College of Arts and Sciences

Interim Dean: Phillip M. Eastman, Ph. D.
Telephone: 383-1414


Philosophy

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 core curriculum which prepares undergraduate students for future lives and careers 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 undergraduate and graduate programs for students specializing in the Arts, Humanities and Sciences, and offers a full array of elective and service courses for students majoring in other schools and colleges.

In research, the College generates and disseminates knowledge through basic and applied research, scholarship, and creative activity, 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, credit and non-credit workshops and special programs, and by a rich diversity of cultural and entertainment events.

Objectives

1. To offer programs of study leading to a baccalaureate degree in the:
   - Arts—Advertising Design, Art, Music, and Theatre Arts;
   - Humanities—English, French, German, Philosophy, Spanish; and

2. To offer programs of study leading to the Masters degree in:
   A. Raptor Biology (Master of Science);
   B. English (Master of Arts);
   C. Geology (Master of Science), in cooperation with Idaho State University;
   D. Geophysics (Master of Science), in cooperation with University of Idaho and Idaho State University;
   E. Performance/Pedagogy (Master of Music);
   F. Secondary Education (Master of Arts or Science), with majors in various departments. See Graduate College, College of Education listed elsewhere in this catalog.

3. To offer undergraduate preparation in pre-Forestry and Wildlife Management, and pre-Architecture.

4. To offer elective and service courses for students majoring in other colleges or schools.

Activities

Departments within the College of Arts and Sciences sponsor a variety of activities that are additions to the traditional curriculum. The English Department is the home of several publishing ventures including the cold-drill, BSU's national award-winning student literary magazine; Ahsahta Press, which publishes poetry by western poets; the Western Writers Series, booklets about the lives and works of western authors; and Poetry in Public Places, posters distributed to several schools and other locations throughout the Northwest.

The Biology Department is affiliated with the World Center for Birds of Prey, a research and breeding center for raptors located near Boise. Boise State University is the host institution for the Raptor Research and Technical Assistance Center.
The Theatre Arts Department is affiliated with the Idaho Shakespeare Festival.

Students can participate in many activities sponsored by the departments in the College, including art exhibits (Art), production of plays both during the academic year and in the summer (Theatre Arts), student recitals and ensemble concerts (Music), and a variety of scientific field trips.

**Minors**

**ART MINOR**
- Survey Western Art AR 101, 102 .......................... 6
- Drawing AR 111 ............................................. 2
- Painting AR 113 ............................................. 2
- Sculpture, Metals, or Ceramics ............................... 2
- Additional credits may be selected from any 100 to 400 level Art course offerings, 3 credits of which must be upper division .......................... 7

**BIOLOGY MINOR**
- General Botany BT 130 ....................................... 4
- Concepts Anatomy & Physiology Z 107 ...................... 1
- Human Anatomy & Physiology Z 111, 112 .................... 3
- General Zoology Z 130 ........................................ 3
- Biology electives at the 200 level or higher with at least one upper division course .................................... 10-14

**CHEMISTRY MINOR**
- College Chemistry C 131, 132, 133, 134 ..................... 9
- Organic Chemistry C 317, 318, 319 .......................... 8
- One of the following pairs of courses .......................... 4-5
- Quantitative Analysis C 211, 212 .............................. 5
- Physical Chemistry C 321, 323 ................................. 1
- Intro to Biochemistry C 431, 432 ............................. 2

**ENGLISH MINOR**
- One writing course numbered 200 or higher ....................... 3
- Linguistics ..................................................... 3
- Survey of American Literature E 271, 272 ..................... 3
- English & Linguistics electives (6 upper division) ........... 9

**FRENCH MINOR**
- Intermediate French F 201-202 ................................ 8
- Advanced French Conversation & Composition F 303 or 304 .... 3
- Civilization & Culture F 376 or 377 .......................... 3
- Upper division French electives ............................... 6

**GERMAN MINOR**
- Intermediate German G 201-202 ................................ 8
- Advanced German Conversation & Composition G 303 or 304 .. 3
- Civilization & Culture G 376 or 377 .......................... 3
- Upper division German electives ............................... 6

**MATHEMATICS MINOR**
- Calculus & Analytical Geom M 204-205-206 OR .......................... 13
- Accelerated Calculus M 211-212 ............................... 10
- At least 9 credits in upper division mathematics (M prefix except for M 493 and 496) to include at least one of the following: .......................... 9
  - Intro Abstract Algebra M 302 ............................... 3
  - Number Theory M 306 ...................................... 2
  - Foundations of Geometry M 311 .............................. 3
  - Foundations of Analysis M 314 .............................. 3
  - Advanced Algebra M 401 ..................................... 3
  - Abstract Algebra M 441 ..................................... 3

**MUSIC MINOR**
- Concert Class MA 010 (two semesters) ......................... 0
- Materials of Music I-II MU 119-120 ............................ 3
- Ear Training I-II MU 121-122 ................................ 2
- Intro to Music MU 133 (AREA I) ............................... 3
- Ensemble ME 1 .............................................. 2
- Choice of 2 semesters of Piano Class (MA 150), Voice Class (MA 180), or Begin Guitar and/or Interim Guitar Class (MA 127, 128) or Private Lessons (MC courses*) in any Instrument or Voice .......................... 2-4
- Music Elective—Upper Division ................................ 4

**PHILOSOPHY MINOR**
- Intro to Philosophy PY 101 ..................................... 3
- Intro to Logic PY 221 ......................................... 3
- Ethics PY 211 .................................................. 3
- Electives from Philosophy courses except PY 489 ............ 9

**PHYSICS MINOR**
- Mechanics, Waves & Heat & Lab PH 211-212 ..................... 5
- Electricity, Magnetism & Optics & Lab PH 213-214 ............ 5
- Intro Modern Physics PH 309-310 ............................. 4
- Modern Physics PH 311-312 .................................. 6
  - One of the following ........................................ 3-4
    - Analog Electronics Lab PH 301 ............................ 4
    - Optics PH 332-333-334 ................................. 7
    - Mechanics PH 341 ........................................ 4
    - Electricity & Magnetism PH 381 ........................... 3
    - Advanced Topics PH 422 .................................. 3
    - Thermal Physics PH 432 .................................. 3

**SPANISH MINOR**
- Intermediate Spanish S 201-202 ................................ 8
- Advanced Spanish Conversation & Composition S 303 or 304 .... 3
- Civilization & Culture S 376 or 377 or 385 ..................... 3
- Upper division Spanish electives ............................... 6

**THEATRE ARTS MINOR**
- Technical Theatre TA 117 ..................................... 4
- Acting I TA 215 .............................................. 3
- Acting II TA 216 ............................................. 3
- Major Production Participation TA 231, 331 .................... 3-4
- World Drama TA 341 or 342 .................................. 3
- Directing TA 401 ............................................. 3

**Bachelor of Arts**
- General University & Basic Core Requirement Credits .......... 51
  - Art Major Requirements ................................. 39
    - Painting and/or Watercolor AR 113, 114, 217, 218 ........ 6
    - Drawing AR 111, 112 .................................... 6
    - Art History .............................................. 9
    - Design AR 105, 106 ...................................... 6
    - Ceramics AR 225 ........................................ 2
    - Sculpture AR 231 ........................................ 3
    - Printmaking AR 209 ....................................... 2
    - Art Metals AR 221 ........................................ 2
  - *Senior Show AR 410 ....................................... 1
  - Senior Seminar AR 498 ....................................... 3

**Degrees Offered**
- BA and BFA in Art Advertising Design
- BA and BFA in Art Education
- BA and BFA in General Art
- Pre-Architecture

**Degree Requirements**

**GENERAL ART**

**Bachelor of Arts**

**General University & Basic Core Requirement Credits**
- 51

**Art Major Requirements**
- Painting and/or Watercolor AR 113, 114, 217, 218 .................. 6
- Drawing AR 111, 112 ........................................ 6
- Art History ................................................. 9
- Design AR 105, 106 ........................................ 6
- Ceramics AR 225 ............................................. 2
- Sculpture AR 231 ............................................. 3
- Printmaking AR 209 .......................................... 2
- Art Metals AR 221 .......................................... 2
- *Senior Show is not required of Art History majors.

**Elective Credits**
- 38

**TOTAL**
- 128

*MC courses are extra fee courses
ART EDUCATION
Bachelor of Arts Program

General University & Basic Core Requirement Credits 51

Art Major Requirements
Painting ........................................ 6
Watercolor ........................................ 4
Drawing ........................................... 6
Basic Design AR 105, 106 ...................... 6
Art History ....................................... 6
Ceramics .......................................... 2
Sculpture .......................................... 2
Printmaking AR 209 ................................ 2
Crafts AR 123 ...................................... 2
Lettering AR 107 ................................... 2
Senior Show AR 410 .............................. 1
Senior Seminar AR 498 ........................... 3

Education Requirements for Qualification Toward State Certification. Refer to the Department of Teacher Education listing in the College of Education for complete information.
Intro Secondary Teach: Classroom Observation TE 172 .................. 1
Foundations of Education TE 201 ................ 3
Educational Technology TE 356.................. 2
Educating Exceptional Secondary Student TE 333 ............... 3
Reading in Content Subject TE 407 ............. 3
Secondary School Methods TE 381 .......... ...... 3
Educational Psychology TE 225 .................. 3
Art Methods in Secondary Schools AR 351 .......... 3
Elementary School Art Methods AR 321 ........ 3
Secondary Student Teaching ................. 10-16

Elective Credits .................................. 30
TOTAL ............................................ 128

NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See Department of Teacher Education listing for more information.

ADVERTISING DESIGN
Bachelor of Arts Program

General University & Basic Core Requirement Credits 51

Art Major Requirements
Advertising Design AR 203, 204, 303 ................ 10
Watercolor and/or Painting .......................... 8
Drawing ............................................ 8
Advertising Illustration AR 361 ....................... 6
Basic Design AR 105, 106 ........................... 6
Lettering-Lettering & Layout AR 107, 108 ......... 4
Art History ......................................... 6
Intro to Printmaking AR 209 ......................... 2
Intro to Creative Photography AR 251 ........... 3
Senior Show AR 410 ................................ 1
Senior Seminar AR 498 .............................. 3

Elective Credits .................................... 22
TOTAL ................................................ 128

NOTE: A minimum of 40 credit hours of a total 128 must be Upper Division.

GENERAL ART
Bachelor of Fine Arts Degree

General University & Core Requirement Credits 32

Art Major Requirements
Painting ............................................ 8
Drawing ............................................ 8
Art History ........................................ 12
Watercolor ........................................ 4
Basic Design AR 105, 106 .......................... 6
Intro to Printmaking AR 209 ....................... 2
Sculpture .......................................... 2
Ceramics .......................................... 2
Art Metals ......................................... 2
Senior Show AR 410 ................................ 3
Senior Seminar AR 498 .............................. 3
Art Electives ..................................... 16

Major Emphasis
A total of 20** credit hours in any Art Field constitute the major requirements and a total of 14 credit hours in a second Art area will constitute the minor emphasis.

**Senior show is not required of Art History majors.

Elective Credits .................................. 30
TOTAL ............................................ 128

** A total of 6 credits, 2 of each in Drawing, Painting, and Design may be applied to the 20 hour major requirement in the area of Watercolor, Ceramics, Sculpture, Printmaking, Art Metals, Photography, and Art History.

ART MINOR

Survey of Western Art AR 101, 102 .................... 6
Basic Design AR 105 ................................ 3
Drawing AR 111 .................................... 2
Painting AR 113 .................................... 2
Sculpture, Metals or Ceramics ....................... 2
Upper Division Art Elective ......................... 3
Art Electives ...................................... 4
TOTAL .............................................. 22

ART EDUCATION
Bachelor of Fine Arts

General University & Core Requirement Credits 32

Art Major Requirements
Painting ............................................ 8
Drawing ............................................ 8
Art History ........................................ 9
Watercolor ........................................ 4
Basic Design AR 105, 106 .......................... 6
Intro to Printmaking AR 209 ....................... 2
Sculpture .......................................... 2
Ceramics .......................................... 2
Art Metals ......................................... 2
Senior Show AR 410 ................................ 2
Senior Seminar AR 498 .............................. 3

Major Emphasis
A total of 14 credit hours from any Art Field will constitute the Major Emphasis.

Education Requirements for Qualifications Toward State Certification
Intro Second Teach: Classroom Observation TE 172 ........................... 1
Foundations of Education TE 201 ................... 3
Educating Exceptional Secondary Student TE 333 ............................... 1
Educational Technology TE 356 ...................... 2
Reading in Content Subject TE 407 .................. 3
Secondary School Methods TE 381 ................ 3
Educational Psychology TE 225 ...................... 3
Secondary School Art Methods AR 351 .......... 3
Elementary School Art Methods AR 321 ........ 3
Secondary School Teaching ....................... 10-16

Elective Credits .................................. 9-15
TOTAL ............................................ 128

NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See Department of Teacher Education listing for more information.

ADVERTISING DESIGN
Bachelor of Fine Arts Degree

General University & Core Requirement Credits 32

Art Major Requirements
Advertising Design AR 203, 204, 303 ................ 10
Painting ............................................ 8
Drawing ............................................ 8
Watercolor ........................................ 4
Basic Design AR 105, 106 .......................... 6
Sculpture, Ceramics, Art Metals ....................... 4
Lettering-Lettering & Layout AR 107, 108 ......... 4
Art History ......................................... 4
Intro Creative Photography AR 251 ................. 3
Intro Printmaking AR 209 ........................... 2
Advertising Illustration AR 361 ..................... 6
Senior Show AR 410 ................................ 1
Senior Seminar AR 498 .............................. 3

Professional Electives ................................ 25
TOTAL ............................................ 128

NOTE: A minimum of 40 credit hours of a total 128 must be Upper Division.
**Recommended Programs**

**ART MAJOR**

**BA General-Painting, Drawing or Art History**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey Western Art AR 101, 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Drawing AR 111, 112</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Painting AR 113, 114</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Basic Design AR 105, 106</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>AREA II - AREA III</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy AR 211</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Ceramics AR 225</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td><strong>Painting AR 215</strong></td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td><strong>Sculpture AR 231</strong></td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Art Metals AR 221</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>AREA I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>AREA III - AREA II</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Upper Division Electives</td>
<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History AR 301</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td><strong>Intro to Printmaking AR 209</strong></td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td><strong>Studio in Painting AR 315</strong></td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>AREA I - Area II</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>AREA III - AREA I</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Senior Seminar AR 498</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Senior Show AR 410</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Studio Drawing AR 411</strong></td>
<td>-</td>
</tr>
<tr>
<td>Upper Division Electives</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

**TOTAL:** 128 credits, including 40 Upper Division Credits.

**ART MAJOR**

**BA Drawing Major or Painting, Art History**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey of Western Art AR 101, 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Drawing AR 111, 112</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Painting AR 113, 114</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Basic Design AR 105, 106</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>AREA I - AREA III</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy - Life Drawing AR 211, 212</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Watercolor AR 217, 218</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Intro to Printmaking AR 209</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Sculpture AR 231</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Art Metals AR 221</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Ceramics AR 225</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td><strong>AREA I Literature - AREA II</strong></td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td><strong>AREA III - AREA I</strong></td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advanced Drawing AR 311</strong></td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Art History AR 301, 302</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Senior Seminar AR 498</strong></td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td><strong>Senior Show AR 410</strong></td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td><strong>Studio Drawing AR 411</strong></td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

**TOTAL:** 128 credits, including 40 Upper Division Credits.

**ART MAJOR**

**BA Sculpture Major or Printmaking, Art Metals, Photography, Ceramics, Watercolor**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey of Western Art AR 101, 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Drawing AR 111, 112</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Painting AR 113, 114</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Basic Design AR 105, 106</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>AREA II - AREA III</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomy - Life Drawing AR 211, 212</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Watercolor AR 217, 218</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Intro to Printmaking AR 209</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Sculpture AR 231, 232</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Art Metals AR 221</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Ceramics AR 225</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td><strong>AREA I Literature - AREA II</strong></td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td><strong>AREA III - AREA I</strong></td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
<td>16</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Studio Sculpture AR 331</strong></td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td><strong>Intro to Printmaking AR 209</strong></td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td><strong>Art History AR 301, 302</strong></td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>17</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Studio Sculpture AR 431</strong></td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td><strong>Senior Show AR 410</strong></td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td><strong>Senior Seminar AR 498</strong></td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division Electives</td>
<td>11</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

**TOTAL:** 128 credits, including 40 Upper Division Credits.

**ART EDUCATION MAJOR**

**Bachelor of Arts**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL:** 128 credits, including 40 Upper Division Credits.
## ART EDUCATION MAJOR

### Bachelor of Fine Arts

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM 1</th>
<th>SEM 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Design AR 105, 106 AREA I-1st-Any Fld</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Lettering AR 107</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Survey Western Art AR 101, 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Drawing AR 111, 112</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Painting AR 113, 114</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>AREA II-2nd Field</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>17</td>
<td>16</td>
</tr>
</tbody>
</table>

### Sophomore Year

- Intro Second Teach: Classroom Observation TE 172
- Found of Education TE 201 AREA II-3rd Fld
- Drawing AR 211
- Watercolor AR 217, 218
- Ceramics AR 225
- Intro to Printmaking AR 209
- AREA I Literature-1st Field
- AREA III-1st & 2nd Field
- AREA II-Any Field

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM 1</th>
<th>SEM 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL</strong></td>
<td>16</td>
<td>15</td>
</tr>
</tbody>
</table>

### Junior Year

- Painting AR 215
- AREA I Literature

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM 1</th>
<th>SEM 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL</strong></td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

### Senior Year

- Senior Seminar AR 498
- Senior Show AR 410
- Crafts AR 123
- Educational Technology TE 356
- Student Teaching
- Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM 1</th>
<th>SEM 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL</strong></td>
<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

**TOTAL: 128 credits, including 40 Upper Division Credits.**

---

## ADVERTISING DESIGN

### Bachelor of Arts

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM 1</th>
<th>SEM 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Design AR 105, 106 AREA I-1st-Any Fld</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Lettering AR 107</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Survey Western Art AR 101, 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Drawing AR 111, 112</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Painting AR 113, 114</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>AREA I Literature</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AREA II-2nd Field</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

### Sophomore Year

- Painting AR 113, 114
- Advertising Design AR 203, 204
- Anatomy AR 211
- Intro Creative Photo AR 251
- Intro Printmaking AR 209
- AREA I Literature
- AREA II
- AREA III
- Elective

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM 1</th>
<th>SEM 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL</strong></td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

### Junior Year

- Painting AR 215
- Studio in Advertising Design AR 303
- Studio in Advertising Illustration AR 361
- AREA I Literature
- AREA II - 3
- AREA III
- Upper Division Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM 1</th>
<th>SEM 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL</strong></td>
<td>14</td>
<td>13</td>
</tr>
</tbody>
</table>

### Senior Year

- Senior Show AR 410
- Senior Seminar AR 498
- Arts AR 217, 218
- Studio in Advertising Illustration AR 361
- AREA I Literature
- AREA II
- AREA III
- Upper Division Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM 1</th>
<th>SEM 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL</strong></td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

**TOTAL: 128 credits, including 40 Upper Division Credits.**

---

## DEPARTMENT OF ART
Electives .............................................. 7
Upper Division Electives ......................... 5 10
TOTAL: 128 credits, including 40 Upper Division Credits.

**PRE-ARCHITECTURAL PROGRAM**

Boise State University offers courses that can be used for a 2 to 2 1/2 year Pre-Architectural program. This program is preparatory and should be transferable to most architectural schools. Some universities offer a degree in Architectural Engineering. If interested in this type of degree the student should follow the Civil Option under the Engineering curriculum.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102 ............... 3</td>
<td>3</td>
</tr>
<tr>
<td>Alg/Trig-Cal/Anal Geom M 111-203 .......... 3</td>
<td>5</td>
</tr>
<tr>
<td>Basic Design AR 105, 106 ..................... 3</td>
<td>3</td>
</tr>
<tr>
<td>Drawing AR 111, 112 ......................... 2</td>
<td>2</td>
</tr>
<tr>
<td>Intro Art/Surv West Art AR 103/AR 101, 102</td>
<td>3</td>
</tr>
<tr>
<td>Architecture Graphic Communication AR 156</td>
<td>3</td>
</tr>
<tr>
<td>Art Elective ........................................ 2</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL: 12 credits, including 2 elective credits.</td>
<td></td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 204-206 .......... 3</td>
<td>3</td>
</tr>
<tr>
<td>History of American Architecture AR 270</td>
<td>3</td>
</tr>
<tr>
<td>History Modern American Architecture AR 271</td>
<td>3</td>
</tr>
<tr>
<td>Materials &amp; Methods of Architecture AR 290</td>
<td>3</td>
</tr>
<tr>
<td>Interior Decoration AR 131 (Optional) .... 2</td>
<td></td>
</tr>
<tr>
<td>Computer Graphics for Artists AR 333 .................. 2</td>
<td></td>
</tr>
<tr>
<td>Digital Computer Programming EN 104</td>
<td>3</td>
</tr>
<tr>
<td>Engineering Measurement EN 216</td>
<td>3</td>
</tr>
</tbody>
</table>

**Course Offerings**

See page 23 for definition of course numbering system

**AR ART**

The Art Department reserves the right to withhold selected student work for the Permanent Collections. Certain Art courses are subject to a lab fee. Several courses may be "repeated" for credit. This should be interpreted, "taken again" for credit, not to raise a D or F grade.

**Lower Division**

**AR 100 BASIC DRAWING AND PAINTING FOR NON-ART MAJORS (0-4-2)(F/S).** One semester course with emphasis on media, techniques, and philosophy designed to acquaint the general college student with the basic fundamentals of drawing and painting.

**AR 101 SURVEY OF WESTERN ART (3-0-3)(F/S).** A historical survey of painting, sculpture, and architecture from Prehistoric Art through the Middle Ages.

**AR 102 SURVEY OF WESTERN ART II (3-0-3)(F/S).** A historical survey of painting, sculpture, and architecture from the Renaissance to the present.

**AR 103 INTRODUCTION TO ART (3-0-3)(F/S).** A one-semester course designed to acquaint the general college student with the aesthetics of painting, sculpture, architecture, and related art forms.

**AR 105 BASIC DESIGN (2-2-3)(AREA I).** A two dimensional theoretical and applied study of the basic design elements underlying all art areas.

**AR 106 BASIC DESIGN (2-2-3)(AREA I).** An introduction to the three dimensional design elements. Emphasis on the theoretical and applied study of the structural organization underlying three dimensional art forms. PREREQ: AR 105 or PR/INST.

**AR 107 LETTERING (0-4-2)(F/S).** A study of lettering techniques and various alphabetical forms; emphasis upon modern styles, spacing and layout.

**AR 108 LETTERING AND LAYOUT (0-4-2)(F/S).** A study of layout typography and lettering techniques used in advertising design, for advertising design majors. Advisable to take AR 107 prior to AR 108.

**AR 111 DRAWING (0-4-2)(F/S).** A study of line, chiaroscuro, space, volume, and perspective, utilizing a variety of media; still life, landscape, plant, animals and other subject matter may be used. Limited enrollment spring semester.

**AR 112 DRAWING (0-4-2)(F/S).** Continuation of AR 111 with an emphasis on more advanced drawing problems. Compositional imaginative, or semi-abstract work may be done, utilizing a variety of subject matter including some figure drawing. PREREQ: AR 111.
AR 232 SCULPTURE (0-4-2)(S). Continued work in a variety of three-dimensional materials with emphasis on the techniques of carving, modeling and mold building.

AR 251 INTRODUCTION TO CREATIVE PHOTOGRAPHY (2-2-3)(F/S). An aesthetic approach to the basic photographic skills of camera operation, film development and enlargement of negatives. All work in black and white. Adjustable camera required.

AR 252 HISTORY OF PHOTOGRAPHY (3-0-3)(F). This course is designed to provide a basic understanding of both the technical and visual history of photography. Through slide presentations, important photographers of the 19th and 20th centuries will be discussed in terms of their role in the development of photography as an art form. Offered even numbered years.

AR 253 ADVANCED ARCHITECTURAL GRAPHICS (1-4-3)(F). Three-dimensional drawing applying various delineation techniques; preliminary presentation techniques and use of color in graphics.

AR 256 BASIC ARCHITECTURAL DESIGN (1-4-3)(S). Introduction to the process of architectural design. Combines basic architectural projects with presentation techniques learned in AR 156 Architectural Graphic Communication or AR 255 Advanced Architectural Graphics. Advisable to take AR 156 or 255 before enrolling in AR 256 Basic Architectural Design.


AR 290 MATERIALS AND METHODS OF ARCHITECTURE (3-0-3)(F/S). This course is designed to enable students to identify construction materials, elements, and systems; to locate theoretical and proprietary information about them and to sketch sections of various construction systems and combinations thereof. At completion, they should be able to select materials based on physical and psychological criteria and design with sensitivity to the appropriate use of various materials.

Upper Division

AR 301 NINETEENTH CENTURY ART HISTORY (3-0-3)(F). A study of important artists and movements from Neoclassicism through Post-Impressionism. Critical writing will be assigned.

AR 302 HISTORY OF TWENTIETH CENTURY MOVEMENT IN ART (3-0-3)(S). An analysis of important European artistic movements up to World War II, including Fauvism, Expressionism, Cubism, Futurism, Constructivism, Dada and Surrealism. Critical writings will be assigned.

AR 303 STUDIO IN ADVERTISING DESIGN (0-6-3)(F/S). Advanced study of the design and preparation of art for reproduction, techniques and studio practices. PREREQ: AR 204 or PERM/INST. May be repeated once for credit.

