
Iowa

Fremuth, John C.* .................................... (1986)
Professor, Political Science; Ph.D., Colorado State
University

Mason, Susan G.* ...................................... (2004)
Associate Professor, Political Science; Ph.D., University
of Missouri

Moncrief, Gary F. ....................................... (1976)
Professor, Political Science; Ph.D., University of
Kentucky

Raymond, Gregory A.* ............................... (1974)
Professor, Political Science; Ph.D., University of South
Carolina

Touchton, Michael* .................................. (2013)
Assistant Professor, Political Science; Ph.D., University of
Colorado at Boulder

Psychology

Campbell, Cynthia G.* ................................ (2013)
Graduate Program Coordinator and Assistant Professor,
Psychology; Ph.D., Pennsylvania State University

Doumas, Diana M.* .................................. (2003)
Chair, Graduate Program Coordinator, and Professor,
Counselor Education; Psychology; Ph.D., University of
Southern California

Gennichi, Matthew C. ................................ (2013)
Assistant Professor, Psychology; Ph.D., University of
Denver

Professor, Psychology; Ph.D., University of Utah

Landrum, R. Eric* ...................................... (1992)
Professor, Psychology; Ph.D., Southern Illinois
University Carbondale

McAdams, Kimberly .................................. (2013)
Assistant Professor, Psychology; Ph.D., Michigan State
University

Pritchard, Mary E* ..................................... (2004)
Professor, Psychology; Ph.D., University of Denver

Selbert, Pennie S.* ..................................... (1990)
Professor, Psychology; Ph.D., University of New Mexico

Weaver, Jennifer ........................................ (2012)
Assistant Professor, Psychology; Ph.D., University of
California, Irvine

Public Policy and Administration

Fredericksen, Elizabeth* ............................ (1999)
Graduate Program Coordinator and Professor, Public
Policy and Administration; Ph.D., Washington State
University
Gregory, Bayard O.* .............................................. (2004)
Instructor, Public Policy and Administration; Ph.D., University of Idaho
Hill, Gregory* ..................................................... (2005)
Chair, Graduate Program Coordinator and Associate Professor, Public Policy and Administration; Ph.D., Texas A&M University
Hubbard, Monica* .............................................. (2014)
Visiting Assistant Professor, Public Policy and Administration; Ph.D., Oregon State University
Kinney, Richard* ............................................... (1976)
Professor, Public Policy and Administration; Political Science; Ph.D., University of Notre Dame
Lindquist, Eric .................................................. (2012)
Director, Public Policy Center; Ph.D., Texas A&M University
McCorkle, Suzanne* ........................................... (1978)
Director, Conflict Management Services; Graduate Program Coordinator, and Professor, Public Policy and Administration; Ph.D., University of Colorado Schneider, Jen* .................................................. (2014)
Associate Professor, Public Policy and Administration; Ph.D., Claremont Graduate University
Solon, David .................................................... (2008)
Assistant Professor, Public Policy and Administration; Ph.D., University of Delaware
Witt, Stephanie L.* ............................................. (1989)
Director, Public Policy Center and Professor, Political Science; Public Policy and Administration; Ph.D., Washington State University

Radiologic Sciences
Staley, Scott* .................................................. (1989)
Assistant Professor, Radiologic Sciences; M.S., Boise State University

Respiratory Care
Anderson, Jeffrey M.* ....................................... (2005)
Director, Clinical Education and Associate Professor, Respiratory Care; M.A., Boise State University

Social Work
Allen, Robin* .................................................. (1997)
Professor, Social Work; Ph.D., University of Illinois at Urbana–Champaign
Cotrell, Gretchen* ............................................ (1991)
Associate Professor, Social Work; Ph.D., University of California, Berkeley
Harkness, Daniel* ............................................ (1993)
Professor, Social Work; Ph.D., University of Kansas
Hutson, Royce .................................................. (2012)
Assistant Professor, Social Work; Ph.D., University of Wisconsin–Madison
Kenaley, Bonnie L. Davis .................................... (2009)
Assistant Professor, Social Work; Ph.D., University of Albany; State University of New York