AR 305 STUDIO IN VISUAL DESIGN (0-6-3)(F). Advanced exploration of two-dimensional or three-dimensional design, continuing with problems in line, form, color, texture, and space. Advisable to take AR 105 and 106 prior to AR 305.

AR 307 STUDIO IN METALSMITHING (0-6-3)(F/S). Advanced study in methods of jewelry making and metalsmithing with special emphasis on raising, die-forming, sheet forming, and mechanical techniques to further develop personal skills in design and craftsmanship. May be repeated for credit. PREREQ: AR 221, 222.

AR 308 ADVANCED WEAVING (0-6-3)(F/S). Continuing development of skills and techniques in weaving will be emphasized through specialized areas of study such as drafting and designing complex weave structures, block theory, multi-layered and three dimensional fiber construction, ikat and warp painting, dyeing with natural and chemical dyes. Taught Intermittent. PREREQ: AR 208 or PERM/INST. (Repeatable for credit.)

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

AR 311 ADVANCED DRAWING (0-6-3)(F). Structural, interpretive, or compositional study from the model or other subject matter, based on individual interests. Model fee. May be repeated once for credit. PREREQ: AR 212.

AR 315 STUDIO IN PAINTING (0-6-3)(F/S). Creative work in representational areas in any media. May be repeated once for credit. PREREQ: AR 215.

AR 317 PAINTING-WATERCOLOR (0-6-3)(F). Advanced work in opaque and transparent media with emphasis on experimental techniques. Advisable to take AR 217 and 218 prior to AR 317.

AR 318 PAINTING-WATERCOLOR (0-6-3)(S). Advanced work in opaque and transparent media with emphasis on experimental techniques. Advisable to take AR 317 prior to AR 318.

AR 319 PORTRAIT AND FIGURE PAINTING (0-6-3)(F/S). Painting from models in realistic or semi-abstract styles based on individual interests. Model fee. May be repeated for credit. PREREQ: AR 219 and Upper Division status.

AR 321 ELEMENTARY SCHOOL ART METHODS (2-2-3)(F). For students expecting to teach in the elementary schools. This course is especially designed to help prospective teachers construct outlines of courses for creative art activities in the elementary grades. Progressive methods and materials conducive to free and spontaneous expression are stressed.

AR 325 STUDIO IN CERAMICS (0-6-3)(F). Advanced study in the materials of ceramics with emphasis on exploration of clays, glazes, and firing in earthenware, stoneware, and porcelain. Individual instruction will be given. PREREQ: AR 225 or 226 or PERM/INST.

AR 326 STUDIO IN CERAMICS (0-6-3)(S). Emphasis on structural studies in hand-building and wheel-thrown works. Various firing methods using earthenware, stoneware, and porcelain will be explored. PREREQ: AR 225 or 226 or PERM/INST.

AR 331 STUDIO IN SCULPTURE (0-6-3)(F/S). Advanced study in the materials and methods of the sculptor with emphasis upon welded steel and metal casting. Advisable to take AR 231 and 232 prior to AR 331. May be repeated once for credit.

AR 333 COMPUTER GRAPHICS FOR ARTISTS (0-6-3)(F/S). Advanced study of graphic techniques; emphasis on the creative approach to picture taking and printing in color. Adjustable camera required. May be repeated for credit. PREREQ: AR 251 or PERM/INST.

AR 345 STUDIO IN CREATIVE PHOTOGRAPHY (2-4-3)(F/S). Advanced study emphasizing techniques and methodology of illustrating finished art for ads. Fundamental approaches to story, product, fashion and decorative illustration with emphasis on building a portfolio. Advisable to take AR 203 and 204 prior to AR 361. May be repeated once for credit.

AR 346 PHOTOGRAPHY: ZONE SYSTEM (2-4-3)(F/S). This course deals with the important relationship that exists between the negative and the print in photography. This course will provide systematic accounting of the numerous variables of personal equipment, procedures, films, developers, enlarging papers, and style. Technique as the clarifier of idea will be stressed. PREREQ: AR 251 or PERM/INST. Offered odd numbered years.

AR 351 SECONDARY SCHOOL ART METHODS (2-2-3)(F). Art education on the junior high school and senior high school levels. Includes current literature in art education, budgeting, curriculum, planning.

AR 361 STUDIO IN ADVERTISING ILLUSTRATION (0-6-3)(F/S). Advanced study emphasizing techniques and methodology of illustrating finished art for ads. Critical writings will be assigned. Advisable to take AR 203 prior to AR 361.


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

AR 410 SENIOR SHOW WORK (0-1-1)(F). An exhibition of art work by graduating Seniors. The course will give students experience in the process of selecting, hanging, and publicizing their art work. Students will be required to supply slide records of their art work, resumes, and if required, art work for the department's permanent collection. PREREQ: Senior Standing. (Pass/Fail).

AR 411 DRAWING STUDIOS (0-6-3)(F/S). Individual problems in drawing. Model fee. May be repeated for credit. PREREQ: AR 311.

AR 415 STUDIO IN PAINTING (0-6-3)(F). Individual problems in painting in any media. Students will participate in one-person senior show projects. May be repeated for credit. PREREQ: AR 315.

AR 417 STUDIO IN PAINTING-WATERCOLOR (0-6-3)(F). Advanced study in selected watercolor media. Advisable to take AR 317 and 318 prior to AR 417. May be repeated for credit.

AR 419 STUDIO IN METALS (0-6-3)(F/S). Continued study in materials and methods (advanced) of jewelry making and metalsmithing as they apply to the creative artist. May be repeated for credit. PREREQ: AR 221, 222, 307.

AR 425 STUDIO IN CERAMICS (0-6-3)(F/S). Continued study in the materials of ceramics with emphasis on the exploration of clays, glazes, and firing as it applies to the creative artist. Advisable to take AR 225 and AR 226 prior to AR 425. Individual instruction will be given. May be repeated for credit.

AR 431 STUDIO IN SCULPTURE (0-6-3)(F/S). Continued study in the materials and methods of the sculptor with emphasis upon welded steel and casting, carving, mixed media, and experimental. Advisable to take two semesters of AR 331 prior to AR 431. May be repeated for credit.

AR 441 CREATIVE PHOTOGRAPHY (2-4-3)(F/S). Individual problems in black and white photography. Advisable to take AR 251 and AR 341. May be repeated for credit.
AR 444 Creative Photography, Color Printing (2-4-3)(F/S). Individual problems in color photography. May be repeated for credit. PREREQ: AR 344 or PERM/INST.

AR 461 Studio in Advertising Illustration (0-6-3)(F/S). A continuing study of illustration with emphasis on development of specialized areas such as airbrush, decorative and special effects, scientific, book, editorial and reportage illustration and media and image expression. The student will work toward completing a professional portfolio. PREREQ: Two semesters of AR 361. May be repeated for credit.

AR 498 Senior Seminar (3-0-3)(F/S). Required reading and written and oral reports relative to the senior art major's area of interest within the visual arts. PREREQ: Senior status.

Department of Biology

Science/Nursing Bldg., Rm. 223 Telephone (208) 385-3262

Chairperson and Associate Professor: James A. Long; Professors: Baker, Bechard, Centanni, Douglas, Fuller, Mccloskey, Rychert, Wicklowl-Howard; Associate Professors: Wyllie; Assistant Professors: Duly, Munger, Ott, Smith.

Degrees Offered
- BS in Biology
- BS in Biology, Secondary Education
- Biology Minor
- MS in Raptor Biology (see Graduate College for program details.)
- Pre-Forestry and Wildlife Management

Degree Requirements

**BIOLOGY MAJOR**

Bachelor of Science

1. General University & Baccalaureate Degree requirements Credits 30
2. Major Requirements Biology Credits 45
   - Biology Core
   - General Botany BT 130
   - General Zoology Z 130
   - Cell Biology B 301
   - Genetics B 343
   - Ecology B 423
3. Morphology - one course
   - Plant Anatomy BT 302
   - Plant Morphology BT 311
   - Comparative Vertebrate Anatomy Z 301
   - Vertebrate Embryology Z 351
   - Vertebrate Histology Z 400
4. Biology Electives to total 45 credits
5. *Biology Electives to total 45 credits* 17
6. 3. Chemistry Credits 14
   - College Chemistry C 131-134
   - Organic Chemistry C 317, 319
7. 4. Mathematics Credits 9
   - Algebra and Trigonometry M 111
   - Four or more credits chosen from the following:
   - Applied Statistics with the Computer M 120
   - Calculus and Analytic Geometry M 204
8. 5. Recommended Electives Credits 30
   - Area I & II Electives
   - Earth Science Electives

**BIOLOGY MINOR**

General Botany BT 130
- One of the following:
  - Human Anatomy & Physiology Z 111, 112
  - General Zoology Z 130
200 level or higher Biology Electives with at least one upper division course.

TOTAL 22

Secondary Education Option - Major Endorsement

1. General University & Baccalaureate Degree Requirements Credits 30
2. Major Requirements Credits
   - Biology Core
   - General Botany BT 130
   - General Zoology Z 130
   - Cell Biology B 301
   - Genetics B 343
   - Ecology B 423
   - Biology Seminar B 498 or 499
   - Morphology - one course
   - Plant Anatomy BT 302
   - Plant Morphology BT 311
   - Comparative Vertebrate Anatomy Z 301
   - Vertebrate Embryology Z 351
   - Vertebrate Histology Z 400
3. Biology Electives to total 30-45 credits 2-17
4. 3. Chemistry Credits 14
   - College Chemistry C 131-134
   - Organic Chemistry C 317, 319
5. 4. Mathematics Credits 9
   - Algebra & Trigonometry M 111
   - Four or more credits chosen from the following:
   - Applied Statistics with the Computer M 120
   - A First Course in Programming CS 122
   - Digital Computer Program CS 124 or EN 104
   - Introduction to Computer Science CS 125
   - Calculus and Analytic Geometry M 204
6. 5. Education Requirements Credits
   - Foundations of Education TE 201
   - Educational Technology TE 356
   - Reading in Content Subjects TE 407
   - Educ. Except Secondary Student TE 333
   - Educational Psychology TE 225
   - Secondary School Methods TE 381
   - Secondary School Science Methods TE 384
   - Secondary School Student Teaching
7. 6. Elective Credits
   - A maximum of 4 credits of independent study and 4 credits of internship (8 credits total) may be counted towards fulfillment of Biology Electives. Internships will be graded Pass/Fail.
   - *A Biology, Secondary Education Option major without a minor requires 45 Biology credits. A Biology, Secondary Education Option major with a minor in another area requires 30 Biology credits. A Minor in Biology requires a minimum of 24 Biology credits. In all instances a minimum of 6 credits must be in Botany and 6 credits in Zoology.
8. Note: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See Department of Teacher Education listing for more information.

Secondary Education Option - Minor Endorsement

1. General University & Baccalaureate Degree Requirements Credits 30
2. Major Requirements Credits
   - Biology Core
   - General Botany BT 130
   - General Zoology Z 130
   - Cell Biology B 301
   - Genetics B 343-344
   - Elective course in Botany
   - Elective course in Zoology
3. Minor Endorsement in Biology Credits
   - General Botany BT 130
   - General Zoology Z 130
   - Cell Biology B 301
   - Genetics B 343-344
   - Elective course in Botany
   - Elective course in Zoology
4. Education Requirements Credits
   - Intro Second Teach: Clsm 201
   - Found of Education TE 201
   - Educational Technology TE 356
   - Reading in Content Subjects TE 407
   - Educ. Except Secondary Student TE 333
   - Educational Psychology TE 225
   - Secondary School Methods TE 381
   - Secondary School Science Methods TE 384
   - Secondary School Student Teaching
5. Electives Credits
   - A maximum of 4 credits of independent study and 4 credits of internship (8 credits total) may be counted towards fulfillment of Biology Electives. Internships will be graded Pass/Fail.
   - *A Biology, Secondary Education Option major without a minor requires 45 Biology credits. A Biology, Secondary Education Option major with a minor in another area requires 30 Biology credits. A Minor in Biology requires a minimum of 24 Biology credits. In all instances a minimum of 6 credits must be in Botany and 6 credits in Zoology.
   - *A maximum of 4 credits of independent study and 4 credits of internship (8 credits total) may be counted towards fulfillment of Biology Electives. Internships will be graded Pass/Fail.
   - *A maximum of 4 credits of independent study and 4 credits of internship (8 credits total) may be counted towards fulfillment of Biology Electives. Internships will be graded Pass/Fail.
Recommended Program

**BIOLOGY MAJOR**
Bachelor of Science Degree

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>General Botany BT 130</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>General Zoology Z 130</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>College Chemistry C 131-134</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics</td>
<td>5</td>
<td>4-5</td>
</tr>
<tr>
<td>TOTALS</td>
<td>16</td>
<td>17-18</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Chemistry C 317, 319</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Area I)</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Area II)</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Other Electives</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>TOTALS</td>
<td>14</td>
<td>15</td>
</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genetics B 343</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Electives (Area I, II)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Biology Electives</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>Other Electives</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>TOTALS</td>
<td>14</td>
<td>14</td>
</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology E 423</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Biology Seminar B 498</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Biology Electives</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>Other Electives</td>
<td>7</td>
<td>9</td>
</tr>
<tr>
<td>TOTALS</td>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>

**BIOLOGY MAJOR**
SECONDARY EDUCATION OPTION
Bachelor of Science Degree

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>General Botany BT 130</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>General Zoology Z 130</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>College Chemistry C 131-134</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics</td>
<td>5</td>
<td>4-5</td>
</tr>
<tr>
<td>TOTALS</td>
<td>16</td>
<td>17-18</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Chemistry C 317, 319</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Electives (Area I)</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Electives (Area II)</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Other Electives</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>Intro Second Teach: Clsm Obs TE 172</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>TOTALS</td>
<td>16</td>
<td>15</td>
</tr>
</tbody>
</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Educational Psychology TE 225</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Secondary School Methods TE 381</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Secondary School Science Methods TE 384</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Area I, II)</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>Genetics B 343</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Biology Electives</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>TOTALS</td>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology Seminar</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Biology Electives</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>Education Courses</td>
<td>4</td>
<td>10-16</td>
</tr>
<tr>
<td>Other Electives</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>TOTALS</td>
<td>13-17</td>
<td>16-22</td>
</tr>
</tbody>
</table>

**Pre-Forestry and Wildlife Management**

This program is designed to satisfy the lower division course work typically completed during sophomore year in a School of Forestry. Students wishing to earn a bachelor's degree in this area of study usually transfer to the University of Idaho School of Forestry for their junior and senior years.

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>General Botany BT 130</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>General Zoology Z 130</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Essentials of Chemistry C 107-110</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>TOTALS</td>
<td>16</td>
<td>18</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Physics PH 101-102</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>General Forestry FS 101</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Systematic Botany BT 305</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Fundamentals of Speech CM 111</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Basic Surveying EN 215</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Digital Computer Programming EN 104</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Principles of Economics EC 205-206</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>TOTALS</td>
<td>13</td>
<td>14</td>
</tr>
</tbody>
</table>

**Course Offerings**

See page 23 for definition of course numbering system.

**Biology**

**Lower Division**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>B 200 CONCEPTS OF BIOLOGY (3-2-4)(F/S)(AREA III)</td>
<td>Basic course for nonmajors. General biological principles and how they relate to man. Brief survey of plant and animal diversity. Emphasis areas include populations, pollution, ecology, genetics, and evolution.</td>
<td></td>
</tr>
<tr>
<td>B 200 MAN AND THE ENVIRONMENT (3-0-3)(F/S)(AREA III)</td>
<td>The impact of biological, economic, and social factors on man's environment are discussed. Participants become aware of important issues and factors involved in environmental decision making.</td>
<td></td>
</tr>
<tr>
<td>B 205 MICROBIOLOGY (3-2-4)(F/S)</td>
<td>A survey of microbial diversity, structure, function, and metabolism; principles of microbial control; host-parasite relationships; immunology; and medically important microorganisms. PREREQ: C 317 and Z 111-112 (or equivalent) or PERM/INST.</td>
<td></td>
</tr>
</tbody>
</table>

**Upper Division**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>B 300 BIOLOGY OF AGING (3-0-3)(S)</td>
<td>Focuses on biological aspects of aging and the major types of anatomical and physiological processes which may impair normal functioning during the aging process. This course is not appropriate for Biology majors and may not be counted toward major requirements. Offered even-numbered years. PREREQ: Upper Division standing and B 100 or Z 107 or Z 111-112.</td>
<td></td>
</tr>
<tr>
<td>B 301 CELL BIOLOGY (3-0-3)(F/S)</td>
<td>Structure and function of prokaryotic and eukaryotic cells, cellular energetics and metabolism, mitochondria and chloroplasts, cell and organelle genetics, and chromosomal aberrations, and medical applications of Cell Biology. One year of college Biology and prior or concurrent enrollment in Organic Chemistry are required.</td>
<td></td>
</tr>
<tr>
<td>B 303 GENERAL BACTERIOLOGY (3-6-3)(F)</td>
<td>A general survey of the field of Bacteriology; techniques, cytology, taxonomy, growth, physiology, ecology, genetics, evolution, control, medical aspects and immunology. PREREQ: C 317, B 301, PERM/INST.</td>
<td></td>
</tr>
<tr>
<td>B 310 PATHOGENIC BACTERIOLOGY (2-6-4)(S)</td>
<td>Medically important bacteria, rickettsiae, 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: B 303, PERM/INST.</td>
<td></td>
</tr>
<tr>
<td>B 343 GENETICS-LECTURE (3-0-3)(F)</td>
<td>A study of the principles of genetics as they relate to living organisms. PREREQ: B 301 or PERM/INST.</td>
<td></td>
</tr>
<tr>
<td>B 344 GENETICS LABORATORY (0-3-1)(F)</td>
<td>A practical course in the techniques of growing and analyzing genetic materials. Drosophila and other organisms will be cultured and analyzed; reports will be submitted. PREREQ: prior or concurrent enrollment in B 343 required.</td>
<td></td>
</tr>
<tr>
<td>B 401-401G ORGANIC EVOLUTION (3-0-3)(S)</td>
<td>Philosophical basis and historical development of evolutionary theory. Detailed examination of genetic variation, mechanisms of evolutionary change, adaptation, specialization, phylogeny. Genetics recommended. Offered even-numbered years. PREREQ: B 301 or PERM/INST.</td>
<td></td>
</tr>
<tr>
<td>B 412-412G GENERAL PARASITOLOGY (2-3-3)(S)</td>
<td>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 practical experience in identification and detection. PREREQ: B 301, PERM/INST.</td>
<td></td>
</tr>
<tr>
<td>B 415-415G APPLIED AND ENVIRONMENTAL MICROBIOLOGY (3-3-4)(S)</td>
<td>Microbial populations and processes in soil and water. Water and food-borne pathogens. Microbiological and biochemical methods of environmental assessment. PREREQ: B 303, PERM/INST.</td>
<td></td>
</tr>
<tr>
<td>B 420-420G IMMUNOLOGY (3-0-3)(S)</td>
<td>A survey of the principles of immunology, host defense systems, the immune response, immune disorders, serology and other related topics. Representative laboratory procedures will be demonstrated. PREREQ: B 303, PERM/INST.</td>
<td></td>
</tr>
<tr>
<td>B 423-423G ECOLOGY (3-3-4)(F/S)</td>
<td>A survey of the physical factors of the environment and their effect of the mode of life and distribution of plants and animals. Environmental and biological interrelationships of organisms will be discussed. Field and laboratory investigations into topics of physical habitat, populations, communities, pollution, etc. Weekend field trips may be taken.</td>
<td></td>
</tr>
</tbody>
</table>
College of Arts and Sciences

PREREQ: BT 130, Z 130, PERM/INST.

B 498, 499 BIOLOGY SEMINAR (1-0-1)(F/S). A review of pertinent literature on selected topics. Restricted to senior Biology majors.

Graduate Courses

See Graduate College section of this catalog for course descriptions.

BT BOTANY

Lower Division

BT 115 MUSHROOMS OF IDAHO (2-0-2)(F). A survey of the fleshly fungi with emphasis on collecting and identifying species of Idaho mushrooms. Edible and poisonous species will be discussed. Weekend field trips arranged.

BT 130 GENERAL BOTANY (3-3-4)(F/S)(AREA III). An introduction to a plant biology which includes the study of cells, genetics, whole plant physiology and functions, ecology, classification, and economic importance.

Upper Division

BT 302 PLANT ANATOMY (3-3-4)(S). A study of the structure and development of vascular plant tissues, regions, and organs. Emphasis will be placed on the Angiosperms. PREREQ: BT 130, B 301, PERM/INST.

BT 305 SYSTEMATIC BOTANY (3-4-4)(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: BT 130, PERM/INST.

BT 311 PLANT MORPHOLOGY (3-4-4)(F). A comparative study of the structure, function, reproduction, and development of major plant groups. Phylogeny, paleobotany, and economic importance of various plant groups will be considered. PREREQ: BT 130, or PERM/INST.

BT 330-330G 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: BT 130, PERM/INST.

BT 401 PLANT PHYSIOLOGY (3-3-4)(F). Emphasis placed on physical and chemical processes of plant body functions. Includes coverage of cell, tissue, and organ functions; mineral requirements, metabolism, water uptake, photosynthesis, soil chemistry, and the alkaloids and glucosides synthesized by plants. BT 302 and PH 101, 102 recommended. Offered odd-numbered years. PREREQ: BT 130, C 317, PERM/INST.

FS FORESTRY

Lower Division


Z ZOOLOGY

Lower Division

Z 107 CONCEPTS OF HUMAN ANATOMY AND PHYSIOLOGY (3-2-4)(F/S). A survey of human structure and function with emphasis on regulatory mechanisms of the body. This is a terminal course and does not satisfy allied health program requirements.

Z 111, 112 HUMAN ANATOMY AND PHYSIOLOGY (3-3-4)(AREA III CORE). A two-semester sequence for students whose career objectives require a thorough study of human anatomy and physiology. Z 107 cannot be substituted for either semester of this sequence. One semester of this sequence cannot be substituted for Z 107. Prior or concurrent enrollment in C 107 is recommended.


Upper Division

Z 301 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: Z 130, PERM/INST.

Z 305-305G ENTOMOLOGY (2-6-4)(F). Biology of insects with emphasis on identification and life cycles for students who have completed one year of college level biology. Laboratory includes field trips to collect and identify local species. Insect collection required. Students should meet with instructor the spring or summer before enrolling. PREREQ: PERM/INST.

Z 307 INVERTEBRATE ZOOLOGY (6-4-3)(S). Morphology, taxonomy, and natural history of the marine invertebrate animals and terrestrial arthropods exclusive of the insects. Offered in alternate years. PREREQ: Z 130 PERM/INST.

Z 341-341G ORNITHOLOGY (2-3-3)(S). Birds as examples of biological principles: classification, identification, ecology, behavior, life histories, distribution, and adaptations of birds. Two weekend field trips. Offered odd-numbered years. PREREQ: Z 130, PERM/INST.

Z 351 VERTEBRATE EMBRYOLOGY (2-6-4)(S). Germ cell development, comparative patterns of cleavage and gastrulation, neurulation and induction, and development of human organ systems. Laboratory studies of frog, chick, and pig development. PREREQ: Z 130 or PERM/INST.

Department of Chemistry

Science-Nursing Building, Room 315 Telephone (208) 385-3963

Chairperson and Professor: Richard Banks; Professors: Carter, Dalton, Ellis, Matjeka, Mercer, Stark; Assistant Professor: Bammel, LeMaster, Schimpf.

Degrees Offered

• BS in Chemistry
• BS in Chemistry, Secondary Education

Department Statement

The Chemistry Department’s goal is to provide degree candidates with a thorough understanding of the fundamentals of chemistry, intertwined with training in up-to-date procedures and state-of-the-art instrumentation.

A BSU graduate with a major in chemistry can by choosing from a variety of courses, be prepared to enter graduate school, medical or other professional school, teach in high school, or work as a chemist in a variety of careers.

The Chemistry curriculum of Boise State University offers an education based upon employment requirements of industry, educational institutions, and government agencies, while emphasizing the individual needs and capabilities of each student. The faculty of the Chemistry Department recognized that students are most successful if their training has prepared them for a specific career field, but also recognizes that a broad background affords the best opportunity for a future career selection.

Boise State University offers two Bachelor of Science degrees in Chemistry. The General Emphasis degree prepares the student for employment as a chemist or for admission to medical school. The Professional Emphasis degree includes additional requirements that better prepare the student for a graduate program in chemistry.

Degree Requirements

<table>
<thead>
<tr>
<th>CHEMISTRY MAJOR</th>
<th>Bachelor of Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Emphasis</td>
<td></td>
</tr>
</tbody>
</table>

1. General University & Baccalaureate Degree Requirements (128 credits total).

<table>
<thead>
<tr>
<th></th>
<th>52</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Requirements</td>
<td></td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>6</td>
</tr>
<tr>
<td>Area I Core</td>
<td>12</td>
</tr>
<tr>
<td>Area II Core</td>
<td>12</td>
</tr>
<tr>
<td>Electives, Lower and Upper Division</td>
<td>22</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemistry</th>
<th>53</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Chemistry C 131-132, 133-134</td>
<td>9</td>
</tr>
<tr>
<td>Quantitative Analysis C 211, 212</td>
<td>4</td>
</tr>
<tr>
<td>Chemical Literature C 280</td>
<td>2</td>
</tr>
</tbody>
</table>
This degree program prepares the student to teach Chemistry in secondary schools.

2. Recommended Electives:
   Foreign Language
   Upper Division Chemistry
   Advanced Topics in Chemistry

CHEMISTRY MAJOR
Bachelor of Science

Professional Emphasis

1. General University & Baccalaureate Degree Requirements (128 credits total).
   General Requirements
   English Composition E 101-102
   Area I Core
   Area II Core
   Electives, Lower and Upper Division

   Chemistry
   College Chemistry C 131, 132, 133, 134
   Quantitative Analysis C 211, 212
   Literature C 280
   Organic Chemistry C 317, 318, 319, 320
   Physical Chemistry C 321, 322, 323, 324
   Advanced Inorganic Chemistry C 401-402
   Instrumental Analysis C 411
   Spectrometric Identification C 440
   Advanced Chemical Preparations Laboratory C 443
   Independent Study C 496
   Chemistry Seminar C 498
   Mathematics M 204, 205, 206, 301, 331
   Physics PH 211, 212, 213, 214
   Computer Science Requirements CS 122 or 124

   General Electives

   TOTAL 21-22

2. Recommended Electives:
   Foreign Language
   Upper Division Mathematics
   Upper Division Physics
   Life Science Courses

CHEMISTRY MAJOR, SECONDARY EDUCATION OPTION
Bachelor of Science Degree

This degree program prepares the student to teach Chemistry in secondary schools.

1. General University & Baccalaureate Degree Requirements (128 credits total).
   General Requirements
   English Composition E 101-102
   Area I Core
   Area II Core
   Electives, Lower and Upper Division

   Chemistry
   College Chemistry C 131, 132, 133, 134
   Quantitative Analysis C 211, 212
   Literature C 280
   Organic Chemistry C 317, 318, 319, 320
   Physical Chemistry C 321, 322, 323, 324
   Advanced Inorganic Chemistry C 401-402
   Instrumental Analysis C 411
   Spectrometric Identification C 440
   Advanced Chemical Preparations Laboratory C 443
   Independent Study C 496
   Chemistry Seminar C 498
   Mathematics M 204, 205, 206, 301, 331
   Physics PH 211, 212, 213, 214
   Computer Science Requirements CS 122 or 124

   General Electives

   TOTAL 21-22

   Mathematics

   College Chemistry C 131-132, 133-134
   Quantitative Analysis C 211, 212
   Chemical Literature C 280
   Organic Chemistry C 317, 318, 319, 320
   Physical Chemistry C 321, 322, 323, 324
   Chemistry Seminar C 498
   Advanced Upper Division Chemistry Courses

   TOTAL 13

   (Completion of Mathematics through M 206)
   Physics Requirements (PH 211-212, 213-214)
   Biology Requirements (BT 130 & Z 130)

   2. Idaho Certification Requirements

   29
Independent Study C 496 ................................. 2 2
Chemistry Seminar C 498 .................................. 1
Area I & II Electives ........................................ 3 -
General Electives* ........................................ 3 6  
Totals .......................................................... 15 14

*Related electives to complement the students chosen emphasis.

CHEMISTRY MAJOR, SECONDARY EDUCATION OPTION
Bachelor of Science Degree

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>College Chemistry C 131, 132-133, 134</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics M 204</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>General Zoology Z 130</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>General Botany BT 130</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Area I or II Electives</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>Totals</td>
<td>17</td>
<td>18</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Chemistry C 317, 319, 318, 320</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics M 205, 206</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Physics I PH 211, 212-213, 214</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Intro Second Teach: Clsm Obs TE 172</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Foundations of Education TE 201</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Totals</td>
<td>18</td>
<td>17</td>
</tr>
</tbody>
</table>

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Literature C 280</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Physical Chemistry C 321, 322, 323, 324</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Quantitative Analysis C 211, 212</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Educational Psychology TE 225</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Reading in Content Subjects TE 407</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Area I or II Electives</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td>0-1</td>
<td>9</td>
</tr>
<tr>
<td>Totals</td>
<td>14-16</td>
<td>17</td>
</tr>
</tbody>
</table>

SENIOR YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division Chemistry Course</td>
<td>3-4</td>
<td>-</td>
</tr>
<tr>
<td>Chemistry Seminar C 498</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Educational Technology TE 356</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Secondary School Methods TE 381</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Secondary School Science Methods TE 384</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Educating Except Second Students TE 333</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Senior High School Student Teaching TE 483</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Area I or II Electives</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>General Electives</td>
<td>0-1</td>
<td>9</td>
</tr>
<tr>
<td>Totals</td>
<td>15-16</td>
<td>14</td>
</tr>
</tbody>
</table>

Students who do not have a Chemistry degree may be certified to teach Chemistry in secondary schools. Refer to the Department of Teacher Education section where minor certification endorsements for teaching areas are listed.

Course Offerings

See page 23 for definition of course numbering system

C CHEMISTRY

CHEMISTRY LABORATORY FEE: A three dollar ($3.00) laboratory fee per course is charged to all students enrolling in a chemistry laboratory.

Lower Division

C 100 CONCEPTS OF CHEMISTRY (3-3-4)(AREA III). A descriptive nonmathematical course designed to acquaint students with the science of Chemistry and the relationship of Chemistry to other fields of study and to modern life. This course cannot serve as a prerequisite to any other Chemistry course, nor will it serve as part of a Chemistry sequence. Students who have received credit for C 109 or C 133 may not receive credit for C 100.

C 107 ESSENTIALS OF CHEMISTRY (3-0-3)(AREA III). The first semester of a one-year sequence course. A thorough study of the fundamentals of Chemistry including atomic and molecular structure, stoichiometry, physical states, and solutions. PREREQ: M 111 or M 108. COREQ: Concurrent enrollment in C 112 is required.

C 108 LABORATORY FOR ESSENTIALS OF CHEMISTRY (0-3-1)(AREA III). The laboratory to accompany C 107. COREQ: Concurrent enrollment in C 107 is required.


C 110 LABORATORY FOR ESSENTIALS OF CHEMISTRY (1-3-2)(S/SU)(AREA III). The laboratory to accompany C 109. One three-hour laboratory and one one-hour
Department of English

Liberal Arts Building, Room 228 Telephone (208) 385-1246

Chairperson and Professor: Carol A. Martin; Director of Graduate Studies and Professor: Dale K. Boyer; Director of Undergraduate Studies and Assistant Professor: Glenn Selander; Professors: Davis, Dayley, Leahy, Lojek, Maguire, Markel, Martin, Sahni, Trusky, Widmayer, Willis, Zirinsky; Associate Professors: Guilford, Lykken, Sanderson, Shirk, Zaerr; Assistant Professors: Ackley, Anderson, Burmaster, Evett, Hadden, King, McGuire, Nickerson, Robbins, Ryder, Uehling, Warner.

Degrees Offered
- BA, English, Liberal Arts
- BA, English, Secondary Education
- BA, English, General Literature emphasis
- BA, English, American Literature emphasis
- BA, English, British Literature emphasis
- BA, English, Linguistics emphasis
- BA, English, World Literature emphasis
- BA, English, Writing emphasis
- MA in English (see Graduate College for details)
- Certificate & Advanced Certificate in Technical Communication (see Academic Enrichment & Special Programs for details)

Department Statement
The major in English has traditionally served to develop skills of imagining, reasoning, and communicating. English majors come to approach matters from a variety of points of view, to recognize patterns of information and ideas from incomplete reports, and to understand other people as well as abstract principles. For these reasons the major in English has provided one of the most successful preparations for professional degrees in law, medicine, and commerce. The department also participates in the university's Studies Abroad Program described on page 37.

Because the major serves students seeking personal development as well as professional training, the department has designed a series of major options to fit student needs. The Secondary Option fulfills Idaho certification requirements and prepares students to teach in school districts around the country. The General Option affords the student the greatest flexibility through limiting departmental requirements. The Liberal Arts emphasis, by requiring preparation in a number of areas, offers the broadest, most complete background in the disciplines.

Degree Requirements
All majors must fulfill general university requirements for the Bachelor of Arts degree.

1. BA, English, Liberal Arts emphasis
   - Specific Courses
     - Survey of British Literature E 240 and E 260 .................................. 6
     - Shakespeare E 345, 346 ............................................................ 3
     - Introduction to Language Studies LI 305 ..................................... 3
     - History of the English Language LI 309 ......................................... 3

2. BA, English, Secondary Education
   - Specific Courses
     - Survey of British Literature E 240, E 260 .................................. 6
     - Shakespeare E 345, 346 ............................................................ 3
     - American Renaissance E 377 ...................................................... 3
     - American Realism E 378 ............................................................ 3
     - Lit of American West E 384 ......................................................... 3
     - Folklore E 390 ............................................................................ 3
     - Senior Seminar E 498 ................................................................. 3
   - Area Requirements
     - Modern British & American Lit E 385, 389, 487 .................................... 3
     - Lower Division Literature E 211, 213, 217, 219, 240 or 260 ........ 9
     - Upper Division electives in Literature or Linguistics ...................... 18

3. BA, English, General Literature emphasis
   - Completion of 54 credits in English or Linguistics excluding E 101, E 102, E 111-H, and E 112-H.
     - Of these credits, 39 must be upper division, including E 498, Senior Seminar.
     - Of the upper division credits, 15 must be in British Literature, excluding E 385, E 389, and E 487.
     - No more than 9 credits may be in special topics courses in English or Linguistics.

4. BA, English, American Literature emphasis
   - Specific courses:
     - Survey of American Lit E 271, 272 ............................................. 6
     - Shakespeare, E 345 or E 346 ....................................................... 3
     - American Renaissance E 377 ...................................................... 3
     - American Realism E 378 ............................................................ 3
     - Lit of American West E 384 ......................................................... 3
     - Folklore E 390 ............................................................................ 3
     - Senior Seminar E 498 ................................................................. 3
   - Area requirements:
     - American Literature E 271, 272, 378, 384 .................................... 3
     - Pre-1800 British Lit E 340, 341, 348, 349, 350, 351, 356, 358, 359 .................................................. 6
     - Upper Division Electives ............................................................... 15
     - Competence in a Foreign Language equivalent to two years of University instruction.
American Political Theory PO 331 ........................................... 3
Cultural Anthropology AN 102 (AREA II) ................................ 3
U.S. History HY 151, 354, 355, 356, 358, or 359 .................... 3

5. BA, English, British Literature emphasis
   • Specific courses:
     Survey of British Literature E 240, 260 ................................ 6
     Shakespeare E 345 or 346 .............................................. 3
     Senior Seminar E 498 ...................................................... 3
   • Area Requirements:
     Pre-1800 Brit Lit courses numbered E 340-359 .................... 12
     Post-1800 Brit Lit courses numbered E 360-369 .................... 6
     Electives in British or American Lit (15 Upper Division) ........ 24
     British History HY 311, 312, 338 or 432 .......................... 3

6. BA, English, Linguistics emphasis
   • Specific courses:
     Intro Language Studies LI 305 ....................................... 3
     Modern English Grammar LI 306 .................................. 3
     Applied English Linguistics LI 307 ................................ 3
     History of English Language LI 309 ................................. 3
     Applied Linguistics in Teaching ESL LI 407 ............... 3
     ESL Internship E 493 ...................................................... 3
     Senior Seminar E 498 ...................................................... 3
   • Area Requirements:
     Old or Middle English Lang or Lit (i.e., E 340) or
     foreign Lit read in original language ................................. 3
     Electives in Lit lower or upper division ................................. 15
     Upper division elect in Lit (12 British Lit) ............................ 15
     One year of a Foreign Language ...................................... 6-8
     A 2nd year of foreign language or one year of a 2nd foreign
     language ........................................................................ 6-8
     Cultural Anthropology, AN 102 (AREA II core) ............. 3

7. BA, English, World Literature emphasis
   • Specific courses:
     Far Eastern Literature E 215 ........................................... 3
     Western World Lit E 230, 235 ........................................... 6
     19th & 20th Cent Continental Lit E 336, 338 ....................... 6
     Medieval Epics & Romance, E 341 ............................ 3
     Shakespeare E 345 or 346 .............................................. 3
     Folklore E 390 ................................................................. 3
     History of Literary Criticism E 393 ................................. 3
     Senior Seminar E 498 ...................................................... 3
   • Area Requirements:
     Lower Division Lit—E 211,213,217,240,260,271 or 272 ........ 6
     English Lit courses from E 340-369 ................................. 9
     Upper Division electives in Lit or Linguistics ................. 9
     World Drama TA 341, 342, or 443 .................................. 3
     History, other than US or British .................................... 6

8. BA, English, Writing emphasis
   • Specific courses:
     Nonfiction Writing E 201 ............................................... 3
     Technical Communication E 202 ..................................... 3
     Advanced Writing E 401 .................................................. 3
     Writing Internship E 493 .................................................. 6
     Senior Seminar E 498 ...................................................... 3
   • Area Requirements:
     Creative Writing E 205,206,305,or 306 ............................ 6
     Additional upper division writing course ......................... 6
     Linguistics LI 305,306,307,or 309 ................................ 6
     Lower Division Lit electives ............................................. 6
     Upper Division Lit electives ............................................ 6
     Additional upper division lit or ling electives .................... 6
     Interdisciplinary electives, CM 473, 474, HY 210 or
     HY 480-498, GO 471, LS 311, PY 335, 408 or as approved
     by English Chair) ............................................................ 6-8

ENGLISH MINOR
One writing course numbered 200 or higher .......................... 3
Linguistics............................................................................. 3
Survey British Literature E 240 or 260 ................................. 3
Survey American Literature E 271 or 272 ......................... 3
English and Linguistics electives (6 upper division) ............... 9
TOTAL 21

Minor Teaching Endorsement in English
Advanced Composition ....................................................... 3
Linguistics ........................................................................... 3

Methods E 301, 381 ............................................................ 3
Survey of American Literature E 271, 272 ......................... 3
Lower Division Literature (To be selected from E 215, 230, 235,
240, 260) ........................................................................ 6
Upper Division Literature .................................................... 6
Successful completion of Writing Proficiency Review (portfolio
of writing submitted to English Department Writing Committee).

Theatre Arts Minor for English Majors
Technical Theatre (basic set & const) TA 117 .............. 4
Technical Theatre (basic set design, paint, light) TA 118 .... 4
Acting TA 215 ................................................................. 3
Major Production Participation TA 331 ......................... 1
One of the following:
Stage Voice TA 233 .......................................................... 2
World Drama, 500 B.C. to 1660 TA 341 ......................... 3
World Drama, 1660 to 1960 TA 342 ................................. 3
Contemporary Theatre TA 435 ........................................ 3
Directing TA 401 ............................................................... 3
One of the following:
Shakespeare: Tragedies and Histories E 345 ........ 3
Shakespeare: Comedies and Romances E 346 ............... 3
Total hours in Theatre Arts Minor for English Major .... 20 or 21

Combined Major, Communication and English
The combined major is designed for students interested in jobs in
business and industry or mass communication. It offers an opportunity
to combine courses in complementary subject areas. Students select an
emphasis in Journalism or in Communication under the combined major.

Refer to the Department of Communication listing in this Catalog for the
specific requirements.

Course Offerings

See page 23 for definition of course numbering system

E ENGLISH

Students who transfer from other schools with qualifying scores on
objective tests equivalent to those administered to Boise State University
freshmen will be required to take only the essay section of the placement
tests. See requirements below for remedial and advanced placement in
English Composition.

Nine credits of Creative Writing may be counted toward fulfillment of
the major requirements.

Lower Division

E 010 DEVELOPMENTAL WRITING (1-2-0). Training in writing and editing
processes. Emphasis on correctness and sentence structure. Attention to
fluency, organization, development, revision. Required if writing sample
demonstrates need or if ACT, SAT, or CPT score is below 20th percentile. Also for
basic review. Successful completion of competency test required.

E 101 ENGLISH COMPOSITION (3-0-3)(Core). Basic skills in writing, including
use of supportive materials, source references, basic patterns of organization,
and standard usage. Successful completion of competency test required. PREREQ: ACT
or SAT percentile score of 20 or above, or English Composition.

E 102 ENGLISH COMPOSITION (3-0-3)(Core). Advanced practice in expository
writing, which may include literary material as a means of teaching critical reading
writing and communnication of complex ideas. Successful completion of
competency test required. PREREQ: E 101 or PERM/CHAIR.

E 111, 112 HONORS COMPOSITION (3-0-3)(Core). Provides superior student
challenge emphasizing individual study and original writing. Introduction to critical
writing and study of ideas through literature. Honors 111 concentrates on lyric
poetry, essays, and short fiction. Honors 112 concentrates on epic poetry, drama
and the novel. Normal prerequisite: SAT or ACT of 80th percentile or above for E
111. Successful completion of competency test required. PREREQ: E 111 or
PERM/CHAIR for E 112.

E 121 ENGLISH AS A SECOND LANGUAGE (5-0-3)(F/S). Special emphasis on
vocabulary development, reading, and writing of skills in written English. For
foreign students with TOEFL scores of 500-550. Graded Pass/Fail.
PREREQ: Admission to BSU, recommendation of Foreign Student Advisor and
PERM/INST.

E 122 COMPOSITION AND READING FOR FOREIGN STUDENTS (5-0-3)(F/S).
Practice in reading and composition, development of special vocabulary skills
related to individual needs, advanced English sentence structure. For Foreign
students with TOEFL scores of 551-575. Graded Pass/Fail. PREREQ: Admission to
BSU, recommendation of Foreign Student Advisor and PERM/INST.

E 123 ADVANCED ENGLISH COMPOSITION FOR FOREIGN STUDENTS
(5-0-3)(F/S). Study of and practice in the principles of formal and informal written
English, principles of the essay and research paper, continuation of vocabulary
Successful completion of E 123 qualifies the student for entrance into E 101. PREREQ: Admission to BSOJ, recommendation of Foreign Student Advisor, and PERM/INST.

E 131 INTRODUCTION TO LITERATURE (3-0-3)(F/S). A study of popular and classic novels, short stories, plays, and poems by notable American, British, and other authors. Students will see film or television versions and hear recorded editions of some of the works. PREREQ: Completion of or concurrent enrollment in E 101 or PERM/CHAIR.

E 201 NONFICTION WRITING (3-0-3)(F). Further development of skills and strategies learned in E 102. Student will study and write nonfiction prose, particularly research and persuasive writing. Writing practice will stress the writer's awareness of his or her own style and the manipulation of stylistic elements. PREREQ: E 102.

E 202 TECHNICAL COMMUNICATION (3-0-3)(F/S). An overview of the principles and applications of technical communication for those students who expect to write on the job. Assignments are related to each student's background and field of interest. Topics include letters, instructions, technical presentations, as well as audience analysis, the writing process, graphics, document design, and the ethics of technical communication. PREREQ: E 102 or PERM/INST.

E 205 POETRY WRITING (3-0-3)(F). Based on evaluation of student's original work. May be repeated for a total of nine credit hours. PREREQ: PERM/INST.

E 206 FICTION WRITING (3-0-3)(S). Introduction to fiction writing with a concentration on descriptive technique. Readings in the short story. May be repeated for a total of nine credit hours.


E 213 AFRO-AMERICAN LITERATURE (3-0-3)(S). The Black experience as reflected in the development of Black American literature. This course relates Afro-American writing to its salient social and cultural conditions. It explores recurrent and characteristic themes, techniques, and genres from slavery to present. Emphasis on Black writing from the 1930s to the present day. PREREQ: E 102.

E 215 FAR EASTERN LITERATURE, IN TRANSLATION (3-0-3)(S)(AREA I). Survey of literature of Far Eastern countries with major emphasis on China, India, and Japan. An introduction to the cultural and religious environment of each country is covered. PREREQ: E 102.


E 220 WESTERN WORLD LITERATURE (3-0-3)(F). Introduction to writings of the great minds in the Western tradition which have shaped our cultural and literary past and present. Reading includes selections from ancient Greece, Imperial Rome, and medieval and Renaissance Europe. PREREQ: E 102.

E 225 WESTERN WORLD LITERATURE (3-0-3)(F)(AREA I). An introduction to the Western literary tradition as it has developed during the last four centuries. Attention will be paid to the way in which the older values and attitudes are challenged by the new spirit of skepticism and rebellion. PREREQ: E 102.

E 240 SURVEY OF BRITISH LITERATURE TO 1790 (3-0-3)(F)(AREA I). Examines the dominant cultural movements and literary forms in England from the middle ages through the 18th century. PREREQ: E 102.

E 250 SURVEY OF BRITISH LITERATURE: 1790 TO PRESENT (3-0-3)(S)(AREA I). Examines the dominant cultural movements and literary forms in England from the middle ages through the 18th century. PREREQ: E 102.

E 271 SURVEY OF AMERICAN LITERATURE: BEGINNINGS TO CIVIL WAR (3-0-3)(F)(AREA I). This course traces the artistic, philosophic, social, scientific, and intellectual influences on American writers and the emergence of an independent American outlook, as seen in the literary works of such authors as Thoreau, Hawthorne, Melville, Emerson, and Whitman. PREREQ: E 102.

E 272 SURVEY OF AMERICAN LITERATURE: CIVIL WAR TO PRESENT (3-0-3)(F)(AREA I). This course traces the continued development of American Literary thought as revealed in the works of such authors as Twain, James, Hemingway, Eliot, and Faulkner. PREREQ: E 102.

E 301 TEACHING ENGLISH COMPOSITION (3-0-3)(F/S). Methods and techniques for teaching English composition in secondary schools, with emphasis on individualization of instruction, student-centered activity, creativity, and integration of composition into all the other aspects of the total English program. Limited to teachers, students with a secondary option and a major or minor in English, or consent of the department chair. PREREQ: Upper Division standing and LI 305, Introduction to Language Studies, or inservice teaching.

E 302 TECHNICAL RHETORIC (3-0-3)(F). An introduction to the rhetoric of technical communication for English majors and others who are considering a career in the field. Topics include the visual rhetoric of graphics and document design, the ethics of technical communication, and the principal rhetorical modes (narration, description, exposition, and argumentation) as they are employed in technical communication. E 102 or PERM/INST.

E 305 ADVANCED POETRY WRITING (3-0-3)(F). PREREQ: E 205 or PERM/INST based on evaluation of student's work. May be repeated for nine credit hours.


E 318 TWENTIETH-CENTURY CONTINENTAL LITERATURE (3-0-3)(F). Twentieth-century philosophical and cultural themes are emphasized in the reading. Includes works by Mann, Mauriac, Kafka, Hesse, Grass and Solzhenitsyn, which examine mythological, existential, religious, and political themes in relation to contemporary human values. PREREQ: E 102 or PERM/CHAIR. Alternate years. Offered 1994/1995.


E 341 MEDIEVAL EPICS AND ROMANCES (3-0-3)(F). Representative English and continental epics and romances, including Beowulf, Sir Gawain and the Green Knight, Chretien de Troyes, Arthurian Romances, The Song of Roland, the Nibelungenlied, The Cid. PREREQ: Three credits of literature or PERM/CHAIR.

E 346 SHAKESPEARE: COMEDIES AND ROMANCES (3-0-3)(F). Representative plays such as The Taming of the Shrew, A Midsummer's Night's Dream, As You Like It, Twelfth Night, and the Tempest. PREREQ: Three credits of literature or PERM/CHAIR.


E 350 SEVENTEENTH CENTURY POETRY AND PROSE (3-0-3)(S). The works of English authors such as Francis Bacon, Ben Jonson, John Donne, George Herbert, Andrew Marvell, Robert Burton, and Thomas Browne, who flourished in the first 60 years of the 17th century. The social, philosophical, and scientific background of this period. PREREQ: Three credits of literature or PERM/CHAIR. Alternate years. Offered 1993/1994.


E 356 BRITISH DRAMA: THE RESTORATION TO THE DECADENT MOVEMENT (3-0-3)(S)(AREA I). A study of Restoration tragedy, the comedy of manners, sentimental comedy, and comic opera; includes playwrights such as Dryden, Rowe, Congreve, Gay, Sheridan, Goldsmith, Gilbert and Sullivan, and Wilde. PREREQ: Three credits of literature or PERM/CHAIR. Alternate years. Offered 1992/1993.


E 359 BRITISH NOVEL: BEGINNINGS THROUGH AUSTEN (3-0-3)(F). An investigation of the novel from its origins through the work of Defoe, Richardson, Fielding, Smollett, Sterne, Austen and others. The emergence of the most popular genre of literature helps us to understand how fiction reflects our assumption about the world around us. PREREQ: Three credits of literature or PERM/CHAIR.

E 360 BRITISH ROMANTIC PROSE AND POETRY (3-0-3)(F). Readings in Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, and others. These Romantics provide freshly imagined patterns of emotional and intellectual response to nature and our place in it. PREREQ: Three credits literature or PERM/CHAIR.

E 365 VICTORIAN POETRY (3-0-3)(S). Readings in Tennyson, Browning, Arnold, and others. Their poems are the sometimes sane, sometimes shocking results of trying to find and keep artistic and moral hope amidst vital but unhealthy times. PREREQ: Three credits literature or PERM/CHAIR.

E 366 VICTORIAN PROSE (3-0-3)(S). Great prose stylists, including Carlyle, Arnold, Newman, Ruskin, and Pater, bring insights to controversy over issues still with us. Their subjects range from industrialism to mysticism, their purposes from amusement to reformation. PREREQ: Three credits literature or PERM/CHAIR. Alternate years. Offered 1992/1993.

Department of English
E 369 BRITISH NOVEL: SCOTT THROUGH HARDY (3-0-3)(S). An investigation of the development of the English novel during the nineteenth century with particular attention to the impact of Victorian thought on the genre and to the emergence of the modern novel. Includes Scott, Dickens, Gaskell, Thackeray, the Brontes, Trollope, Eliot, and Hardy. PREREQ: Three credits of literature or PERM/CHAIR.