Sociology
Blain, Michael* ................................................ (1982)
Professor, Sociology; Ph.D., University of Colorado
Husting, Virginia* ............................................ (1999)
Associate Professor, Sociology; Ph.D., University of Illinois at Urbana–Champaign
McClary, Robert S., III ...................................... (1994)
Professor, Sociology; Ph.D., Memorial University of Newfoundland
McGuire, Sharon Paterson .................................. (2008)
Associate Vice President for Undergraduate Studies and Associate Professor, Sociology; Ph.D., Virginia Polytechnic Institute and State University
Orr, Martin* ................................................... (1998)
Chair and Associate Professor, Sociology; Ph.D., University of Oregon
Romero, Sergio* ............................................. (2008)
Assistant Professor, Sociology; Ph.D., University of Oregon
Schartt, Arthur* .............................................. (2008)
Assistant Professor, Sociology; Ph.D., University of Wisconsin–Madison
Sam Castellano, Rebecca L.* .............................. (2013)
Assistant Professor, Sociology; Ph.D., Ohio State University

Special Education and Early Childhood Studies
Allred, Keith W.* ............................................. (2007)
Associate Professor, Special Education and Early Childhood Studies; Ph.D., Vanderbilt University
Carter, Deborah* ............................................. (2009)
Professor, Special Education and Early Childhood Studies; Ph.D., University of Oregon
Hampshire, Patricia* ....................................... (2011)
Assistant Professor, Special Education and Early Childhood Studies; Ph.D., Indiana University
Hourcade, Jack Joseph* .................................... (1987)
Graduate Program Coordinator and Professor, Special Education and Early Childhood Studies; Ph.D., University of Missouri, Columbia
Humphrey, Michael John* ................................ (2007)
Chair, Associate Professor, Special Education and Early Childhood Studies; Ed.D., University of Northern Colorado
Johnson, Evelyn* .......................................... (2008)
Graduate Program Coordinator and Professor, Special Education and Early Childhood Studies; Ed.D., University of Washington
Pool, Juli Lull* ............................................... (2007)
Graduate Program Coordinator and Associate Professor, Special Education and Early Childhood Studies; Ph.D., University of Oregon

Theatre Arts
Atalakon, Philip* ............................................ (1985)
Professor, Theatre Arts; M.A., State University of New York, Binghamton
Baltzell, Michael* ........................................... (1995)
Associate Professor, Theatre Arts; M.F.A., Idaho State University
Durham, Leslie ............................................... (2006)
Associate Dean, College of Arts and Sciences, and Associate Professor, Theatre Arts; Ph.D., University of Kansas
Hansen, Maria* .............................................. (1991)
Associate Professor, Theatre Arts; M.F.A., University of Utah
Klutsch, Richard* ............................................ (1992)
Chair and Associate Professor, Theatre Arts; Ph.D., Wayne State University

World Languages
Boucher, Teresa* ............................................ (1997)
Professor, World Languages; Ph.D., Princeton University
Devereux Herbeck, Mariah E.* .......................... (2012)
Assistant Professor, World Languages; Ph.D., University of Wisconsin–Madison
Garza, Maria Alicia* ....................................... (1997)
Associate Professor, World Languages; Ph.D., University of Arizona
Kane, Adrian T.* ........................................... (2012)
Associate Professor, World Languages; Ph.D., University of California–Riverside
Henderson, Heike* ........................................... (1997)
Associate Professor, World Languages; Ph.D., University of California, Davis
Herbeck, Jason R.* ........................................ (2012)
Associate Professor, World Languages; Ph.D., University of Wisconsin–Madison
Leto, Nerea* ................................................. (2012)
Assistant Professor, World Languages; M.F.A., University of Iowa
Norman, Beret Liv* ........................................ (2012)
Associate Professor, World Languages; Ph.D., University of Massachusetts–Amherst
Emeriti Graduate 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 date in parentheses is the year of first graduate appointment.

*May chair graduate committees.

Adjunct Graduate Faculty

Part-Time Faculty, Faculty from Other Universities, and Personnel from Affiliated Agencies

Note: The date in parentheses is the year of first graduate appointment.

*May chair graduate committees.
Affiliate Graduate Faculty

Participants in multi-university programs.

Austin, Emily, M.S., Com & Env Hlth (2011)
Bell, Layne, M.S., Account (2013)
Berlin, Mike, M.S., Com & Env Hlth (2011)
Black, Aprille, Ph.D., Educ Tech (2013)
Bodroga, Rebecca, M.B.A., Org Perf & Wrk Lrn (2010)
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