E 377 AMERICAN RENAISSANCE (3-0-3)(F). A study in the second generation of the American literary experience when such leading writers as Hawthorne, Melville, Emerson, Thoreau, Poe, and Whitman acted under the various impulses of Puritanism, Romanticism and idealism, created the first universal vision of human experience to appear in American literature. PREREQ: Three credits of literature or PERM/CHAIR.

E 378 AMERICAN REALISM (3-0-3)(F). American literature from the Civil War to World War I. Mark Twain, Stephen Crane, Henry James, W. D. Howells, Kate Chopin, and fellow Realists wrote about the average person in the light of common day. Their works show how American writers were increasingly influenced by science, business, and art. PREREQ: Three credits of literature or PERM/CHAIR.


E 384 LITERATURE OF THE AMERICAN WEST (3-0-3)(F). The literary merits of works by representative Western writers such as Wallace Stegner, Owen Wister, H. L. Davis, John Steinbeck, and Willa Cather. Also discussed are regional values and Western types such as the mountain man, the cowboy, and the pioneer. PREREQ: Three credits of literature or PERM/CHAIR.

E 385 MODERN BRITISH AND AMERICAN FICTION (3-0-3)(F). Designed to acquaint both nonmajors and majors with typical themes, subject matter, and stylistic innovations in British and American fiction since 1900. Reading includes selected novels and short stories by such authors as Cav, Ellison, Faulkner, Gardner, Golding, Hemingway, Joyce, Lawrence, O'Connor, Steinbeck, Welty, and others. PREREQ: Three credits of literature or PERM/CHAIR.

E 389 MODERN BRITISH AND AMERICAN DRAMA (3-0-3)(F). An analysis of the various dynamic confrontations between 20th century audiences and actors arranged by dramatists as far apart in their times, themes, and techniques as Shaw and Steppard, O'Neill, and Osborne. PREREQ: Three credits of literature or PERM/CHAIR.

E 390 FOLKLORE (3-0-3)(F). Study of what folklore is, its written and oral traditions, its different genres. PREREQ: E 102.

E 391 NORTH AMERICAN INDIAN FOLKLORE AND LITERATURE (3-0-3)(F). An examination of traditional Native American world views and belief systems as reflected in oral narratives and written literature. Study topics include aspects of cosmology, religious life, personal round, and life cycle as presented in the oral traditions of specific tribal/cultural areas and in the literary poetry and prose of major creative writers. PREREQ: Three credits lower-division literature.

E 393 HISTORY OF LITERARY CRITICISM (3-0-3)(F). A survey of critical approaches to literature from Plato to the twentieth century. PREREQ: A literature survey or PERM/CHAIR.

E 401 ADVANCED NONFICTION WRITING (3-0-3)(F). Advanced practice in nonfiction genres and study of how writers read and learn from other writers. Experimentation with subject, voice, organization, and style. Students may take the course twice, for a total of 6 credits. PREREQ: E 201.

E 402 ADVANCED TECHNICAL COMMUNICATION (3-0-3)(F). An advanced study of technical communication for those students who are considering a career in the field. Assignments are related to each student's background and field of interest. Topics include in-depth work in technical style and the common kinds of documents produced in business and industry, including proposals, progress reports, completion reports, and manuals. PREREQ: E 202 or E 302 or PERM/INST.

E 403 TECHNICAL EDITING (3-0-3)(F). Explores the fundamentals of editing, enabling students to apply a variety of editing skills to technical materials for specific audiences. Focusses on the role of the editor in organizational settings, basic editorial activities, methods for analyzing, critiquing and revising manuscripts for different audiences, and techniques for successful writer/editor dialogues. Includes techniques for visually and visually quality documents for publication and, if needed, a review of mechanical correctness. PREREQ: E 402 or PERM/INST.

E 412-412G WOMEN WRITERS (3-0-3)(F). Literature by English speaking women, with special attention to cultural contexts, the themes and methods used by women writers, and how women writers have created their own tradition. The course may focus on writings of a particular period. Alternate years. PREREQ: Three credits of literature or PERM/INST.

E 481 LITERATURE FOR USE IN JUNIOR AND SENIOR HIGH SCHOOLS (3-0-3)(F). A literary content course designed for prospective or experienced teachers of secondary school English. Primary emphasis is on critical reading of literature ordinarily used with adolescents in secondary schools. Secondary emphasis is on methods of critical analysis appropriate to secondary students. All genres will be discussed. Both classical and popular authors will be included. PREREQ: E 102, completion of two literature courses.

E 487-487G MODERN BRITISH AND AMERICAN POETRY (3-0-3)(F). A study of the radical changes in Eliot, Pound, Williams, and others made in poetry's traditional aesthetic and thematic concerns early in the century. The course's poetic history is continuing metamorphosis into the present day. PREREQ: Three credits literature or PERM/CHAIR.

E 488-488G METHODS AND THEORIES OF LITERARY CRITICISM AND RHETORIC (3-0-3)(S). Analysis of major literary and rhetorical theories, their methods and their implications. PREREQ: Three credits of upper division literature or PERM/CHAIR.

E 498 SENIOR SEMINAR (3-0-3)(S). Required of all senior English majors. PREREQ: Senior standing or PERM/CHAIR.

HU HUMANITIES

HU 207, 208 INTRODUCTION TO HUMANITIES (3-0-3)(F)(S). The human intellectual and creative heritage as reflected in art, literature, philosophy, and architecture. PREREQ: E 102 or PERM/CHAIR.

LI LINGUISTICS

LI 305 INTRODUCTION TO LANGUAGE STUDIES (3-0-3)(F). A general survey of contemporary language study as it is carried on in the fields of linguistics, anthropology, and psychology, with emphasis on meaning, sounds, words, and sentence formation in English. PREREQ: E 102 or PERM/CHAIR.

LI 306 MODERN ENGLISH GRAMMAR (3-0-3)(F). An approach to modern English grammar based on linguistic principles; will cover word formation and sentence structure, including transformational, structural, and newly developing theories of grammar.

LI 307 APPLIED ENGLISH LINGUISTICS (3-0-3)(F). A survey of applied linguistics with emphasis on theories, concepts, and methods relevant to the teaching of English. Topics include word meaning, language variation, language context, oral and written discourse, writing systems, literature analysis, dictionaries and grammars, bilingualism and language planning, and problems in teaching English as a first and second language. Alternate years. PREREQ: LI 305.

LI 309 HISTORY OF THE ENGLISH LANGUAGE (3-0-3)(F). A study of the periods in the development of English; Indo-European and Germanic backgrounds; development of writing; internal and social forces of change; dialects of English. Concentrated work with written documents in English language history. PREREQ: LI 305 or PERM/CHAIR.

LI 406 PSYCHOLINGUISTICS (3-0-3)(F). The study of language in relation to mind and cognition. Topics include the relationship between language, thought, and memory; language acquisition; language disorders; and the psychological processes involved in speaking, listening, reading, writing, and spelling. PREREQ: LI 305.

LI 407-407G APPLIED LINGUISTICS IN TEACHING ENGLISH AS A SECOND LANGUAGE (3-0-3)(F). 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 remediating the specific problems that confront learners of a second language. PREREQ: LI 305. Alternate years. Offered 1993/1994.

Department of Geosciences

Mathematics-Geology Building, Room 104 Telephone (208) 385-1631

Chairperson and Professor: Paul R. Donaldson; Professors: Bentley, Hollenbaugh, Pelton, Spinosia, Waag, White, Wood; Associate Professors: Snyder; Uol Assistant Professor: Osinsky; Visiting Research Professor: Dougherty, Gillerman, Zollweg.

Degrees Offered

• BS, Geology
• BS, Geophysics
• BS, Earth Science Education, Secondary Education
• MS, Geology: cooperative program with Idaho State University (See Graduate College for details)
• MS, Geophysics (See Graduate College for details)
• MS, Education, Earth Science emphasis (See Graduate College for details)

Special Information for Students

The curriculum leading to the BS degree in Geology is designed for those students who plan a career in Geology or who plan to attend graduate school. The curriculum leading to the BS degree in Earth Science Education is designed to prepare the student to teach Earth Science in secondary schools and to meet the teacher certification requirements for the State of Idaho. The curriculum leading to the BS degree in Geophysics is designed for students who would like a career in Geophysics or who plan to attend graduate school. The curriculum offers a broad background of courses in Geology, Mathematics, Chemistry and Physics to support the Geophysics courses.

The curriculum leading to the MS in Secondary Education, Earth Science emphasis, is designed to provide advanced academic training in the topics of Earth Science to those students pursuing a teaching career. Refer to Graduate College section. For details regarding the Master of Science in Geology and the Master of Science in Geophysics refer to the Graduate College section.
In addition to the courses formally offered in all degree programs, a student may acquire credit for independent study, internship, undergraduate or graduate thesis, or for participation in departmental research projects.

Non-degree course offerings in Geography meet the 15 credit requirement under the 30-15-15 Social Science, Secondary Education Degree Program offered in the Departments of Economics, History, Political Science, and Sociology, Anthropology and Psychology.

### Degree Requirements

#### GEOLOGY MAJOR

**Bachelor of Science Degree Requirements**

1. **General University & BS Degree Requirements**  
   Note: AREA III is fulfilled by the major requirements below.  
   Recommended Core Courses:
   - Area I, Foreign Language (201 or higher)
   - Area II, Economics, Geography

2. **Major Requirements:**
   - Geology and Geophysics
   - Physical Geology GO 101
   - Historical Geology GO 103
   - Mineralogy GO 221
   - Field Geology GO 280
   - Petrology GO 323
   - Petrography GO 324
   - Sedimentation & Stratigraphy GO 310
   - Geomorphology GO 313
   - Structural Geology GO 314
   - Invertebrate Paleontology GO 351
   - Geophysics GP 300 or GP 301
   - Summer Field Camp GO 482
   - Summer Field Camp Report GO 483
   - Senior Seminar GO 498 or 499
   - Geology Electives

3. **Electives**
   - College Chemistry C 131, 132, 133, 134
   - Physics
     - Option I: (Recommended for students planning graduate studies)
       - Mechanics, Waves & Heat & Lab PH 211, 212
       - Elect, Magnit & Optics & Lab (PH 213, 214)*
     - Option II: General Physics PH 101-102
     - Mathematics M 204-205* or M 211-212
     - (Mathematics through M 206 is recommended for students planning graduate studies.)
   - Upper Division Geology courses

4. **Senior Seminar** GO 498 or 499
5. **Graduation**

---

#### EARTH SCIENCE EDUCATION MAJOR

**Bachelor of Science Degree Requirements**

1. **General University & BS degree requirements:**  
   - General University & BS Degree Requirements
   - Note: AREA III is filled by the major requirements below.

2. **Major Requirements:**
   - Physical Geology GO 101
   - Historical Geology GO 103
   - Intro to Descriptive Astronomy PH 105
   - Intro to Oceanography GO 201
   - Intro to Meteorology GG 213
   - Mineralogy GO 221
   - Geomorphology GO 313
   - Petrology GO 323
   - Petrography GO 324
   - Senior Seminar GO 498 or 499
   - Upper Division Geology courses
   - Geophysical App. of Dig. Sig. Proc. GP 420
   - Electrical Methods GP 320
   - Geophysics Field Camp GP 340
   - Exploration Well Logging GP 410
   - Geophysical App. of Dig. Sig. Proc. GP 420

3. **Electives**

---

#### RECOMMENDED PROGRAMS

**GEOLOGY MAJOR**

**FRESHMAN YEAR**
- English Composition E 101-102  
- Physical Earth Science GO 101  
- Historical Geology GO 103  
- General Physics PH 101-102  
- Geology Electives

**SOPHOMORE YEAR**
- Cartography GG 220 or alternate  
- Mineralogy GO 221  
- Petrology GO 323  
- Petrography GO 324  
- Historical Geology GO 103  
- Geophysics Field Camp GP 340  
- Geophysical App. of Dig. Sig. Proc. GP 420  
- Geophysical App. of Dig. Sig. Proc. GP 420

**JUNIOR YEAR**
- Structural Geology GO 314  
- Sedimentation & Stratigraphy GO 310  
- Geomorphology GO 313  
- Geophysics GP 300 or GP 301  
- Electives AREA I & II

**SUMMER OF JUNIOR YEAR**
- Summer Field Camp GO 482-483
## College of Arts and Sciences

### SENIOR YEAR
- Senior Seminar GO 498 or 499 .................................................. 1
- AREA I and II Electives .................................................. 6 - 3
- Free Electives at least 3 cr of upper division ............................................................................. 3 -
- Invertebrate Paleontology GO 351 .................................................. 3 -
- Upper Division Geology & Geophysics Electives .................................................. 4 - 4

### EARTH SCIENCE EDUCATION MAJOR

#### FRESHMAN YEAR
<table>
<thead>
<tr>
<th>1st</th>
<th>SEM</th>
<th>2nd</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Botany BT 130</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Zoology Z 140</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Geology GO 101</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Historical Geology GO 1103</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics M 111</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### SOPHOMORE YEAR
- College Chemistry C 131-132, 133-134 .................................................................................. 4 - 5
- Mineralogy GO 221 .................................................................................................................. 4 -
- Petrology & Petrography GO 323-324 .................................................................................. 4 -
- Foundations of Education TE 201 .......................................................................................... 3 -
- Intro to Secondary Education TE 172 .................................................................................. 1 -
- Intro to Geology GG 213 ........................................................................................................ 3 -
- AREA I Core classes ............................................................................................................. 6 - 6

#### JUNIOR YEAR
- General Physics PH 101-102 ...................................................................................................... 4 - 4
- Geomorphology GO 313 ........................................................................................................... 3 -
- Intro to Oceanography GO 201 .............................................................................................. 3 -
- Secondary School Methods TE 381 ........................................................................................ 3 -
- Secondary School Science Methods TE 384 .......................................................................... 3 -
- Upper Division Earth Science Elective ................................................................................... 3 -
- Educational Psychology TE 225 .............................................................................................. 3 -
- Reading in Content Subject TE 401 ....................................................................................... 3 -

#### SENIOR YEAR
- AREA II Core Classes ............................................................................................................. 6
- Secondary Student Teaching .................................................................................................. 10-16
- Intro Descriptive Astronomy PH 105 .................................................................................... 4 -
- Geology Seminar GO 498, 499 ............................................................................................... 1 -
- Educ Except Secondary Student TE 333 ................................................................................. 1 -
- Electives .................................................................................................................................. 0-5 - 0-3
- AREA I Electives ..................................................................................................................... 14-17

### GEOPHYSICS MAJOR

#### FRESHMAN YEAR
<table>
<thead>
<tr>
<th>1st</th>
<th>SEM</th>
<th>2nd</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-E 102</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Physical Geology GO 101</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Historical Geology GO 103</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Chemistry C 131</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Chemistry I Lab C 132</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Chemistry II C 133</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus &amp; Analytic Geometry M 204</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital Computer Programming EN 104 or CS 124</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AREA I</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### SOPHOMORE YEAR
- Mineralogy GO 221 .................................................................................................................. 4 -
- Field Geology GO 283 3 cr of upper division ........................................................................ 3 -
- Calculus & Analytic Geometry M 205 .................................................................................... 4 -
- Petrology GO 323 ................................................................................................................... 3 -
- Petrography GO 324 ................................................................................................................ 1 -
- Calculus & Analytic Geometry M 206 .................................................................................... 4 -
- Mechanics, Waves and Heat & Lab PH 211, 212 .................................................................... 5 -
- ELECTIVE .................................................................................................................................. 3 -

#### JUNIOR YEAR
- Differential Equations M 331 .................................................................................................... 3 -
- Electricity, Magnetism and Optics & Lab PH 213, 214 .......................................................... 5 -
- Grav-Mag Methods GP 310 .................................................................................................... 3 -
- Sed & Strat GO 310 .................................................................................................................. 4 -
- Structural Geology GO 314 ...................................................................................................... 4 -
- Vector Calculus M 320 ............................................................................................................ 2 -
- Electrical Methods GP 320 ..................................................................................................... 3 -
- Seismic Methods GP 330 ........................................................................................................ 3 -

### SUMMER OF JUNIOR YEAR
- Geophysics Field Camp GP 340 .............................................................................................. 6 -

### SENIOR YEAR
- Linear Systems & Signal Proc CS 426 .................................................................................... 4 -
- Elec & Mag (advanced) PH 381 ........................................................................................... 3 -
- Exploration Well Logging GP 410 ........................................................................................ 3 -
- Geophys App of Dig Sig Proc GP 420 .................................................................................... 3 -
- AREA I & II Elective ................................................................................................................ 6 - 6

### Course Offerings

See page 23 for definition of course numbering system.

#### GG GEOGRAPHY

**Lower Division**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GG 101 INTRODUCTION TO GEOGRAPHY (3-0-3)(F/S)(AREA II)</td>
<td>11</td>
</tr>
<tr>
<td>GG 102 CULTURAL GEOGRAPHY (3-0-3)(F/S)(AREA II)</td>
<td>11</td>
</tr>
<tr>
<td>GG 201 THE USE AND INTERPRETATION OF MAPS (3-0-3)(F/S)</td>
<td>11</td>
</tr>
<tr>
<td>GG 210 SURVEY OF WORLD REGIONAL GEOGRAPHY (3-0-3)(F/S)</td>
<td>11</td>
</tr>
<tr>
<td>GG 213 INTRODUCTION TO METEOROLOGY (3-0-3)(F/S)</td>
<td>11</td>
</tr>
<tr>
<td>GG 220 CARTOGRAPHY (1-6-3)(F/S)</td>
<td>11</td>
</tr>
<tr>
<td>GG 221 GEOGRAPHY OF IDAHO AND THE PACIFIC NORTHWEST (3-0-3)(F/S)</td>
<td>11</td>
</tr>
</tbody>
</table>

**Upper Division**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GG 301 HISTORICAL GEOGRAPHY OF THE UNITED STATES (3-0-3)(F/S)</td>
<td>11</td>
</tr>
<tr>
<td>GG 311 WORLD ECONOMIC GEOGRAPHY (3-0-3)(F/S)</td>
<td>11</td>
</tr>
<tr>
<td>GG 321 CONSERVATION OF NATURAL RESOURCES (3-0-3)(F/S)</td>
<td>11</td>
</tr>
<tr>
<td>GG 331 CLIMATOLOGY (3-0-3)(F/S)</td>
<td>11</td>
</tr>
<tr>
<td>GG 340 GEOGRAPHY OF THE SLAVIC STATES (3-0-3)(F/S)</td>
<td>11</td>
</tr>
<tr>
<td>GG 350 REGIONAL GEOGRAPHY OF EUROPE (3-0-3)(F/S)</td>
<td>11</td>
</tr>
</tbody>
</table>
GO GEOLOGY

Lower Division

GO 100 FUNDAMENTALS OF GEOLOGY (3-2-4)(AREA III)(Field trip required).
An introduction to the principles of Physical and Historical Geology. Topics include weathering, erosion, glaciation, volcanism, earthquakes, rocks, minerals, maps, the origin of the earth's crust and its physical and biological evolution. Open to all students except those with previous credit in Geology, or Earth Science majors, and those non-science majors who plan an eight-hour sequence in Geology.

GO 101 PHYSICAL GEOLOGY (3-2-4)(AREA III), (Field trip required). A study of the origin and development of the earth, its materials and processes. Topics include weathering, erosion, vulcanism, earthquakes, landslides and plate tectonics. Rocks, minerals and topographic and geologic maps are studied in the laboratory.

GO 103 HISTORICAL GEOLOGY (3-3-4)(AREA III) (Field trip required). A study of the origin and progressive development of the earth and evolution of plants and animals. The geologic history of the earth is treated in considerable detail. Prehistoric life and fossil study as well as field trips to fossil beds are included in the laboratory work. PREREQ: GO 101.

GO 105 ROCKS AND MINERALS (2-3-1)(F/S). A systematic study of rocks and minerals, with emphasis on physical characteristics and methods of identification. Field trips and laboratory sessions are part of the course for those taking the class for credit. PREREQ: High school chemistry or PERMINS.

GO 111 GEOLOGY OF IODAHO AND THE PACIFIC NORTHWEST (3-0-3)(Field trip required). A study of the geologic setting and history of Idaho and its immediate surroundings. Includes structural features, stratigraphic and geologic history. Open to all students except those with previous credit in Geology, or Earth Science majors, and those non-science majors who plan an eight-hour sequence in Geology.

GO 201 INTRODUCTION TO OCEANOGRAPHY (3-0-3)(F). A general study of the physical oceanography, including the physics of the oceans, circulation patterns, waves, tides, and the sediments and life forms found in the various ocean environments. PREREQ: GO 103.

GO 221 MINERALOGY (2-4-4)(F). A study of minerals including crystal forms, atomic structure, chemical properties, and environments of origin. The laboratory meets twice each week. The study includes the properties of minerals by examining their physical properties in hand specimen and utilizing their optical properties in oil mounts and thin sections. Several exercises involve use of the x-ray diffractometer. PREREQ: GO 101 or COREQ: C 131.

GO 232 OPTICAL MINERALOGY (1-3-2)(F). The theory and application of the polarizing microscope to the examination of minerals in immersion media and in thin sections. The study of crystal optics and the use of the petrographic microscope for the identification and quantitative examination of minerals. COREQ: GO 221.

GO 280 FIELD GEOLOGY (1-6-3)(F)(Field trip required). Techniques of field mapping to solve geologic problems. Field exercises will use topographic maps, stereo-pair air photos, Brunton compass, transit, and plane-table alidade for mapping. A detailed geologic map and written geologic report will be made, interpreting one area of moderate complexity and regional significance. Two-weekend field trips required. Required field work on Friday afternoons. PREREQ: GO 101, 103, E 102, COREQ: M 111.

Upper Division

GO 305 SOIL MECHANICS LAB (0-3-1)(S). Laboratory and field exercises on standard testing methods of engineering properties of soils: Atterberg limits, sieve and hydrometer analysis, engineering classification of soil and rock, compaction tests, field test for density, percolation rate and soil strength. PREREQ: M 111 or equivalent. (Field Trip Required.)

GO 310 SEDIMENTATION AND STRATIGRAPHY (3-1-4)(S). The study of the transportation and deposition of sediments and their depositional environments. Emphasis is placed on the identification and correlation of sedimentary facies and on basin analysis. PREREQ: GO 103, 321.

GO 313 GEOMORPHOLOGY (2-3-3)(F)(Field trips required). A study of the features of the earth's surface such as mountains, valleys, beaches, and rivers and the process by which they are formed and changed. Laboratory work consists of studies and experiments. PREREQ: GO 103, E 102.

GO 314 STRUCTURAL GEOLOGY (3-3-4)(S)(Field trip required). Fundamentals of descriptive, kinematic and dynamic analysis of structures within the Earth's crust, and a theoretical treatment of stress and strain. Laboratory problems in orthogonal and stereographic methods, and solution of structural problems using geologic maps and cross-sections. PREREQ: M 111.

GO 323 Petrology (2-3-3)(S). A study of igneous, sedimentary, and metamorphic rocks with emphasis on the techniques of their classification, physical and chemical constraints on their origin, and their tectonic associations. PREREQ: GO 221, COREQ: GO 324.

GO 324 Petrography (0-3-1)(S). A systematic study of igneous, sedimentary, and metamorphic rocks in hand specimen and thin section. The polarizing microscope is used extensively. The origins and classifications of the minerals and rocks are interpreted through examination of their mineral assemblages, textures, fabrics and alteration. PREREQ: GO 221. COREQ: GO 323.

GO 351 INVERTEBRATE PALEONTOLOGY (2-3-3)(F)(Field trips required). The study of the invertebrate phyla represented in the fossil record. Special emphasis is placed on hardpart morphology, anatomy, phylogeny and taxonomy of geologically important groups. Laboratory work based on standard collections. Special project. PREREQ: GO 103.

GO 370 ENVIRONMENTAL GEOLOGY (3-0-3)(S)(Alternate Year). A study of the ways that geological materials and processes constrain human interaction with the natural environment. This includes the availability and use of geological resources, dealing with water disposal and pollution, and minimizing the impact of geological hazards. PREREQ: An introductory course in geography or geology.

GO 403-403G ENGINEERING GEOLOGY (2-3-3)(S)(Field trip required). Introduction to soil and rock mechanics. Slope stability analysis. Surface and subsurface exploration of sites. Geological and geophysical considerations for construction projects. Current implications for geology to engineering projects. Alternate years. PREREQ: GO 280, PH 102 or PH 211, GO 323 or PERMINS.

GO 412-412G HYDROGEOLOGY (3-0-3)(S)(Field trip required). The study of subsurface water and its relationship to surface water, the hydrologic cycle and the physical properties of aquifer systems. Flow nets and flow through porous and fractured media. Methods of determination of aquifer characteristics and performance, and groundwater modeling. PREREQ: GO 310, 314.

GO 414 ADVANCED STRUCTURAL GEOLOGY (2-3-3)(F)(Alternate years)(Field trip required). A study of the geometric properties of deformed rocks, their measurement and analysis. Course will emphasize structural analysis of folded and faulted rocks and the philosophy and methodology of systematically gathering, evaluating, and presenting data pertinent to exploration and development discussions. Study will include review and comparison of tectonic styles of deformation of different geologic provinces throughout North America. PREREQ: GO 314.

GO 421 ORE DEPOSITS (2-3-3)(F)(Field trips required). Genesis, structure, associations and classification of mineral deposits. Discussion of modern theories of ore deposition, origin, and migration of ore-bearing fluids, and the processes of alteration, and secondary enrichment, controls of ore occurrence and the economic of exploration, development, and use of ores. Laboratory work consists of detailed studies of ore deposits and reflected-light microscopy will be used to supplement hand-specimen study. PREREQ: GO 323 or PERMINS.

GO 431-431G PETROLEUM GEOLOGY (2-3-3)(F)(Field trips)(Alternate years). A study of the nature and origin of petroleum, the geologic conditions that determine its migration, accumulation and distribution, and methods and techniques for prospecting and developing petroleum fields. PREREQ: GO 311, 314.

GO 450-450G GEOLOGY OF NATIONAL PARKS (3-0-3)(S). A systematic study of geologic materials, structures, processes and landforms in the National Parks. The course is structured by regional geology and emphasizes geological knowledge as a key to greater appreciation and understanding of these scenic areas. PREREQ: GO 103. (Offered odd years.)

GO 451-451G PRINCIPLES OF SOIL SCIENCE (3-3-0)(F/S). 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: GO 171 or equivalent. Background in Geology and Chemistry.

GO 460-460G VOLCANOLOGY (2-0-2)(F)(Field trip)(Alternate years). A study of volcanic processes and the deposits of volcanic eruptions. An in-depth review of the generation, rise and eruption of magmas and of the types of vent structures produced. Field and petrographic characteristics of various types of volcanic deposits, as well as the tectonic settings in which they were formed, will be emphasized. An independent project pertaining to volcanoes or volcanic rocks will be required of all students taking the course for graduate credit. PREREQ: GO 323.

GO 471-471G REGIONAL FIELD STUDY (1, 2, or 3 CR)(F/S/SU). Field trips and field exercises to study geology of selected localities in North America. Review of pertinent literature and maps, recording of geologic observations and preparation of a comprehensive report on the geology of the areas visited. PREREQ: GO 103 or PERMINS.

GO 482 GEOLOGY SUMMER FIELD CAMP (0-0-4)(SU). The study of geology in its natural environment, the field. Emphasis is upon geologic mapping, the collection and logging of data to solve geologic field problems, mapping on aerial photographs and topographic base. Student should expect to be in the field 8-10 hours per day, 6 days per week for 4 weeks. Students working toward a professional degree in geology (Bachelor of Science at BSU must take COREQ: GO 483).

GO 483 GEOLOGY SUMMER FIELD CAMP REPORT (0-0-2)(SU). A comprehensive geologic report, map and cross-section based upon mapping experiences at summer field camp. Map, report and cross-section must be of professional quality. COREQ: GO 482.

GO 493 INTERNSHIP (4-6 credits).

GO 495 SENIOR THESIS (4-6 credits). Field study involving an original investigation in geology or geophysics, carried out independently, but supervised by one or more faculty members. Problem must be well-stated and method of study designed to give a conclusive result. Project may be substituted for GO 480 upon approval of a written proposal by a committee of three department faculty members. PREREQ: Senior standing.

GO 498, 499 GEOLOGY SEMINAR (1-0-1). Research project based on field and/or laboratory studies and reports of geologic report preparation and oral presentations. PREREQ: Geology, Geophysics or Earth Science Education major.
The Department of Mathematics offers three Bachelor's degree options:

- Anderson, Eastman, Hausrath, Hughes, Juola, Kerr, Lamet, Maloof, Mech, Griffin, Jarratt, Kenny;
- teacher to an understanding of the nature of science—both as subject matter and as geophysical data. Geophysical applications of convolution, fast-Fourier transform Math-Geology, Building, Room 202 Telephone (208) 385-1172 communicating scientific ideas, effective modes of instruction and evaluation, and seismic reflection data, potential field maps, and earthquake seismograms. Computer laboratory exercises. PREREQ: CS 426.

**GP GEOPHYSICS**

<table>
<thead>
<tr>
<th>Upper Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>GP 300 PHYSICS OF THE EARTH (3-0-3)(F). The course will include a discussion of the earth's gravity, magnetism, electricity, seismicity, heat and radioactivity and the significance of these properties in understanding the complexities of the earth. Alternate years. PREREQ: PH 102.</td>
</tr>
<tr>
<td>GP 301 INTRODUCTION TO APPLIED GEOPHYSICS (3-0-3)(F). A survey of surface based geophysics methods, including elementary theory, basic field practice, computation fundamentals, interpretation techniques and economic considerations of seismic, gravimetric, magnetic, and electrical techniques. Applicability of various techniques to exploration geology (economic and petroleum), engineering geology and groundwater geology will be stressed. Alternate years. PREREQ: PH 102, PH 201.</td>
</tr>
<tr>
<td>GP 310-310G GRAVIMETRIC AND MAGNETIC METHODS (3-0-3)(F). Basic potential field theory, instrumentation, reduction of observed data, data methods of data interpretation. Application to petroleum and mineral exploration, geotechnical and engineering investigations. PREREQ: GO 101; must be concurrently taking or have taken PH 213, PH 214.</td>
</tr>
<tr>
<td>GP 430-430G GEOPHYSICAL MODELS IN GEOPHYSICS (3-0-3)(S). Examination of useful mathematical methods in geophysics including; statistical analysis of aeromagnetic anomalies, the Dirichlet problem and continuation of potential fields, wave equation migration in reflection seismology, formulation of geotomography in terms of the Radon transform. Emphasis is on problem solving and the development of skills in applied mathematics. PREREQ: M 331.</td>
</tr>
<tr>
<td><strong>GS GENERAL SCIENCE</strong></td>
</tr>
<tr>
<td>GS 305 TEACHING SCIENCE IN THE SECONDARY SCHOOL (3-0-3)(S). Alternate years. A course designed to introduce the prospective secondary school science teacher to an understanding of the nature of science—both as subject matter and as processes of scientific inquiry. Special emphasis is placed on problems of communicating scientific ideas, effective modes of instruction and evaluation, and curricular materials for secondary school science teaching.</td>
</tr>
</tbody>
</table>

**Department of Mathematics**

Math-Geology Building, Room 202 Telephone (208) 385-1172

Chairperson and Associate Professor: Stephen Grantham; Professors: R. Anderson, Eastman, Haukshath, Hughes, Juola, Kerr, Lamer, Maloof, Mech, Sulanke, Takeda, Ward, Young; Associate Professors: Ayers, Ferguson, Griffin, Jarratt, Kenny; Assistant Professors: M. Anderson, Bartosynski, Feldman, Holms, Schepers.

**Degrees Offered**

- BS in Computer Science
- BA or BS in Mathematics
- BA or BS in Mathematics, Secondary Education option
- MS in Education, Mathematics emphasis: see Graduate College for further details.

**Department Statement**

The Department of Mathematics offers three Bachelor's degree options:

- Computer Science, Mathematics, Mathematics with Secondary Education option, along with a Master's degree program for junior and senior high school teachers.

A student's course of study can be tailored to suit a particular interest in pure mathematics, applied mathematics, computer science, mathematics teaching, software engineering, statistics or operations research.

**Degree Requirements**

**COMPUTER SCIENCE**

**Bachelor of Science Degree**

1. General University Requirements for BS majors.
2. Required BSLU Computer Science courses (31 credits):
   - A. Intro Computer Science I CS 125
   - B. Intro Computer Science II CS 127
   - C. Low-Level Programming CS 223
   - D. Data Structures & Algorithms CS 242
   - E. Operating Systems CS 353
   - F. Programming Languages CS 354
   - G. Programming Language Translation CS 451
   - H. Theory of Computation CS 461
   - I. Software Engineering CS 471
3. One Computer Science course from:
   - A. Intro Computer Graphics CS 341
   - B. Database Theory CS 410
   - C. Network Protocols & Programming CS 525
4. Required Mathematics courses (17-19 credits):
   - A. Discrete & Found Math M 156
   - B. M 204-205...
   - C. Fund of Statistics M 361
5. Probability & Statistics M 431-432
6. One Mathematics course from:
   - A. Linear Algebra M 301
   - B. Differential Equations M 331
   - C. Numerical Analysis M 346
   - D. Combinatorics M 445
6. Required Computer Engineering (through UI/Boise): (7 credits)
   - A. Digital Computer Fund CE 340
   - B. Digital Computer Lab CE 344
   - C. Computer Organizations CE 441
7. A year's sequence in a laboratory science: (9-10 credits)
   - A. College Chemistry & Lab C 131-132
   - B. College Chemistry & Lab C 133-134
   - C. Mechanics, Waves & Heat PH 211-212
   - D. Electricity, Magnetism & Optics PH 213-214
8. Two additional quantitative courses (6-10 credits)
   - A. Any physical or life science course for majors, or any other course which stresses quantitative methods. Each choice is subject to approval by the student's advisor, but a list of pre-approved courses is available from the department.

**MATHEMATICS MAJOR**

**Bachelor of Arts or Bachelor of Science Degree**

1. University requirements for BA or BS Degree.
2. Mathematics/CS Requirements: Lower Division
   - A. M 156 Discrete and Foundational Mathematics...
   - B. M 204-M 205-M 206 or M 211-212 Calculus...
   - C. CS 125 Intro Computer Science...
3. Upper Division Mathematics—27 credits including:
   - A. Linear Algebra M 301
   - B. One or more selections in at least one of the following groups
     1) Introduction to Algebra M 302
     2) Foundations of Analysis M 314
     3) Fundamentals of Statistics M 361
   - C. Probability & Statistics M 431-432
4. Number Theory M 306
5. Abstract Algebra M 441
6. Combinatorics M 445
7. Linear Programming M 456
8. Theory of Functions of a Complex Variable M 406
9. Numerical Analysis M 340
10. Differential Equations M 331
11. Advanced Calculus M 401

**Bachelor of Arts Degree**

Upper Division Mathematics - 27 credits including:

- A. Linear Algebra M 301
- B. One or more selections in at least one of the following groups
  1) Introduction to Algebra M 302
  2) Foundations of Analysis M 314
  3) Fundamentals of Statistics M 361
- C. Probability & Statistics M 431-432

**Bachelor of Science Degree**

Upper Division Mathematics - 27 credits including:

- A. Linear Algebra M 301
- B. One or more selections in at least one of the following groups
  1) Introduction to Algebra M 302
  2) Foundations of Analysis M 314
  3) Fundamentals of Statistics M 361
- C. Probability & Statistics M 431-432

**Bachelor of Arts Degree**

Upper Division Mathematics - 27 credits including:

- A. Linear Algebra M 301
- B. One or more selections in at least one of the following groups
  1) Introduction to Algebra M 302
  2) Foundations of Analysis M 314
  3) Fundamentals of Statistics M 361
- C. Probability & Statistics M 431-432

**Bachelor of Science Degree**

Upper Division Mathematics - 27 credits including:

- A. Linear Algebra M 301
- B. One or more selections in at least one of the following groups
  1) Introduction to Algebra M 302
  2) Foundations of Analysis M 314
  3) Fundamentals of Statistics M 361
- C. Probability & Statistics M 431-432
Intro to Topology M 411 .......................... 3

C. One of the following sequences:
1) Advanced Calculus M 401-402 .......................... 6
2) Fourier Series & Boundary Value Problems M 421 .......................... 3
Linear Programming M 456 .......................... 4
3) Probability & Statistics M 431-432 .......................... 6
4) Abstract Algebra M 441-442 .......................... 6
D. And a 400-level course (numbered below M 490) in addition to those in the sequence selected.

All upper division mathematics courses numbered below M 490 count toward the requirement of 27 upper division mathematics credits. No more than 4 credits of the combined total of credits earned for courses numbered M 490 through M 499 can be used toward the 27 credits of upper division mathematics requirements.

**MATHEMATICS, SECONDARY EDUCATION OPTION**

**Bachelor of Science or Bachelor of Arts Degree**

1. **University Requirements for BS or BA Degree**
2. **Mathematics/CS Requirements:**
   A. Intro to Computer Science I CS 125 .......................... 3
   B. Discrete and Foundational Mathematics M 156 .......................... 4
   C. Calculus through M 205 or M 212 .......................... 9-10
   D. Linear Algebra: M 301 .......................... 4
   E. At least one of:
      1) Intro to Abstract Algebra M 302 .......................... 3
      2) Number Theory M 306 .......................... 3
   F. Foundations of Geometry M 311 .......................... 3
   G. Foundations of Analysis M 314 .......................... 3
   H. Statistics M 361 or both M 431-432 .......................... 4-6
   I. Mathematical Modeling M 441 .......................... 4
   J. Mathematics in Secondary Schools M 490 .......................... 3
   3. Either 45 semester hours of Mathematics or 30 semester hours of Mathematics and an approved minor-certification area outside of Mathematics. (See page 104).


**Suggested Programs**

**NOTE:** These are only suggested programs. Not all courses are required.

**COMPUTER SCIENCE**

This option is aimed at preparing students to apply their computer and mathematics training to problem analysis and to the design, testing, debugging and documentation of software systems.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102 or E 111-112</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Discrete &amp; Found Mathematics M 156</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Intro Computer Science I CS 125</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Intro Computer Science I CS 127</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Discrete &amp; Found Mathematics M 156</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Intro Computer Science I CS 125</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Area I or II Electives</td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Systems CS 353</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Programming Languages CS 354</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Database Theory CS 410</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Computer Organization CS 442</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Software Engineering CS 471</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Area I or II</td>
<td>6</td>
<td>9</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combinatorics M 445</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Theory of Computation CS 461</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Probability &amp; Statistics M 431-432</td>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>Intro Computer Science I CS 125</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Area I and Area II Electives</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations of Analysis M 314</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Probability &amp; Statistics M 431-432</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Differential Equations M 331</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Abstract Algebra M 441</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Area I or II</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Calculus M 401-402 or Adv Calculus M 401-402</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Probability &amp; Statistics M 431-432</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Combinatorics M 445</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Foundations of Geometry M 311</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Linear Programming M 456</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Senior Seminar M 498</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102 or E 111-112</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Calculus M 204-205</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Discrete &amp; Found Mathematics M 156</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Intro Computer Science I CS 125</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Area I or II Electives</td>
<td>3</td>
<td>6</td>
</tr>
</tbody>
</table>
Upper Division

CS 341 INTRODUCTION TO COMPUTER GRAPHICS (3-0-3)(S). The mathematics and programming techniques of computer graphics, including line drawing, presentation graphics, two- and three-dimensional transformations, hidden line and surface removal, clipping. PREREQ: M 206 or M 212 and CS 125.

CS 353 OPERATING SYSTEMS (3-0-3)(F). File systems and buffer caching algorithms. Memory management. Process structure, control and scheduling algorithms. Interprocess communication techniques. PREREQ: CS 223 and CS 242 or PERM/INST.

CS 354 PROGRAMMING LANGUAGES (4-0-4)(F). A comparison of current languages (such as FORTRAN, ICON, LISP, ADA), their programming and design. Syntax and semantics. Information binding, strings, arithmetic, input/output. Recursion, extensibility. PREREQ: CS 127 or PERM/INST.

CS 410 DATABASE THEORY (4-0-4)(S). A study of the theoretical foundations of database management systems. Design and implementation of alternatives for various database models, including, but not limited to, hierarchical, network and relational models. Comparison of the reliability, security and integrity of various database systems. Implementation of a simple system. PREREQ: CS 358 or PERM/INST.

CS 426 LINEAR SYSTEMS AND SIGNAL PROCESSING (4-0-4)(F). Introduction to linear systems and Fourier analysis of continuous and discrete signals. Examples and applications will be drawn from the physical, biological, and social sciences. PREREQ: CS 358 or PERM/INST.

CS 451 PROGRAMMING LANGUAGE TRANSLATION (4-0-4)(F). Assembler language programming, theory and practice of formal language translation, experience with compiler construction tools under UNIX. Students work on significant projects. PREREQ: CS 224 and EN 104 or PERM/INST.

CS 461 INTRODUCTION TO THE THEORY OF COMPUTATION (3-0-3)(F). Grammars, automata, Turing machines, decidability and complexity, language hierarchies, normal forms, NP completeness, and reducibilities. Applications will be drawn from various areas of Computer Science. PREREQ: CS 358 or PERM/INST.

CS 471 SOFTWARE ENGINEERING (3-0-3)(S). 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 424 or PERM/INST.

M MATHEMATICS

Lower Division

M 012 ARITHMETIC REVIEW (2-0-0)(F,S). A review course for those who have forgotten how to add, subtract, multiply, and divide using whole numbers, fractions, decimals, percents and signed numbers. Applications include measures of weight, area and volume.

M 020 ELEMENTARY ALGEBRA (3-0-0). A refresher course covering fundamental operations, linear equations and inequalities, exponents, polynomials, factoring, and the quadratic formula. Designed to bring the student to the level of proficiency required for M 100, 103, 105, or 108. PREREQ: Satisfactory score on mathematics placement examination.

M 100 MATHEMATICS FOR LIBERAL ARTS STUDENTS (4-0-4)(F,S)(AREA III). Designed for liberal arts students. Emphasis is on the nature of mathematical knowledge, its meaning, methodology, and use. Generally topics will be selected from the elementary materials in set theory, logic, number theory, algebra, geometry, probability, statistics, graph theory. PREREQ: Satisfactory score on mathematics placement examination.

M 103 STRUCTURE OF ARITHMETIC FOR TEACHERS (3-2-4)(F). The study of number systems from whole numbers through the reals: numeration, number operations, algorithms, and properties. The course includes a two-hour laboratory each week which makes use of physical models appropriate to the content of the course. PREREQ: High school geometry and a satisfactory score on the mathematics placement exam.

M 104 GEOMETRY AND PROBABILITY FOR TEACHERS (3-2-4)(F). Probability, geometric concepts and principles, measurement, and topics selected from the study of number systems. PREREQ: M 103.

M 105 MATHEMATICS FOR BUSINESS DECISIONS (4-0-4)(AREA III). Matrices, systems of linear equations, graphing, linear programming, discrete probability. PREREQ: Satisfactory score on mathematics placement examination.


M 108 INTERMEDIATE ALGEBRA (4-0-4). Intermediate algebra with plane trigonometry. PREREQ: Satisfactory score on mathematics placement examination.

M 111 ALGEBRA AND TRIGONOMETRY (5-0-5)(AREA III). Equations and inequalities, systems of linear equations or inequalities, functions and their inverses, exponential and logarithmic functions, graphing, sequences, mathematical induction, binomial theorem, basic theory of equations, trigonometry of triangles, circular functions, inverse trigonometric functions, trigonometric identities, solution to trigonometric equations, and De Moivre’s theorem. PREREQ: Satisfactory score on mathematics placement examination.

M 120 APPLIED STATISTICS WITH THE COMPUTER (4-0-4)(S). Precalculus treatment of probability and statistics. Emphasis on concepts and applications rather
than on proofs. Use of available computer statistics packages to handle computations. PREREQ: M 108 or M 111.

M 156 DISCRETE AND FOUNDATIONAL MATHEMATICS (4-0-4VI/S). Designed to prepare the student for both computer science and upper division mathematics. Discrete topics include elementary number theory and modular arithmetic, fundamental principles of combinatorial enumeration, and basic concepts of graph theory. Foundational topics include propositional and predicate logic, the nature of proof, mathematical induction, functions and relations. PREREQ: M 111 or PERM/INST.


M 206 CALCULUS AND ANALYTIC GEOMETRY (4-0-4)(AREA III). Three-dimensional analytic geometry and introduction to vector algebra and calculus of vector valued functions. Partial differentiation and multiple integration. PREREQ: M 205.

M 211 ACCELERATED CALCULUS (5-0-5)(AREA III). Analytic geometry, functions, limits. Differentiation and integration with applications, transcendental functions, methods of integration. M 211-212 is an accelerated version of the three semester sequence M 204-205-206. The student must have a strong high school background or have completed either M 106 or 111 with a grade of A.


M 225 INTERMEDIATE APPLIED PROGRAMMING (2-0-2). Intermediate FORTRAN. See PH 225. Credit cannot be obtained for both PH 225 and M 225.

M 301 LINEAR ALGEBRA (4-0-4VI/S). Matrix algebra, determinants, vector spaces and linear transformations. PREREQ: M 206 or 212, or both M 205 and M 156.

M 302 INTRODUCTION TO ABSTRACT ALGEBRA (3-0-3)(S). Sets, groups, integral domains, rings and fields. PREREQ: M 156, and M 205 or M 212.

M 306 NUMBER THEORY (3-0-3)(F). Diophantine equations, residues, quadratic reciprocity and continued fractions. PREREQ: M 156, and M 205 or M 212.

M 311 FOUNDATIONS OF GEOMETRY (3-0-3)(S). Euclidean, non-euclidean, and projective geometries from an axiomatic point of view. PREREQ: M 156, and M 205 or M 212.

M 312 COMBINATORIAL GEOMETRY (3-0-3). Study of curves and surfaces in Euclidean spaces, maps, networks, topological equivalence of figures, topological spaces and metric spaces. PREREQ: M 205 or M 212. Odd-numbered years.

M 314 FOUNDATIONS OF ANALYSIS (3-0-3)(S). Logic, axiomatics, sequences, foundations of calculus, structure of the real numbers. PREREQ: M 156, and M 205 or M 212.

M 320 VECTOR CALCULUS (2-0-2)(F). Vector valued functions of one or several variables, line and surface integrals, Green's Theorem, Stokes's Theorem, and the Divergence Theorem. PREREQ: M 206 or 212.

M 331 DIFFERENTIAL EQUATIONS (3-0-3)(F). Theory of ordinary differential equations with applications to the physical sciences and engineering. PREREQ: M 205 or 212.

M 340 NUMERICAL ANALYSIS (4-0-4)(S). The application of numerical methods to the interpretation and analysis of data, solution of equations, general iterative methods, approximation of functions, error analysis. PREREQ: M 206 or M 212 and a working knowledge of BASIC, FORTRAN OR PASCAL.

M 361 FUNDAMENTALS OF STATISTICS (4-0-4)(F). Discrete probability, random variables, distributions, central limit theorem, descriptive statistics, regression and correlation, tests of hypotheses, design of experiments and sampling surveys. PREREQ: One of M 106, 205, 212.

M 401-402 ADVANCED CALCULUS (3-0-3). The real number system, continuity, functions of several variables, partial differentiation, multiple integrals, line and surface integrals, theory of integration, and infinite series. PREREQ: M 314 for M 401; M 401 for M 402. This is a two-semester sequence with M 401 offered in the fall of odd-numbered years, followed by M 402 in the spring of even-numbered years.


M 431-431G PROBABILITY AND STATISTICS (3-0-3)(S). Discrete and continuous random variables, conditional probability, expectation, moment generating functions, central limit theorem. PREREQ: M 206 or 212.


M 441-442 ABSTRACT ALGEBRA (3-0-3). Group theory, homomorphism theorems, Sylow theorems, ring theory, ideal theory, field theory, field extensions, and Galois groups. PREREQ: M 301, 302 for M 441; M 441 for M 442. This is a two-semester sequence with M 441 offered in the fall of even-numbered years, followed by M 442 in the spring of odd-numbered years.


M 464 MATHEMATICAL MODELING (3-0-3)(F). Introduction to mathematical modeling through case studies. Deterministic and probabilistic models. Optimization. Examples will drawn from the physical, biological, and social sciences. PREREQ: M 361 or PERM/INST.

M 490 MATHEMATICS IN SECONDARY SCHOOLS (3-0-3)(F). Objectives, content and methods of secondary school mathematics programs. PREREQ: Six hours of Mathematics completed at or above the 300 level.

Department of Modern Languages

Education Building, Room 331 Phone (208) 385-3956

Chairperson and Professor: Steven Loughrin-Sacco; Professors: Jocums, Widmayer; Associate Professor: Robertson.

Degrees Offered
- BA in French
- BA in French, Secondary Education
- BA in German
- BA in German, Secondary Education
- BA in Spanish
- BA in Spanish, Secondary Education

Department Statement

The study of languages gives students a sound foundation in the liberal arts. Graduates with language backgrounds possess a resource for continuing intellectual growth and personal fulfillment, a passport for moving easily within the world community and its diverse cultures, and a practical tool for earning a living.

Programs in the Department of Modern Languages concentrate on the acquisition of language and a knowledge of the culture that the language expresses. The Department offers baccalaureate degrees in French, German, and Spanish, as well as basic instruction in other languages such as Russian, Japanese, Basque, and Italian.

Special encouragement is given to students who wish to pursue a minor emphasis in modern language to support a major taken outside the department. With the changing population of the United States and the growing interdependence of the international community, career opportunities are expanding rapidly for graduates who know a second language. Second language competency has become highly desirable in teaching, government and social services, diplomacy, law and medicine, mass communications, science and technology, and international trade and marketing. The programs in modern languages have the latitude and flexibility to fit nearly any career goal.

The Department encourages students who wish to acquire proficiency at a "professional" or "near-native" level to spend time in the country whose language they are studying. Programs available through the Office of Studies Abroad give students a chance to master a language and learn more about the culture and customs, often while studying at foreign universities and living with local families.

FRENCH MAJOR
Bachelor of Arts

1. To begin the program for the BA in French, the student must
demonstrate competency in French equivalent to the completion of elementary (F 101-102) and intermediate (F 201-202) French — 16 credit hours. Competency must be demonstrated by course work or placement/challenge procedures.

2. The program has a minimum of 36 credit hours of upper division work including FL 331; 30 credit hours must be in French, including FL 410, and 12 credit hours of these 30 credits must be on the 400 level.

3. The candidate must successfully complete one Senior Seminar.

4. The program must be developed in consultation with the major advisors and the department chairperson.

5. The candidate must demonstrate his or her level of language competency in French on the Modern Language Association or equivalent examination during the last semester in the program.

FRENCH, SECONDARY EDUCATION
Bachelor of Arts

In addition to meeting the requirements for the BA in French, the candidate for a teaching certificate must also complete the following:

1. Requirements as indicated in the Department of Teacher Education listing in this catalog.

2. From among the courses provided to complete 30 credit hours in French, the candidate must include 6 credit hours of Advanced Conversation and Composition and 6 credit hours of Culture and Civilization.

3. The candidate must successfully complete the Modern Language Methods course, TE 383, and Applied Linguistics for the Modern Language Teacher, FL 410.

GERMAN MAJOR
Bachelor of Arts

1. To begin the program for the BA in German, the student must demonstrate competency in German equivalent to the completion of elementary (G 101-102) and intermediate (G 201-202) German — 16 credit hours. Competency must be demonstrated by course work or placement/challenge procedures.

2. The program has a minimum of 36 credit hours of upper division work including FL 331; 30 credit hours must be in German, including FL 410, and 12 credit hours of these 30 credits must be on the 400 level.

3. The candidate must successfully complete one Senior Seminar.

4. The program must be developed in consultation with the major advisors and the department chairperson.

5. The candidate must demonstrate his or her level of language competency in German on the Modern Language Association or equivalent examination during the last semester in the program.

SPANISH, SECONDARY EDUCATION
Bachelor of Arts

In addition to meeting the requirements for the BA in Spanish, the candidate for a teaching certificate must also complete the following:

1. Requirements as indicated in the Department of Teacher Education listing in this catalog.

2. From among the courses provided to complete 30 credit hours in Spanish, the candidate must include 6 credit hours of Advanced Conversation and Composition and 6 credit hours of Culture and Civilization.

3. The candidate must successfully complete the Modern Language Methods course, TE 383, and Applied Linguistics for the Modern Language Teacher, FL 410.

4. The candidate must also take, in addition to the Language and Methods course, TE 383, and Applied Linguistics for the Modern Language Teacher, FL 410.

5. The candidate must demonstrate his or her level of language competency in Spanish on the Modern Language Association or equivalent examination during the last semester in the program.

6. The candidate must also take, in addition to the Language and Methods course, TE 383, and Applied Linguistics for the Modern Language Teacher, FL 410.

Course Offerings

See page 23 for definition of course numbering system

Placement Examinations: To ensure that students with language abilities in French, German, and Spanish enroll in the appropriate level of course work, placement examinations are given at the beginning of Fall, Spring, and Summer Sessions. Specific time and place are listed in the academic calendar in the class time schedule.

Language Resource Center: State of the art, interactive lab equipment is available to assist students in their language studies. Most 100- and 200-level language courses require conversation practice in the Language Resource Center, for which students pay an additional laboratory fee.

Petitions for Language Credit: Once a student enrolls in and successfully completes a language course beyond the 101 level with a grade of "C" or higher, he or she may petition to receive credit for all courses prerequisite to the level successfully completed.

BQ BASQUE

Lower Division

BQ 101-102 ELEMENTARY BASQUE (4-1-4)(F/S). These courses begin the development of speaking, listening, reading, and writing the unified language known as Euskera Batua, but dialectical forms used by native speakers will also be explained. Conducted in Basque, the first semester of the course emphasizes vocabulary building with greater emphasis on grammar in the second semester.

FL FOREIGN LANGUAGE

Upper Division

FL 331 INTRODUCTION TO LITERARY STUDIES (3-0-3)(F/S). A study of the theories and methods of literary analysis, explication, interpretation, and criticism. Readings will be primarily in English and will be drawn from major authors and genres in a variety of modern languages. PREREQ: F 102, G 102, or S 102 or equivalent as determined by placement examination and consultation.

FL 410 APPLIED LINGUISTICS FOR THE MODERN LANGUAGE TEACHER (3-0-3)(F/S). Application of linguistic theory and concepts to foreign language teaching and learning practices. Analysis of general and language-specific problems encountered in instruction. PREREQ: LI 305 and minimum of six credits upper division language or PERM/INST.
F FRENCH

Lower Division

F 101-102 ELEMENTARY FRENCH (4-1-4)(F/S). These two courses provide the opportunity to develop functional competency in understanding, reading, writing and speaking French. Students will gain cultural and literary selections and compose essays in French. Format of the course: classroom instruction, conversation lab and practice in the language laboratory. Students who have had more than one year of high school French or its equivalent may not enroll in F 101 for credit except by PERM/DEPT.

F 101-P - 102-P PROGRAMMED ELEMENTARY FRENCH (V-Y-4)(F/S). A self-pace, taped programmed course which provides for practice in pronunciation, reading, writing, grammar analysis and conversation. One period of conversation practice per week required.

F 201-202 INTERMEDIATE FRENCH (4-1-4)(F/S). The self-paced, taped programmed course provides for practice in pronunciation, reading, writing, grammar analysis and conversation. One period of conversation practice per week required.

F 202 or equivalent as determined by placement examination and consultation. Alternate years.

G 304 ADVANCED GERMAN CONVERSATION AND COMPOSITION (3-0-3)(F/S). Students will meet four times a week, there will be extended written assignments. PREREQ: G 202 or equivalent as determined by placement examination and consultation. Alternate years.

G 376 GERMAN CULTURE AND CIVILIZATION (3-0-3)(F/S). German civilization from prehistoric times through the 18th century. Special attention paid to contributions of Germany, Austria, and Switzerland to Western civilization. Class conducted in German. PREREQ: G 202 or equivalent as determined by placement examination and consultation. Alternate years.

G 415 GERMAN LITERATURE OF THE ENLIGHTENMENT AND "STORM AND STRESS" (3-0-3)(F/S). Essays, plays, fictional prose and poetry marking the intellectual ferment of the Enlightenment and the "Storm and Stress." Selections from Gotthold, Herder, Klopstock, Lichtenberg, Kant, Herder, Lessing, J.M.R. Lenz, the early Goethe and Schiller, etc. PREREQ: FL 331 or PERM/INST. Alternate years.

G 425 CLASSICAL AND ROMANTIC GERMAN LITERATURE (1700-1830) (3-0-3)(F/S). Readings from the classical and Romantic periods in their general literary and historical context. Selections from Goethe, Schiller, Holderlin, Kleist, Jean Paul, Tieck, Friedrich Schlegel, Chamisso, Brentano, etc. PREREQ: FL 331 or PERM/INST. Alternate years.

G 435 NINETEENTH-CENTURY GERMAN LITERATURE (3-0-3)(F/S). Selections from a wide cross-section of 19th-Century German literature: Buchner, the "Young Germans," Grillparzer, Hebbel, Goetheil, Keller, Stifter, Storm, C.F. Meyer and others. PREREQ: FL 331 or PERM/INST. Alternate years.

G 445 MODERN GERMAN LITERATURE (3-0-3)(F/S). Trends and writers from the turn of the century, through the Weimar Republic, to the collapse of the Third Reich: Naturalism, Impressionism, Expressionism, Neue Sachlichkeit, Blut und Boden Literature and, Exile Literature. PREREQ: FL 331 or PERM/INST. Alternate years.

G 455 CONTEMPORARY GERMAN LITERATURE (3-0-3)(F/S). Selections will be taken from the authors, essayists, dramatists and poets who have appeared on the scene since 1945 treating the war and post-war experience, and the human condition in the contemporary world. Austrian, Swiss and German writers. PREREQ: FL 331 or PERM/INST. Alternate years.

G 465 EARLY GERMAN LITERATURE: 1150-1720 (3-0-3)(F/S). Survey: Middle Ages, Renaissance, Reformation, Baroque. Selections from heroic and courtly epics. Minnesongs, moral tales and plays, religious pamphleteering, chapbooks, FaroMacht plays; Angelus Silesius, Gryphius, Grimmelshausen, etc. PREREQ: FL 331 or PERM/INST. Alternate years.

G 475 THE GERMAN-SPEAKING WORLD TODAY (3-0-3)(F/S). An in-depth analysis of contemporary non-literary events in the German-speaking world. Discussion includes educational systems, science and theatre, arts and music, economic and business life, social and political structure, and recreation. PREREQ: G 376 or 377 or PERM/INST. Alternate years.

G 498 SENIOR SEMINAR (3-0-3)(F/S). Required of all German majors. Individual research into an area of interest originating in the seminar. The research culminates in a paper to be presented to the seminar. PREREQ: Senior standing or PERM/INST.

JP JAPANESE

Lower Division

JP 101-102 ELEMENTARY JAPANESE (4-1-4)(F/S). The skills of speaking, listening, reading and writing Japanese are developed, initially emphasizing oral skills. Conducted in Japanese, the course also integrates the written language, introducing katakana, hiragana, and a limited number of Chinese characters, used in context.

R RUSSIAN

Lower Division

R 101-102 ELEMENTARY RUSSIAN (4-1-4)(F/S). This course is designed to develop the beginning student's abilities in understanding, speaking, reading, and writing Russian. Class conducted in Russian. Alternate years.

R 201-202 INTERMEDIATE RUSSIAN (4-1-4)(F/S). A continuation of R 102, these courses are intended to develop further the skills of listening, speaking, reading, and writing Russian. Conducted in Russian, the courses use cultural and literate reading selections and writing assignments to build vocabulary and develop grammatical competency. PREREQ: R 102 or PERM/DEPT.

S SPANISH

Lower Division

S 101-102 ELEMENTARY SPANISH (4-1-4)(F/S). Develops abilities in understanding, speaking, reading and writing Spanish. Offers a basic study of grammatical structures and vocabulary. Introduces the student to Hispanic culture. Students may not enroll for S 101 for credit if they have had more than one year of high school Spanish or its equivalent.

S 201-202 INTERMEDIATE SPANISH (4-1-4)(AREA I). Intended to develop further Spanish language skills, both oral and written. Intensive review of
College of Arts and Sciences

fundamentals of structure and vocabulary. Topics for conversation, reading, and writing focus upon culture of the Hispanic countries. PREREQ: S 102 or equivalent as determined by placement examination and consultation.

S 203 SPANISH FOR THE NATIVE SPEAKER (4-0-4)(F/S). A course designed especially for students with native speaking ability but insufficient formal training in grammar, reading, writing, and standard oral communication. Students qualified for this course cannot challenge S 202. PREREQ: S 201 or equivalent as determined by the placement test. Course conducted in Spanish. Alternate years.

Upper Division

S 303 ADVANCED SPANISH CONVERSATION AND COMPOSITION (3-0-3)(F/S). Expands facility in expressive conversation as well as accuracy in writing Spanish. Offers analysis of grammar and expansion of vocabulary through cultural and literary readings. Discussion of topics related to Hispanic contemporaries. An intensive study of the historical, political, economic, social and cultural developments of the Hispanic-American nations, and their contributions to the Western world. Discussion conducted in Spanish; some readings in English. Papers required. PREREQ: S 202 or equivalent as determined by placement examination and consultation. Alternate years.

S 304 ADVANCED SPANISH CONVERSATION AND COMPOSITION (3-0-3)(F/S). Designed to continue expanding facility in expressive conversation as well as accuracy in writing Spanish. Discussion of topics related to contemporary Hispanic world, and other areas of immediate concern to the student. PREREQ: S 202 or equivalent as determined by placement examination and consultation. Alternate years.

S 376 SPANISH CIVILIZATION AND CULTURE (3-0-3)(F/S). Spanish civilization from earliest Iberian beginnings to the present. Special attention given to contributions of Spain to Western civilization. Discussions conducted in Spanish; some readings in English. Papers required. PREREQ: S 202 or equivalent as determined by placement examination and consultation. Alternate years.

S 377 SPANISH-AMERICAN CULTURE AND CIVILIZATION (3-0-3)(F/S). Spanish-American civilization from ancient origins to contemporary times. An introduction to the principal authors, works, movements and periods of Spanish-American literature from the colonial time to the end of 18th century. PREREQ: FL 331 or PERM/INST. Alternate years.

S 411 ADVANCED SPANISH COMMUNICATION (3-0-3)(F/S). An advanced oral and written communication course for those who need extended training in expressing ideas. Special emphasis on prose, style, vocabulary building, appropriateness of idioms and figures of speech, with major fiction and non-fiction works used as examples. Frequent essays required. PREREQ: S 303 or S 304. Course is conducted in Spanish. Alternate years.

S 425 MEXICAN-AMERICAN LITERATURE (3-0-3)(F/S). Representative writings by major Mexican-American authors, with emphasis on social and literary values. PREREQ: FL 331 or PERM/INST. Alternate years.

S 435 CONTEMPORARY SPANISH LITERATURE (3-0-3)(F/S). Literature of ideas in contemporary Spain through major representative authors and works. Genesis of modern thought and new perspectives in today's Spain. PREREQ: FL 331 or PERM/INST. Alternate years.

S 437 CONTEMPORARY SPANISH-AMERICAN LITERATURE (3-0-3)(F/S). Literature of ideas in contemporary Spanish America through major representative authors and works. Genesis of modern thought and new perspectives in today's Hispanic America. PREREQ: FL 331 or PERM/INST. Alternate years.

S 445 EIGHTEENTH- AND NINETEENTH-CENTURY SPANISH LITERATURE (3-0-3)(F/S). The main manifestations of thought and literature from 1700 to 1900, including the periods of the Enlightenment, Realism and Romanticism. PREREQ: FL 331 or PERM/INST. Alternate years.

S 447 NINETEENTH-CENTURY SPANISH-AMERICAN LITERATURE (3-0-3)(F/S). A detailed study of the representative movements, periods, works, and authors from 1800 to 1910. PREREQ: FL 331 or PERM/INST. Alternate years.

S 455 THE GOLDEN AGE OF SPANISH LITERATURE (3-0-3)(F/S). The main literary movements of the Golden Age in Spain (16-17th centuries), with emphasis on representative authors from each. PREREQ: FL 331 or PERM/INST. Alternate years.

S 457 COLONIAL AND EIGHTEENTH-CENTURY SPANISH-AMERICAN LITERATURE (3-0-3)(F/S). An introduction to the major authors, works, movements, and periods of Spanish-American literature from the colonial time to the end of 18th century. PREREQ: FL 331 or PERM/INST. Alternate years.

S 465 MEDIEVAL AND RENAISSANCE SPANISH LITERATURE (3-0-3)(F/S). An introduction to the principal authors, works, movements and periods of Spanish literature, from its beginnings to the end of the 15th century. PREREQ: FL 331 or PERM/INST. Alternate years.

S 475 CONTEMPORARY ISSUES IN THE SPANISH-SPEAKING WORLD (3-0-3)(F/S). A lecture and discussion course based on current social, economic, cultural and political events faced by Spanish-speaking nations. Special attention is given to a comparative examination and analysis of the people, view-points, and institutions, as well as the problems, issues and trends facing these people in their respective countries today. PREREQ: S 376 or S 377 or PERM/INST.

Department of Music

Chairperson and Professor: James D. Cook; Professors: Baldwin, W. Elliott, Hsu, Parkinson, Rozmajzl; Associate Professors: Baldassarre, Belfy, Berg, Britt, Brown, C. Elliott, Oakes, Samball, Schroeder, Thomason, Wells; Assistant Professors: Maynard, Purdy.

Degrees Offered

• BA and BM in Music
• BM in Music Education
• MM in Music Education and Performance/Pedagogy: See Graduate College for further details.

Department Statement

The goal of the Department of Music is two-fold: 1) to train students to become successful and productive professional musicians, music-teachers, or musician/business people in today's society, giving them as thorough and comprehensive a background in the art and practice of music as is possible to do; and 2) to heighten musical awareness in the general, non-major student. In training the aspiring professional, the goal of excellence in musicianship is defined by the faculty in the courses, various degree programs and majors offered by the Department at both the undergraduate and graduate levels.

In addition the Department of Music serves the needs of the University community as well as the larger community of metropolitan Boise and the State of Idaho through the offering of courses, by presenting musical performances for the public's cultural growth and entertainment, by making available faculty and/or student performers at various community functions, and by providing leadership for many cultural activities in the community.

Gifts and Memorials

The Department of Music has been the recipient of many fine gifts of electronic equipment, instruments, music, scholarship donations, books and record collections from friends and supporters of the Department including individuals, clubs, businesses and organizations. Several generous gifts of Mr. & Mrs. William K. Dunkley and Dunkley Music Company of Boise. In the Hemingway Western Studies Center is housed the J. W. Cunningham Memorial Pipe Organ, a three-manual Austin Organ of 46 ranks and 59 registers, given to the University by Laura Moore Cunningham. It is used for concerts, teaching and practice purposes. The console for the Harry W. Morrison Memorial Carillon built by Maas-Rowe is also in the Hemingway Center for Western Studies. Given as a memorial to her husband by Mrs. Velma Morrison, The Grand Symphony Carillon System chimes the hours and half-hours and daily plays short programs of carillon music.

The Department of Music is especially grateful to these donors who have given so generously:

Boise Choristers
Bernice Brusen

Dr. & Mrs. Robert deNeeufville
Dr. & Mrs. Robert deNeeufville

Peter Funo
William K. Dunkley Family

Dr. Arthur C. Jones
Alice Gould

Bryant S. Martineau
Marjorie Palmquist

Presser Foundation
Mr. & Mrs. Edward Utley

Dr. Gerald & Eunice Wallace
Mrs. Eli Weston

Mr. & Mrs. Robert deNeeufville

Peter Funo

Pamela Funo

Dr. & Mrs. Robert deNeeufville

Music Major Programs: The Music Department offers two Baccalaureate Degree programs which students may choose between, and one Graduate Degree program with two emphases that students may choose from:

1. The Bachelor of Music Degree is essentially a professional music degree with emphasis in Performance, Theory-Composition, or Music Education.
   A. Major emphasis in Performance or Theory-Composition: designed

College of Arts and Sciences
to train performers, performing artists, teachers, and composers, this program is basic to preparing students for graduate work in the performing, creative, and college or university teaching fields.

B. Major emphasis in Music Education: designed to prepare students for music teaching careers in the secondary and elementary educational systems and also prepares students for graduate work in Music.

2. The Bachelor of Arts Degree with Music major is designed for the student who wants a general Music major program within a broader based liberal arts degree.

Degree Requirements

BACHELOR OF MUSIC PROGRAM

1. General Requirements

A. All full-time music majors will be required to attend Concert Class during each semester of residency at Boise State University until the required number of semesters of Pass grade in Concert Class has been achieved, as follows: Bachelor of Arts General Music and Music/Business majors and Bachelor of Music Performance and Theory & Composition emphasis majors—8 semesters, Bachelor of Music: Music Education emphasis—7 semesters (see course description for MA 010 for additional details). All students will perform on their major instrument before a faculty jury at the end of each semester. Students presenting MA 444, 445 or 446 recitals are exempt from faculty jury during the semester in which the recital is given.

B. All Bachelor of Music majors whose major instrument is other than keyboard are required to pass, no later than the end of the junior year, the Piano Proficiency Examination before a faculty committee. A grade of C or better in MU 213 will satisfy this requirement. Details are available from the Music Department.

C. All full-time Bachelor of Music majors will register in a major ensemble (Symphonic Winds, University Orchestra, Meistersingers, University Singers, or for keyboard or guitar majors the appropriate course as specified), each semester until the minimum number of semesters for graduation have been met. Only one major ensemble per semester will be counted toward graduation requirements.

Minimum ensemble requirements:

Performance Majors:

Keyboard — 8 semesters, 2 may be Accompanying
2 may be Duono-Piano

Guitar — 8 semesters, 4 may be Guitar Ensemble

Voice — 8 semesters, 2 may be Opera Workshop

All Others — 8 semesters

Theory & Composition Majors — 8 semesters

Music Education Majors — 7 semesters

Additional details are available from the Music Department.

D. The following core of Music courses will be included in all Bachelor of Music curricula:

- Concert Class MA 010 — 0 (attendance required each semester of full-time student until minimum number of semesters is met).
- Major Ensemble (see 1C above) — 7-8
- Materials of Music I-IV MU 119*, 120, 219, 220 — 12
- Orientation to Music Educ MU 271 — 3
- Basic Form and Analysis MU 223 — 2
- Basic Conducting MU 261 — 1
- Music History & Literature I-III MU 351, 352, 353 — 9
- Total 38-39

E. All Music Education majors in the Bachelor of Music program are required to pass a vocal proficiency exam before their application for student teaching. Successful completion of MU 221 Ear Training III and of the folk/art song singing section of MU 256 Vocal Techniques and Methods will satisfy this requirement. Further details are available from the Music Department.

2. Performance Emphasis Minimum Requirements:

A. General University & Basic Core Requirements for Bachelor of Music Degree — 32

B. Music Requirements

1) Core — 39
2) Studies — 30

All Performance majors will take 2 credits of Performance Studies the first semester, freshman year, and perform a 4 credit jury prior to enrolling in 4 credit Performance Studies second semester. MC 400 Level Studies: 6 credits minimum.

C. Additional Upper Division Courses Total Credits — 16-22
- Functional Piano MU 213 — 2
- Counterpoint MU 423, 424 — 6
- Advanced Form & Analysis MU 410 — 3
- *Choral or Instrument Conducting MU 365, 366 — 1
- **Major Instrument Literature MU 457 — 2
- **Major Instrument Pedagogy I, II MU 463-464 — 4
- Senior Recital MA 446 — 2
- Not required of Piano, Voice or Guitar majors.
- Required only of Piano, Voice or Guitar majors.

D. Elective Credits — 7-15

TOTAL 128

3. Theory-Composition Emphasis Minimum Requirements:

A. General University & Basic Core Requirements for Bachelor of Music Degree — 32

B. Music Requirements

1) Core — 39
2) Division Performance Studies — 16
- Performance Major Studies — 8
- Performance Minor Studies — 8
3) Upper Division Courses
- Piano, unless major instrument is Keyboard — 8
- Choral or Instrument Conducting MU 365, 366 — 2
- Music Composition MA 410 — 8
- Senior Composition Recital MA 447 or Music Seminar MU 498 — 2

C. Elective Credits — 12-14

TOTAL 128

4. Music Education Emphasis Minimum Requirements:

A. General University & Basic Core Requirements for Bachelor of Music Degree — 32

B. Music Requirements

1) Core — 38
2) Instrument Performance Studies — 14
- MC 300 Level or above: 4 cr minimum
3) Lower Division Courses
- Orientation to Music Educ MU 271 — 1
- Instrumental Tech & Meth MU 257, 266 — 4
- Vocal Tech & Meth MU 256 — 2
4) Upper Division Courses
- Band Arranging MU 455 — 2
- Band & Orchestra Meth & Mater MU 387 — 2
- Choral Methods & Mater MU 385 — 2
- Choral & Instrum Conducting MU 365, 366 — 2
- Instrumental Tech & Meth MU 368, 369 — 2
- Teaching Music in the Elem Classroom MU 372 — 2
- One-half Senior Recital MA 444 — 1
5) College of Education Requirements — 26-32
- General Psychology P 101 (Area II) — 3
- Foundations of Education TE 201 (Area II) — 3
- Educational Psychology TE 225 — 3
- Educ Except Secondary Student TE 333 — 1
- Reading in Content Subjects TE 407 — 3
- Secondary School Methods TE 381 — 3
- Secondary Student Teaching — 10-16

C. Elective Credits — 0-1

Recommended Music Electives:
- Functional Piano MU 213 — 2
- Teaching Music in the Elem Classroom MU 372 — 2

The above requirements lead to state certification eligibility to teach music in the public schools K-12. Specific details are available from the Music Department.

TOTAL 129

BACHELOR OF ARTS PROGRAM

General Music Major Option

1. General University and Basic Core Requirements for the Bachelor of
Recommended Programs

<table>
<thead>
<tr>
<th>PERFORMANCE EMPHASIS MAJORS</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN YEAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Concert Class MA 010</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Performance Major MC 1-2, 1-4</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Major Ensemble ME 1-</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Materials of Music I, II MU 119-120</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Ear Training I, II MU 121-122</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Survey Western Art Music MU 143 (Area I)</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Area II History</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Area II Elective</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>15</td>
</tr>
<tr>
<td>SOPHOMORE YEAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concert Class MA 010</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Performance Major MC 2-4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Major Ensemble ME 3-</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Basic Form &amp; Analysis MU 223</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Keyboard Harm* or Major Inst Ped I, II** or Elect*</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Counterpoint MU 423 or 424</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Music History I MU 351</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Area I Elective</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Electives</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>JUNIOR YEAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concert Class MA 010</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Performance Major MC 3-4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Major Ensemble ME 3-</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Basic Form &amp; Analysis MU 223</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Keyboard Harm* or Major Inst Ped I, II** or Elect*</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Counterpoint MU 423 or 424</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Music History I &amp; II MU 352, 353</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Area I Elective</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>SENIOR YEAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concert Class MA 010</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Performance Major MC 4-4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Major Ensemble ME 3-</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Keyboard Harm* or Major Inst Ped I, II** or Elect*</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Music History I &amp; II MU 352, 353</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Counterpoint MU 423 or 424</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Advanced Form &amp; Analysis MU 410</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Choral or Inst Conducting MU 365# or 366#</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Senior Recital MA 446</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>1-3</td>
<td>1-3</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>TOTAL CREDITS</td>
<td>128</td>
<td></td>
</tr>
</tbody>
</table>

*Keyboard majors (piano/organ) must include 2 semesters of ME 180/480, Conducting, and may include up to 2 semesters of ME 185/485, Voice & Guitar. Accompanying and may include up to 2 semesters of ME 186/486, Guitar Ensemble.
**MU 313-314, Keyboard Harmony and MU 483, 484, Major Instrument Pedagogy I & II are offered alternate years only. See catalog course description for details.
#Not required of Piano, Voice or Guitar majors.

THEORY COMPOSITION MAJORS

<table>
<thead>
<tr>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN YEAR</td>
<td></td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
</tr>
<tr>
<td>Concert Class MA 010</td>
<td>0</td>
</tr>
<tr>
<td>Performance Major Studies MC 1-2</td>
<td>2</td>
</tr>
<tr>
<td>Performance Minor Studies MC 1-2</td>
<td>2</td>
</tr>
<tr>
<td>Major Ensemble ME 1-</td>
<td>1</td>
</tr>
<tr>
<td>Materials of Music I, II MU 119-120</td>
<td>3</td>
</tr>
<tr>
<td>Ear Training I, II MU 121-122</td>
<td>1</td>
</tr>
<tr>
<td>Survey Western Art Music MU 143 (Area I)</td>
<td>3</td>
</tr>
<tr>
<td>Area II History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
<tr>
<td>SOPHOMORE YEAR</td>
<td></td>
</tr>
<tr>
<td>Concert Class MA 010</td>
<td>0</td>
</tr>
<tr>
<td>Performance Major Studies MC 2-2</td>
<td>2</td>
</tr>
<tr>
<td>Performance Minor Studies MC 2-2</td>
<td>2</td>
</tr>
<tr>
<td>Major Ensemble ME 1-</td>
<td>1</td>
</tr>
<tr>
<td>Materials of Music I, II MU 119-120</td>
<td>3</td>
</tr>
<tr>
<td>Ear Training I, II MU 121-122</td>
<td>1</td>
</tr>
<tr>
<td>Basic Conducting MU 261</td>
<td>1</td>
</tr>
<tr>
<td>Music History I MU 351</td>
<td>3</td>
</tr>
</tbody>
</table>

*MC courses are extra fee courses

Graduate Degree: Master of Music, Music Education Emphasis or Performance/Pedagogy Emphasis. Details may be found in the Graduate College Section of this Catalog.
JUNIOR YEAR

**Performance minor Instrument must be piano unless piano is the performance major. For details.**

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>MA 010</td>
<td>0</td>
</tr>
<tr>
<td>Freshman</td>
<td>MA 410</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>ME 3-</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 223</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 366</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 423 or 424</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 453</td>
<td>2</td>
</tr>
</tbody>
</table>

**Area I Elective**

17 16

SENIOR YEAR

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division</td>
<td>MA 010</td>
<td>0</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MA 410</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>ME 3-</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 313-314 or Elect</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 352-353</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 366</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 387</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 447</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 448</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 201</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 221-222</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 121-122</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 143</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 101</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area I Elective**

17 16

---

**MUSIC EDUCATION EMPHASIS MAJORS**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>MU 101-102</td>
<td>3</td>
</tr>
<tr>
<td>Freshman</td>
<td>MA 100</td>
<td>0</td>
</tr>
<tr>
<td>Freshman</td>
<td>MA 150</td>
<td>1</td>
</tr>
<tr>
<td>Freshman</td>
<td>MA 128</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>ME 3-</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 119-120</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 257 or 266</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 368 or 369</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 261</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 351</td>
<td>3</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore</td>
<td>MA 100</td>
<td>0</td>
</tr>
<tr>
<td>Sophomore</td>
<td>MA 150</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>ME 3-</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 219-220</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 221-222</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 257 or 266</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 368 or 369</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 261</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 351</td>
<td>3</td>
</tr>
</tbody>
</table>

---

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Division</td>
<td>MA 010</td>
<td>0</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MA 444</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MA 3-</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 372</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MU 453</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 333</td>
<td>1</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 381</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 407</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division</td>
<td>MC 3-</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 219</td>
<td>3</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 482</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 483</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 484</td>
<td>2</td>
</tr>
<tr>
<td>Upper Division</td>
<td>TE 485</td>
<td>2</td>
</tr>
</tbody>
</table>

---

**Course Offerings**

See page 23 for definition of course numbering system

**MA MUSIC APPLIED—PERFORMANCE CLASSES, RECITALS**

**Lower Division**

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 010 CONCERT CLASS</td>
<td>(0-1-0)(F/S)</td>
<td>5</td>
</tr>
<tr>
<td>MA 107 RECORDER CLASS</td>
<td>(1-0-1)(S)</td>
<td>5</td>
</tr>
<tr>
<td>MA 127 INTERMEDIATE GUITAR CLASS</td>
<td>(0-2-1)(F/S)</td>
<td>5</td>
</tr>
<tr>
<td>MA 150 PIANO CLASS</td>
<td>(0-1-1)(F/S)</td>
<td>5</td>
</tr>
<tr>
<td>MA 180 VOICE CLASS</td>
<td>(0-1-1)(F/S)</td>
<td>5</td>
</tr>
</tbody>
</table>

**Upper Division**

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 307 RECORDER CLASS</td>
<td>(1-0-1)(F/S)</td>
<td>5</td>
</tr>
<tr>
<td>MA 327 ADVANCED GUITAR CLASS</td>
<td>(0-3-2)(F/S)</td>
<td>5</td>
</tr>
<tr>
<td>MA 328 JAZZ GUITAR CLASS</td>
<td>(0-2-1)(F/S)</td>
<td>5</td>
</tr>
<tr>
<td>MA 410 MUSIC COMPOSITION</td>
<td>(2-0-2)(F/S)</td>
<td>5</td>
</tr>
<tr>
<td>MA 444 MUSIC EDUCATION—BACHELOR OF ARTS SENIOR RECITAL (0-0-1)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>MA 445 RECITAL (0-0-2)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>MA 446 SENIOR PERFORMANCE RECITAL (0-0-2)</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>
MA 447 SENIOR COMPOSITION RECITAL (0-V-2). A recital for the performance of original compositions by the Theory-Composition major. Students must make their own arrangements with personnel required for the recital. Required of Theory-Composition majors. PREREQ: Major in Theory-Composition and PERM/INST. Graded pass/fail.

MC MUSIC-PRIVATE LESSON PERFORMANCE STUDIES (These courses carry an extra fee. For details see schedule of fees elsewhere in this Catalog.)

Students enrolling in private lesson (MC) studies must secure the consent of the instructor prior to registration.

Generally, all entering freshmen will enroll in 100-level studies; non-music majors will enroll initially in 100-level studies. Before permission is granted to any student to enroll in the next higher level, the student must perform before a faculty jury toward the determination of appropriate level placement. Juries are held at the end of each semester. Music majors are required to perform on their major instrument before a faculty jury each semester. Details in performance level requirements for each instrument and voice are available from the Music Department office. All MC undergraduate courses may be repeated for credit (no limit). Students transferring into the Music Department as Music majors from another institution or from another department within BSU must complete a performance examination for placement in the appropriate performance level.

Private Lesson Performance Studies Course Numbering System:
The three-digit course number carries the following information: first digit (1-, 2-, etc.) = performance level; second digit = instrumental family (-0-windwinds, -1-brass, -2-percussion, -3-voice, -4-keyboard, -5-fretted string-instruments, -6-guitar; -7-bowed string-instruments, -7-harp); third digit (-1, -2, -4) = credit value. Four-credit studies are reserved for bachelor of music program performance emphasis majors. Non-performance majors may enroll for 4 credits only with permission of the instructor and the department chair. Suffix letters identify the particular instrument in each instrumental family: windwinds: A flute, B oboe, C clarinet, D bassoon, E saxophone, F recorder; brasses: A horn, B trumpet, C trombone, D tuba; Keyboard: A piano, B organ; Fretted stringed instruments: A guitar; Bowed string instruments: A violin, B viola, C cello, D string bass. The class schedule printed prior to each semester lists particular studio courses available for the semester.

Major area minimum practice requirements:
For 4 hrs. credit - 18 hrs. practice per week.
For 2 hrs. credit - 12 hrs. practice per week.

Minor area practice requirements:
For 2 hrs. credit - 6 hrs. practice per week.

ME 101, 102, 104, 202, 204, 302, 304, 402, 404 WOODWIND INSTRUMENTS Private lessons.
ME 112, 114, 212, 214, 312, 314, 412, 414 BRASS INSTRUMENTS private lessons.
ME 122, 124, 222, 224, 322, 324, 422, 424 PERCUSSION INSTRUMENTS private lessons.
ME 132, 134, 232, 234, 332, 334, 432, 434 VOICE PRIVATE lessons.
ME 142, 144, 242, 244, 342, 344, 442, 444 KEYBOARD INSTRUMENTS private lessons.
ME 152, 154, 252, 254, 352, 354, 452, 454 FRETTED STRING INSTRUMENTS private lessons.

Course numbers ending in 2: (0-2-1)(F/S).
Course numbers ending in 4: (0-4-1)(F/S).

ME MUSIC, ENSEMBLE
All ME Courses may be repeated for credit.
Lower Division and Upper Division

ME 101, 301 UNIVERSITY SINGERS (0-2-1)(F/S). A general chorus open to all university students. No audition is necessary. Major choral works from all periods will be sung. Public performance(s) will be expected each semester.

ME 105, 305 MEISTERSINGER (0-2-1)(F/S). A course on the unaccompanied choral singing, open to all university students. The Meistersingers is the concert-touring choir of the University. PREREQ: Enrollment is by audition and Music Department approval.

ME 110, 310 VOCAL ENSEMBLE (0-2-1)(F/S). Designed to promote participation and repertoire knowledge of small vocal ensembles. Literature includes music of all periods. Public performances given each semester. PREREQ: PERM/INST.

ME 111, 311 VOCAL JAZZ CHOIR (0-2-1)(F/S). Designed to promote participation in and repertoire knowledge of literature for vocal jazz choirs. Public performance given each semester. PREREQ: PERM/INST.

ME 112, 312 WOMEN’S CHORUS (0-3-1)(F/S). Designed for female singers who are interested in performing a wide repertoire of music composed for a women’s chorus. Enrollment is open to all university women students. Public performance(s) will be expected each semester.

ME 115, 315 OPERA THEATRE (0-3-1). A course in the study and production of operas. PREREQ: PERM/INST.

ME 120, 320 SYMPHONIC WINDS (0-5-1)(F/S). An elective open to all students who can play a band instrument.

ME 121, 321-321G MARCHING BAND (0-V-1)(F). Designed to promote participa-
MU 201 MUSIC FUNDAMENTALS (2-0-2). Primarily for Elementary Education students, but open to all non-music majors. Learning to read music through study of music notation, symbols, and elements of all major and minor scales, key signatures, and elementary chord structures. Basic conducting patterns are learned and practiced.

MU 213 FUNCTIONAL PIANO (2-0-2)(F/S). Building of basic keyboard skills needed for music education majors in areas of sight reading, transcription, harmonization, improvisation, and repertoire materials; piano music and 2-4 line scores will be used. May be repeated once for credit. PREREQ: MU 210 and one year of piano study.

MU 219 MATERIALS OF MUSIC III (3-0-3)(F/S). Continuation of 4-part textures. Diatonic sevenths; secondary dominants and introduction to altered chords, augmented sixth and neapolitan chords; modulations; compositions skills involving the above. PREREQ: MU 210 or equivalent and piano per MU 119.

MU 220 MATERIALS OF MUSIC IV (3-0-3)(F/S). Continuation of 4-part textures. Eleventh and thirteenth chords; twentieth century melody and harmony; atonality and serial musical material. Continuation hands skills involving the above. PREREQ: MU 219 or equivalent and piano per MU 119.

MU 221, 222 EAR TRAINING III-IV (0-2-1)(F/S). Continuation of ear training I-II: solfeggio, dictation of more advanced rhythms, 2, 3 and 4-parts. Student expected to play at keyboard simple forms of basics chords in 4-part harmony. PREREQ: MU 212-112; MU 120; at least one year of piano study or concurrent enrollment in piano study.

MU 223 BASIC FORM AND ANALYSIS (2-0-2)(F/S). A study of the basic and elementary formal structures of music from both design and harmonic structure viewpoints. Analysis of the motif, phrase, period, and simpler binary and ternary forms. An overview of larger common forms: sonata, variation, rondo, etc. PREREQ: MU 219 or equivalent or PERM/INST.

MU 256 VOCAL TECHNIQUES AND METHODS (1-2-2)(S). Designed for the music education major, this course deals with teaching skills to help develop the vocal potentials of young students, describing basic physical components of the voice and their coordination, understanding the young and 'changing' voice, and teaching phonetic components of Latin, Italian, and German. PREREQ: MU 220, functional piano, OR Piano Proficiency passed, OR MU 219 or equivalent.

MU 271 ORIENTATION TO MUSIC EDUCATION (1-1-1)(F). A look at school music programs to include all levels: primary through secondary programs. Lab period devoted to visitation in public schools.

MU 313, 314 KEYBOARD HARMONY AND BASIC IMPROVISATION (2-0-2)(F/S). Keyboard application of basic harmonic principles: playing and harmonizing figured and unfigured basses and melodies, modulation, transposition, accompanying familiar tunes, beginning improvisation. Offered alternate years, even-numbered semesters. Prereq: MU 118 or 331. Grade of C or better in MU 213 Functional Piano, OR Piano Proficiency passed, OR 200-level private piano study.

MU 331 AMERICAN MUSICAL THEATRE (3-0-3)(F). An historical overview will be presented along with a look at behind-the-scenes work necessary in the presentation of musical theatre productions. Includes an in-depth look at all the responsibilities of the entire production crew, from promotion and box office to stage crews, and from make-up crews to cast.

MU 332 MUSICAL THEATRE PRODUCTIONS (0-10-4)(S). Specific apprenticeships in the operations of actual musical theatre productions will be given to gain experience in all practical aspects of musical theatre productions. Offered alternate years, even-numbered semesters. Prereq: MU 220, 120, 143 or PERM/INST.

MU 351 MUSIC HISTORY AND LITERATURE I (3-0-3)(S). The analysis of the development of Western art music from early Christian times to the early baroque era. Consideration of music from these periods as artistic entities, their relationships to their contemporaneous societies, and as foundations for subsequent expression. Prereq: MU 120 and 143 or PERM/INST.

MU 352 MUSIC HISTORY AND LITERATURE II (3-0-3)(F). Encompasses the periods from the mid-baroque through the early 19th century. Attention to the changes in music forms and genres through listening, score-reading, analysis and discussion. Prereq: MU 351, MU 220 or PERM/INST.

MU 353 MUSIC HISTORY AND LITERATURE III (3-0-3)(S). Encompasses the music of the mid-19th century to the present. Attention to the changes in musical styles and aesthetics through listening, score-reading, analysis and discussion. Prereq: MU 352 or PERM/INST.

MU 365 CHORAL CONDUCTING (0-2-1)(F). A course designed to deal with the problems and techniques of choral conducting. Students will work with ensemble groups as laboratories for conducting experience. Prereq: MU 261 or PERM/INST.

MU 366 INSTRUMENTAL CONDUCTING (0-2-1)(S). A course designed to deal with the problems of instrumental conducting. Includes baton technique and score reading. Students will work with ensembles as laboratories for conducting experience. Prereq: MU 256.

MU 368 PERCUSSION TECHNIQUES AND METHODS (1-2-2)(F/S). Primarily for music education majors, this course deals with methods and materials of teaching the various percussion instruments in the public schools, while providing the student with a basic performing technique on two or more of the brass instruments.

MU 369 BRASS TECHNIQUES AND METHODS (1-2-2)(F/S). Primarily for music education majors, this course deals with methods and materials of teaching the various brass instruments in the public schools, while providing the student with a basic performing technique on two or more of the brass instruments.

MU 370 GUITAR FOR CLASSROOM TEACHERS (2-0-2)(F/S). Designed for teachers or prospective teachers who wish to use the guitar in classroom situations. Emphasis is on accompanying skills, elementary chord theory, melody playing, rhythm guitar handling, and an introduction to the electric guitar. Materials are drawn from popular and folk styles useful in elementary classes. May be repeated once for credit.

MU 371 MUSIC METHODS FOR THE ELEMENTARY SCHOOL TEACHER (2-0-2). Materials, methods and problems relating to classroom music in grades K through six. Prereq: Music FundamentalsMU 201 or equivalent.


MU 385 CHORAL METHODS AND MATERIALS (1-2-2)(S). Designed for music education majors, this course deals with methods and materials of teaching choral music in public school, college, and junior high schools. A practical workshop in selection and conducting of choral materials, rehearsal techniques, use of small ensembles, planning and organization of vocal groups.

MU 387 BAND AND ORCHESTRA METHODS AND MATERIALS (1-2-2)(F). The study, organization, and administration of bands and orchestras at the secondary school level; including equipment purchasing, budgets, public relations, planning, rehearsal techniques, programming, and emergency repairs of instruments.

MU 410, 410G ADVANCED FORM AND ANALYSIS (2-0-2)(F). Analysis of harmonic and formal structures of the larger binary and ternary forms; the sonata, the symphony, the concerto, Baroque forms. Prereq: MU 220 or equivalent. Odd numbered years.

MU 424, 424G COUNTERPOINT SINCE 1600 (3-0-3)(F). Study and writing in contrapuntal styles from Baroque Period to present day. Invertible counterpoint, canon, fugue, invention, analysis of procedures in representative works. Additional compositions and/or research for graduate credit. Prereq: MU 220 or equivalent. Even numbered years.


MU 466-466G DICTION FOR SINGERS I (2-0-2)(F). A course designed for singers, devoted to the understanding of the IPA (International Phonetic Alphabet) system and the learning of the rules of pronunciation in Italian, Latin and Spanish languages. Graduate students will additionally transcribe an entire song cycle or the songs of a proposed graduation recital. Strongly recommended for all voice majors. Odd-numbered years. Prereq: MU 465 or equivalent.

MU 466-466G DICTION FOR SINGERS II (2-0-2)(S). A continuation of MU 465 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. Strongly recommended for all voice majors. Even numbered years. Prereq: MU 465 or equivalent.

MU 498 MUSIC SEMINAR (2-0-2)(F). A seminar project under faculty direction. Prereq: Senior standing.
Department of Philosophy

Department Statement

Philosophy involves a reasoned attempt to answer questions which arise from reflection on basic concepts and assumptions about the world and our experience of it. Some of these questions are of obvious practical importance, for example "How should moral decisions be made?" Others are more abstract, for example "What is the nature of knowledge (or reality, or goodness)?" Serious philosophical inquiry into such questions is typically grounded in careful study of the efforts of earlier thinkers; thus, an important aspect of the major is the study of the history of philosophy.

The undergraduate major in philosophy does not in itself prepare the student for a specific vocation. For students who aspire to academic careers in philosophy, the major provides the basis for graduate work in the field. For other students, it develops intellectual skills useful in life and in other fields of advanced study such as law, religion, and public affairs.

PHILOSOPHY MAJOR
Bachelor of Arts Degree

The program requirements for a major in Philosophy, in addition to the necessary requirements to obtain a Bachelor of Arts degree from Boise State, consist of 30 hours of Philosophy credit, 24 of which are specifically required courses and 6 of which are electives from other courses in Philosophy. Philosophy majors should bear in mind that the university requires the completion of a total of 40 hours of upper division credit by all graduating seniors. The courses required for a major in Philosophy are:

1. PY 101 Introduction to Philosophy
2. PY 211 Ethics
3. PY 221 Introduction to Logic
4. PY 305 Ancient Philosophy
5. PY 309 Modern Philosophy
6. PY 413 Analytic Philosophy
7. PY 433 Metaphysics or
8. PY 489 Senior Tutorial

PHILOSOPHY MINOR

Intro Philosophy PY 101 .................................................. 3
Ethics PY 211 .................................................. 3
Intro Logic PY 221 .................................................. 3
Philosophy Electives (NOT PY 489) ................. 9
TOTAL .................................................. 18

Course Offerings

See page 23 for definition of course numbering system

PY PHILOSOPHY

PY 101 INTRODUCTION TO PHILOSOPHY (3-0-3)(F/S)(AREA I). A general introduction to some basic philosophical problems and concepts, with attention to selected major philosophers and with an emphasis on philosophical method.

PY 201 ORIENTAL PHILOSOPHY (3-0-3)(S). An examination of the philosophical teachings of the great oriental thinkers through a study of classical texts selected from the traditions of Hinduism, Confucianism, Taoism, and Buddhism. Alternate years.

PY 211 ETHICS (3-0-3)(S). An investigation of the validity of moral claims, the use of moral language, and the evaluation of classical efforts, e.g., utilitarianism, to provide a test of moral rights.

PY 221 INTRODUCTION TO LOGIC (3-0-3)(F/S)(AREA I). A study of the concepts and methods used in the analysis and evaluation of arguments, with emphasis on the structure of arguments.

PY 231 PHILOSOPHY OF RELIGION (3-0-3)(F). An introduction to basic philosophical issues connected with religious belief, such as the nature and existence of God, the problem of evil, miracles, and the significance of religious experience. Alternate years.

PHYSICS MAJOR
Bachelor of Science Degree

The scope of the program is applied. However, flexibility is maintained in order to direct the student toward their desired objectives. If the student is interested in going on into graduate Physics, more Math and some independent study in Quantum Physics would be recommended. Depending on the particular field of interest in Physics, the student could select electives in Biology, Chemistry, Math or Geophysics.

Liberal Arts Option

1. General University and BS Degree Requirements ................. 30
2. Major Requirements ................. 98
   A. Physics ................. 56
      Mechanics, Waves and Heat & Lab PH 211-212 ................. 5
      Electricity, Magnetism & Optics & Lab PH 213-214 ................. 5
Intermediate Programming PH 225 ........................................... 2
Analog Electronics PH 301 ................................................... 4
Transducers PH 304 .......................................................... 3
Intro Modern Physics & Lab PH 309-310 .............................. 4
Modern Physics PH 311, 312 ................................................. 6
Optics PH 332-333 PH 309 .................................................. 5
Optics Lab PH 334 .............................................................. 1
Mechanics PH 341 ............................................................. 4
Electricity & Magnetism, PH 381, 382 ................................. 6
Advanced Topics PH 422 ..................................................... 3
Thermal Physics PH 432 ....................................................... 3
Senior Lab PH 481 .............................................................. 3
Seminar PH 499 ................................................................. 1

B. Math ..................................................................... 20
1) Calculus Sequence M 204, 205, 206 ............................... 13
2) Differential Equations M 331 ........................................... 3
3) A choice of one or more of the following for at least 4 credit
   hours:
   a) Linear Algebra M 301 .................................................. 4
   b) Vector Calculus M 320 .................................................. 2
   c) Numerical Analysis M 340 ............................................. 4
   d) Fund of Statistics M 361 ................................................. 4
   e) Four Ser & Bd Value M 421 ......................................... 3
   f) Probability & Statistics M 431 ..................................... 3
   g) Linear Syd & Sig Process CS 426 ................................. 4

C. Chemistry C 131, 132-133, 134 ................................... 9

D. Recommended Electives ........................................... 13

Secondary Option
1. General University Requirements ........................................ 30
2. Major Requirements ..................................................... 78

A. Physics ..................................................................... 34
   a) Mechanics, Waves and Heat Lec & Lab PH 211-212 .. 5
   b) Electricity, Magnetism & Optics Lec & Lab PH 213-214 .. 5
   c) Intro to Descriptive Astronomy PH 105 ....................... 4
   d) Intro Modern Physics PH 309 ................................. 3
   e) Intro Modern Physics Lab PH 310 ............................ 1
   f) Modern Physics PH 311-312 ................................. 6
   g) Optics PH 332, 333 ................................................... 6
   h) Optics Lab PH 334 .................................................... 1
   i) Senior Lab PH 481 ..................................................... 3

B. Programming ........................................................... 2
   a) Computer Programming Course, such as EN 104 or CS 122 .. 2

C. Math ....................................................................... 16
   a) Calculus Sequence M 204, 205, 206 ............................... 13
   b) Differential Equations M 331 ........................................ 3

D. Chemical C 131, 132, 133, 134 .................................. 9
E. General Zoology Z 130 .................................................. 5
F. General Botany BT 130 ................................................. 4
G. Recommended Electives ............................................. 6
H. Possible Earth Science Elective ..................................... 4

3. Education Requirements ........................................... 26-32
   a) Intro Sec Teach: Clsmn Obsl TE 172 .......................... 1
   b) Foundations of Education TE 201 .............................. 3
   c) Educ. Except Student TE 333 ..................................... 1
   d) Educational Technology TE 356 .................................. 2
   e) Educational Psychology TE 225 .................................. 3
   f) Read in Content Subjects TE 407 ............................... 3
   g) Secondary School Methods TE 384 ............................ 3
   h) Secondary School Teaching ..................................... 10-16

NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See Department of Teacher Education listing for more information.

PHYSICS MINOR
*Mechanics, Waves & Heat Lec & Lab PH 211, 212 ............... 5
Electricity, Magnetism & Optics Lec & Lab PH 213, 214 ....... 5
*Intro Modern Physics & Lab PH 309-310 ............................... 4
*Modern Physics PH 311, 312 .............................................. 6
One of the following ......................................................... 3-4
*Analog Electronics PH 301 .................................................. 4
*Optics PH 332-333-334 .................................................... 6
*Mechanics PH 341 .......................................................... 4
*Electology & Magnetism PH 381 ......................................... 3
*Advanced Topics PH 422 ................................................... 3
*Thermal Physics PH 432 .................................................... 3
*Math or other prerequisite.

PHYSICS MAJOR
Bachelor of Science Degree

FRESHMAN YEAR
English Composition E 101-102 ......................................... 3
Calculus & Analytic Geometry M 204-205 .......................... 5
Calculus & Analytic Geometry M 206-207 ......................... 5
Electives ........................................................................ 2
Electives ........................................................................ 3
Area I or II Requirements ............................................... 3

TOTAL ........................................................................... 15-16

SOPHOMORE YEAR
Electivity, Magnetism PH 381-382 ................................... 3
Intro Modern Physics PH 309-310 ................................. 4
Electives ........................................................................ 3
Electives ........................................................................ 3
Area I or II Requirements ............................................... 3
Area I or II Requirements ............................................... 3

TOTAL ........................................................................... 18

JUNIOR YEAR
Modern Physics PH 311-312 .......................................... 3
Electronics Lab PH 301 ..................................................... 4
Transducers PH 304 ......................................................... 4
Thermal Physics PH 432 .................................................... 3
Optics PH 332-333 .......................................................... 3
Optics Lab PH 334 .......................................................... 1
Math course .................................................................. 4
Area I or II Requirements ............................................... 3
Area I or II Requirements ............................................... 3

TOTAL ........................................................................... 16-18

SENIOR YEAR
Electricity & Magnetism PH 381-382 ....................... 3
Mechanics PH 341 .......................................................... 4
Senior Lab PH 481 .......................................................... 3
Advanced Topics PH 422 ................................................. 3
Electives ........................................................................ 4
Area I or II Requirement ................................................. 3
Math course .................................................................. 4

TOTAL ........................................................................... 18

Course Offerings
See page 23 for definition of course numbering system

PS PHYSICAL SCIENCE
Lower Division

PS 100 FOUNDATIONS OF PHYSICAL SCIENCE (3-2-4)(AREA III). Selected
   concepts of matter and energy that are widely applicable toward understanding
   our physical environment. A one-semester course for non-Science majors.

Graduate

The department offers various graduate courses. See the Graduate College portion of
this Catalog for course descriptions.

PH PHYSICS
Lower Division

PH 100 A CULTURAL APPROACH TO PHYSICS (3-3-4). Designed for liberal arts
   students. Students should gain an appreciation for the basic ideas in physics and
   how these ideas have contributed to the development of western culture by their
   influence on philosophy, religion and technology.

PH 101-102 GENERAL PHYSICS (3-3-4)(AREA III). Mechanics, sound, heat,
   light, magnetism, and electricity. This course satisfies the science requirement for
   the bachelor of arts and bachelor of science curricula, and may be taken by
   forestry, pre-dental and pre-medical students. PREREQ: Algebra and Trigonometry.

PH 105 INTRODUCTION TO DESCRIPTIVE ASTRONOMY (3-2-4)(AREA III).
   A study of galaxies, stars and planets and their physical relationships, beginning
   with our own solar system and moving outward. Several scheduled evening
   viewing sessions and planetarium visits are required. A one-semester course for non-Science majors.

PH 106 RADIOLOGICAL PHYSICS (2-2-3)(F). Fundamental concepts of radiation
   physics involving structure of the atom, radioactivity, electricity, magnetism, and
   electromagnetic radiation. Includes the physical principles of magnetic resonance
   and diagnostic ultrasound.

PH 109 (CS 109) INTRODUCTION TO COMPUTERS (3-2-4). The potential and
   limitations of computers, and their impact on society. The course includes an
   introduction to computer hardware and programming. Designed for non-Science majors.
PH 207 INTRODUCTION TO BIOPHYSICS (3-3-4S). A course relating physical principles to biological applications. Lectures stress concepts of atomic physics, basic electricity, energetics, heat and optics. The variety of instruments normally found in biological laboratories are used in lab to study biological systems. PREREQ: M 111 or M 108.


PH 212 MECHANICS, WAVES, AND HEAT LAB (0-3-1)/F(S)(AREA III). Lab to be taken with PH 211. Basic experiments in mechanics, wave motion, and heat. COREQ: PH 211.

PH 213 ELECTRICITY, MAGNETISM, AND OPTICS (4-1-4)/F(S)(AREA III). Coulomb's law, fields, potential, magnetism, induced emf, simple circuits, geometrical optics, interference, diffraction, and polarization. PREREQ: PH 211, M 205. COREQ: PH 214.

PH 214 ELECTRICITY, MAGNETISM, AND OPTICS LAB (0-3-1)/F(S)(AREA III). Lab to be taken concurrently with PH 213. Basic experiments in electricity, magnetism, and optics. COREQ: PH 213.

PH 225 INTERMEDIATE APPLIED PROGRAMMING (2-0-2)/(S). Science and engineering computer application with emphasis on procedural and object-oriented programming including graphics. An extensive, individual project is required. PREREQ: Computer programming experience. COREQ: M 205 or M 106. Credit cannot be obtained from both PH 225 and M 225.

Upper Division

PH 301 ANALOG ELECTRONICS (2-6-4)/F. An introduction to basic electronic test instrumentation and to some of the more common discrete semiconductor devices and integrated circuits. Included are diodes, silicon control rectifiers, transistors, operational and instrumentation amplifiers, voltage regulators, timers, and analog-to-digital converters. The devices will be utilized in simple electronic circuits for rectification, amplification, waveform creation and other applications. PREREQ: PH 214.

PH 304 TRANSUCERS (1-6-3)/S). An introduction to some common devices used to convert energy forms into electrical signals and their appropriate signal conditioning. Included are photomultiplier tubes, photoconductive cells, photodiodes, phototransistors, linear variable differential transformers, thermocouples, thermistors, Hall effect devices, strain gauges, piezoresistive elements. The IEEE-488 Bus and BUS Controller will be introduced and used throughout the course for data acquisition from the transducers. PREREQ: PH 225 & PH 301.

PH 309 INTRODUCTORY MODERN PHYSICS (3-0-3)/S). An introduction including wave motion with resonances, the Maxwell distribution, the special theory of relativity, plus atomic, molecular, solid state, nuclear, and elementary particle physics. PREREQ: PH 213, M 206. COREQ: PH 310.

PH 310 INTRODUCTORY MODERN PHYSICS LAB (0-3-1)/S). Lab to be taken concurrently with PH 310. Experiments with resonances and basic modern physics including some computer simulations. PREREQ: PH 213, M 206. COREQ: PH 309.

PH 311-312 MODERN PHYSICS (3-0-3)/F(S). Basic ideas and statistical methods of elementary quantum mechanics with applications to atomic, molecular, solid state, nuclear, and elementary particle physics. PREREQ: M 331 and either PH 309 or PERMINST.

PH 332-333 OPTICS (3-0-3)/F(S). An upper division course in geometrical and physical optics to include basics of electromagnetic theory, optical systems (including stops and pupils, lens aberrations, thick lenses, and fiber optics), polarization, interference, diffraction. Fourier optics, lasers, and holography. PREREQ: PH 213, M 311. COREQ: for PH 333 is PH 334.

PH 334 OPTICS LABORATORY (0-3-1)/S). Laboratory to be taken concurrently with PH 333. Experiments in optics to include optical systems, thick lenses, interference, diffraction, polarization, Fourier optics, image processing, and holography. COREQ: PH 333.

PH 341 MECHANICS (4-0-4)/F/S). An upper division course which approaches classical mechanics with the aid of vector calculus and differential equations. Numerical techniques and computer applications will be used. PREREQ: M 331 and PH 211.

PH 381-382 ELECTRICITY AND MAGNETISM (3-0-3)/F-S. Electrostatic fields, potentials, Gauss' law, solutions of Laplace's equation, electrodynamics of conductors and dielectric materials, vector potentials, Maxwell's equations, and electromagnetic radiation. PREREQ: PH 213, M 331.

PH 422 ADVANCED TOPICS (3-0-3)/F(S). Selected topics from the major fields of physics such as astrophysics, nuclear, solid state, solar applications, biophysics or medical physics. PREREQ: Upper Division standing and PERMINST and possible specific courses depending on topic. Offered on demand.

PH 432 THERMAL PHYSICS (3-0-3)/S). Discussion of temperature, work, specific heat and entropy. The laws of thermodynamics are discussed and applied to physical problems. Ideal gases, statistics, Gibb's free energy, and cryogenics. PREREQ: PH 213, M 331.

PH 481 SENIOR LAB (1-6-3)/F(S). A senior laboratory course designed to acquaint the student with concepts of modern physics, laboratory techniques and measurements. PREREQ: PH 312.

PH 482 SENIOR PROJECT (0-6-2)/S). 1 or 2 credits depending on the project. Elective. A sophisticated library or laboratory project in some area of physics or applied physics. PREREQ: PH 481.

PH 499 PHYSICS SEMINAR (1-0-1)/S). Individual reports on selected topics. PREREQ: Senior status.

Department of Theatre Arts

Morrison Center, Room C-100
Telephone (208) 385-3957

Chairperson and Associate Professor: Stephen R. Buss; Professors: Lauterbach, Shankweiler; Associate Professors: Atalakson; Assistant Professor: Hoste, Klaustch; Special Lecturer: Ceballos;

Degrees Offered

- BA in Theatre Arts
- BA in Theatre Arts, Secondary Education

Degree Requirements

THEATRE ARTS Bachelor of Arts Degree

General University Requirements except

1. Theatre Symposium TA 010, required each semester of every Theatre Arts Major.
2. Fitness Activity Courses (as recommended by Advisor, fencing, dance, gymnastics, etc.) ..... 2
3. Area I Credits 12
4. Area II Credits 12
5. History of Western Civilization HY 101, 102

The Department recommends that Theatre Arts Majors take one year of Foreign Language and Reading and Study Skills TE 108.

Bachelor of Arts Degree

Major Subject Requirements

Theatre Symposium TA 010 0
Play Analysis TA 105 3
Introduction to Theatre TA 107 3
Technical Theatre TA 117-118 8
Acting (Lower Division) TA 215 3
Major Production Participation TA 231 2
Stage Voice TA 233 2
World Drama TA 341, 342 6
Directing TA 401 3
Theatre History TA 421, 422 6
Contemporary Theatre TA 445 3

TOTAL 39

The above Theatre Arts basic courses will be required of all students. In addition the student will select one of the following options no later than the end of the Sophomore year:

I. PERFORMANCE OPTION

Acting TA 216, TA 311 6
Stage Voice TA 234, TA 335 4
Movement & Dance Perform Artist TA 412 3
Major Production Participation TA 331 2

TOTAL 15

II. DESIGN OPTION

Elements of Scene Design TA 351 3
Costume Design TA 352 3
Stage Lighting Design TA 362 3
Drawing AR 111 or Stage Make-up TA 162 2 or 3
Major Production Participation TA 331 2

TOTAL 13 or 14

III. PLAYWRITING/Criticism

Playwriting TA 340 (Two Semesters) 6
Acting TA 216 3
Stage Voice TA 234 2
Major Production Participation TA 331 2

TOTAL 11

IV. DIRECTING

Directing TA 402 3
Acting TA 216 3

TOTAL 3
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage Voice TA 234</td>
<td>2</td>
</tr>
<tr>
<td>Elements of Scene Design TA 351</td>
<td>3</td>
</tr>
<tr>
<td>Major Production Participation TA 331</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

### THEATRE ARTS, SECONDARY EDUCATION

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theatre Symposium TA 010</td>
<td>0</td>
</tr>
<tr>
<td>Play Analysis TA 105</td>
<td>3</td>
</tr>
<tr>
<td>Intro To Theatre TA 107</td>
<td>3</td>
</tr>
<tr>
<td>Technical Theatre TA 117-118</td>
<td>8</td>
</tr>
<tr>
<td>Acting TA 215-216</td>
<td>6</td>
</tr>
<tr>
<td>Major Production Participation TA 231-331</td>
<td>4</td>
</tr>
<tr>
<td>Stage Voice TA 233-234</td>
<td>4</td>
</tr>
<tr>
<td>Movement &amp; Dance for Performance Art TA 212 or 412</td>
<td>3</td>
</tr>
<tr>
<td>Meth Teach Second Schl Theatre TA 318</td>
<td>2</td>
</tr>
<tr>
<td>World Drama TA 341</td>
<td>3</td>
</tr>
<tr>
<td>Elem of Scenic Design TA 351</td>
<td>3</td>
</tr>
<tr>
<td>Directing TA 401-402</td>
<td>6</td>
</tr>
<tr>
<td>Theatre History TA 421 or 422</td>
<td>3</td>
</tr>
<tr>
<td>Theatre Management TA 440</td>
<td>3</td>
</tr>
<tr>
<td>Shakespeare E 345 or 346</td>
<td>3</td>
</tr>
<tr>
<td>*Theatre Art Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

*Chosen from: TA 162, 352, or TA 362.

### SOPHOMORE YEAR

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
</tr>
<tr>
<td>Theatre Symposium TA 010</td>
<td>0</td>
</tr>
<tr>
<td>Play Analysis TA 105</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Theatre TA 107</td>
<td>3</td>
</tr>
<tr>
<td>Technical Theatre TA 117-118</td>
<td>4</td>
</tr>
<tr>
<td>Acting TA 215</td>
<td>3</td>
</tr>
<tr>
<td>Stage Voice TA 233</td>
<td>2</td>
</tr>
<tr>
<td>Fitness Activity</td>
<td>1</td>
</tr>
<tr>
<td>Area III Core</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

#### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theatre Symposium TA 010</td>
<td>0</td>
</tr>
<tr>
<td>TA Option TA 216 or TA 351</td>
<td>0</td>
</tr>
<tr>
<td>TA Option TA 234 or AR 111</td>
<td>2</td>
</tr>
<tr>
<td>Area III Core</td>
<td>2</td>
</tr>
<tr>
<td>Major Production Participation TA 231</td>
<td>1</td>
</tr>
<tr>
<td>Movement &amp; Dance for Performance Art TA 212/412</td>
<td>3</td>
</tr>
<tr>
<td>History of Western Civilization TA 101, 102</td>
<td>3</td>
</tr>
<tr>
<td>Area I Core</td>
<td>3</td>
</tr>
<tr>
<td>Literature Elective Area I Core</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theatre Symposium TA 010</td>
<td>0</td>
</tr>
<tr>
<td>World Drama TA 341</td>
<td>3</td>
</tr>
<tr>
<td>Stage Movement TA 412</td>
<td>4</td>
</tr>
<tr>
<td>Scene Design TA 351</td>
<td>3</td>
</tr>
<tr>
<td>Educational Psychology TE 225</td>
<td>3</td>
</tr>
<tr>
<td>Educ Except Secondary Student TE 333</td>
<td>1</td>
</tr>
<tr>
<td>Read in Content Subjects TE 407</td>
<td>3</td>
</tr>
<tr>
<td>Area I Core</td>
<td>3</td>
</tr>
<tr>
<td>Area II Core</td>
<td>3</td>
</tr>
<tr>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>Intro to Art or Music AR 103, MU 133</td>
<td>3</td>
</tr>
<tr>
<td>Major Production Participation TA 331</td>
<td>1</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

#### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theatre Symposium TA 010</td>
<td>0</td>
</tr>
<tr>
<td>Theatre History TA 421</td>
<td>3</td>
</tr>
<tr>
<td>Educational Technology TE 356</td>
<td>3</td>
</tr>
<tr>
<td>Secondary School Methods TE 381</td>
<td>3</td>
</tr>
<tr>
<td>Directing TA 401-402</td>
<td>3</td>
</tr>
<tr>
<td>Theatre Management TA 440</td>
<td>3</td>
</tr>
<tr>
<td>Secondary Student Teaching</td>
<td>10</td>
</tr>
<tr>
<td>Theatre Arts Electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

*NOTE: Completion of all requirements for graduation with a secondary education option may require more than 128 credit hours. See Department of Teacher Education listing for more information.*

### THEATRE ARTS MINOR

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical Theatre TA 117</td>
<td>4</td>
</tr>
<tr>
<td>Acting I TA 215</td>
<td>3</td>
</tr>
<tr>
<td>Technical Theatre TA 118</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>20</strong></td>
</tr>
</tbody>
</table>

#### ENGLISH MINOR FOR THEATRE ARTS

Secondary Education Option: See recommended minor listed in this Catalog under the English Department heading.

**Liberal Arts Option:**
- Lower Division Literature: 9 credits
- One of the following: 3 credits
  - Nonfiction Writing E 201
  - Poetry Writing E 205
  - Fiction Writing E 206
- Upper Division Electives other than English: 6 credits
- Department Drama Courses: 6 credits
- Shakespeare: Tragedies & Histories E 345: 3 credits
- Shakespeare: Comedies and Romances E 346: 3 credits

**Total in English Minor for Theatre Arts Major:** 24 credits
Course Offerings

See page 23 for definition of course numbering system

TA THEATRE ARTS

TA 101 THEATRE SYMPOSIUM (0-0-3)(F/S). A forum for the presentation and discussion of appropriate theatre-related topics and activities. Class meets weekly. Required of full time Theatre Arts majors each semester, but open to any person. Theatre Arts majors may miss no more than four sessions in one semester.

TA 105 PLAY ANALYSIS (3-0-3)(F/S). Analysis of plays, both modern and historical to provide tools for the student to read a text critically and creatively for use in production.

TA 107 INTRODUCTION TO THEATRE (3-0-3)(AREA I). A survey course designed to stimulate an appreciation of drama and allied art forms, through the study of the history of theatre, dramatic literature and production techniques.

TA 117-118 TECHNICAL THEATRE (3-4-4)(F/S). Provides the student with a practical knowledge and skill in the principles of the technical aspects of theatre; the mechanical characteristics of the stage and the elements used in productions, development of drafting skills, problem solving in staging, and the rudiments of lighting and design. Three hours of lecture plus four hours of lab per week required.

TA 162 STAGE MAKE-UP (3-0-3)(F). Investigation and production analysis of stage makeup; the relationship of actor to play and audience, an integration of make-up and other technical aspects that influence this particular art. Practical application emphasized.

TA 212, 412 MOVEMENT AND DANCE FOR THE PERFORMING ARTIST (3-0-3). For the theatre student and the experienced dancer. The first half of the semester covers improvisation, simple choreography and ballet barre work. The second half covers jazz warm-ups and choreography, culminating in a formal performance. The second half requires much out-of-class work. The class may be repeated once for credit. Maximum credits: 6.

TA 215-216 ACTING (1-2-3). Entails study of and practice in the basic principles, terminology, and disciplines of the acting art. Fundamentals of speech and movement for the actor, appraisal and analysis of stage techniques, acting theories and practices, and recent internationally representative roles are investigated. Concomitant enrollment in TA 233 required for Theatre Arts majors enrolled in TA 215, and in TA 234 for Theatre Arts majors enrolled in TA 216.

TA 220 CINEMA: HISTORY AND AESTHETICS (3-0-3). An examination of the history and techniques of producing theatre for children. Specific emphasis on a single script selected for production and off-campus touring to local elementary schools.


TA 288 TOURING CHILDREN'S THEATRE (3-0-3)(S). A concentrated study of the history and techniques of producing theatre for children. Specific emphasis on a single script selected for production and off-campus touring to local elementary schools.

Lower Division

TA 311 ADVANCED ACTING (3-0-3)(F). Intensive study in the problems of the actor in Classical Drama, Shakespearean Drama, Restoration Comedy and the modern realistic play. Skills and techniques are applied to the production of actual scenes of the categorized type. PREREQ: TA 215-216 or PERM/INST. Alternate years. Concomitant enrollment in TA 334 required for Theatre Majors.

TA 318 METHODS OF TEACHING SECONDARY SCHOOL THEATRE (2-0-2)(S). Study of methods of teaching acting, play structure and theatre production at the secondary level. Twenty hours of directed observation required. PREREQ: TA 105, TA 216, TA 212 or TA 412.

TA 335 STAGE VOICE (2-0-2)(F/S). Advanced dialects and "character" voices. Interpretative work on vocal reaction in scene studies, verse drama, and Shakespeare. Final overview and individual analysis. PREREQ: TA 234 or PERM/INST.

TA 340 PLAYWRITING (3-0-3)(F). Experience in creating a play script for the theatre, culminating in the construction and staged reading of an original one-act. May be repeated for credit.

TA 341 WORLD DRAMA 500 BC-1642 (3-0-3)(F). Study of outstanding selections of dramatic literature. The plays are studied from a theatrical point of view, i.e., they are approached as scripts intended for production as well as examples of literary form.

TA 342 WORLD DRAMA 1642-1960 (3-0-3)(S). Study of outstanding selections of dramatic literature. The plays are studied from a theatrical point of view, i.e., they are approached as scripts intended for production as well as examples of literary form.

TA 351 ELEMENTS OF SCENIC DESIGN (3-0-3)(F). Major skills of beginning design. Included will be art techniques for the theatre, research in major periods of scenic design, examination of major designers' works, and practical experience in designing for all major types of stages. PREREQ: TA 117-118.

TA 352 COSTUME DESIGN (3-0-3)(S). Major skills of beginning costume design, included will be art techniques for theatre, research in major periods of costume design, examination of major costume designers, works and practical experience in designing for all manner of productions. PREREQ: TA 117-118. Alternate years.

TA 362 STAGE LIGHTING DESIGN (3-0-3). A study of the theories, principles and practices of stage lighting including both aesthetic conception and practical application. Script analysis and lighting theory applied to actual designs for various stages and productions. PREREQ: TA 117-118. Alternate years.

TA 401-402 DIRECTION (3-0-3). Basic theory and techniques of stage directing. Includes the direction of scenes and one-act plays. Special problems of directing are presented. PREREQ: Upper Division standing.

TA 415 ACTING STYLES (3-0-3)(F/S). This studio course is a concentrated study in acting styles; scene work from Shakespeare, Restoration, Moliere and absurdists. PREREQ: TA 215, TA 216, and TA 311. May be repeated for credit.

TA 421-422, 421G-422G THEATRE HISTORY (3-0-3)(F/S). Investigation of the periods of major importance in the development of theatre. The first semester will include the period from 800 BC through Elizabethan; the second semester from the Elizabethan period through mid 20th century.

TA 440 THEATRE MANAGEMENT (3-0-3)(S). Operational procedures for high school, university, community and professional theatre. Includes consideration of organization, personnel, budgeting, purchasing, accounting, ticket sales, publicity, audience development, house management and season development. (Even numbered years.)

TA 445 CONTEMPORARY THEATRE (3-0-3)(S). A study of world theatre and drama since 1960 with an emphasis on current research materials and techniques. Alternate years.

TA 491 SENIOR PROJECTS (0-0-3)(F). The student will prepare and execute a major creative task in theatre. The student will completely research, plan and execute a theatrical endeavor relative to his emphasis in theatre, culminating with a formally written evaluation of the entire experience. The project, upon completion, will be evaluated and graded by every appropriate faculty member. PREREQ: PERM/CHMN.
The College of Business at Boise State University is comprised of the five academic departments whose programs are described on the following pages and three Centers:

- Center for Management Development: James A. Acee, Director
- Idaho Business and Economic Development Center: Ronald Hall, Director
- Center for Economic Education: Gerald F. Draayer, Director

The primary mission of the College of Business is to educate students and professionals for business leadership in a global economy. This mission and the expectations inherent in the College's designated leadership role in business and economics by the State Board of Education require programs of increasing quality in instruction, basic and applied research and service.

**Accreditation**

The College of Business was recently re-accredited by the American Assembly of Collegiate Schools of Business at both the undergraduate and graduate levels. This is a distinction held by less than 20 percent of the 1,200 institutions that grant business degrees nationally.

The College of Business also received additional confirmation of the high quality of its baccalaureate accounting program when the AACSB granted initial accreditation to the accounting program. This accomplishment numbers this program among only 93 so recognized nationally.

**Student Advising**

Students are assisted in their selection of appropriate courses and a business major through the joint efforts of the College's Student Services Center and faculty advisors. Freshman and sophomore students should contact the College of Business Student Services Center Director, Janet M. Centanni in the business building, room 203 (telephone 208-385-3859).

**Student Scholarships**

Scholarships are available to students demonstrating ability to achieve excellence in business studies. Over $113,000 will be distributed each year among College of Business majors. Students must submit the appropriate applications by March 1. Interested students should contact Student Financial Aid Services at 208-385-1664.

**Student Organizations**

Beta Alpha Psi, national accounting; Alpha Kappa Psi, national business fraternity; Data Processing Management Association, Association of Data Processing Professionals; Omicron Delta Epsilon, economics; Financial Management Association, finance; Human Resource Association, management; Entrepreneur Club, management; Phi Sigma Epsilon, national marketing fraternity; Delta Epsilon, national marketing fraternity; Delta Epsilon Chi, mid-management; and Ad Club, marketing; are some of the...
campus organizations that offer students a chance to expand their educational opportunities. In addition, the College of Business has a chapter of Beta Gamma Sigma (BGS), the national scholastic honor society for business students. BGS chapters are chartered only at AACSB accredited business colleges.

Special Requirements and Options

The Bachelor of Business Administration (BBA) degree is available by completing all requirements for that degree as described in the Baccalaureate Degrees section of this Catalog and listed on the following pages under the appropriate major. Additionally, College of Business students may qualify, at their option, for the BA or BS degree by completing the additional Liberal Arts or Science course requirements for those degrees. Faculty advisors should be consulted about these additional requirements.

Transfer of Credits: In general, the College of Business limits transfer of credits for business courses which apply to business degree requirements only to such courses as it offers at the same level. In other words, a lower division transfer course cannot be accepted to satisfy an upper division requirement of the College of Business. Department Heads may authorize validation of such lower division courses by certain techniques such as CLEP, departmental competency examinations, and/or special permission to enroll in higher level classes for which the course in question is a prerequisite. See the Department Head for details.

Internships: Boise area companies and governmental institutions provide exceptional opportunities for students to develop business skills in a "real world" environment. Students' internship assignments are jointly supervised by company management and BSU College of Business faculty members. Academic credit is awarded and financial compensation is possible.

Upper Division Admission

Administrator: Janet M. Centanni
Business Building, Room 203
Telephone (208) 385-3859

The College of Business requires admission to upper division standing by petition for all business majors. (This excludes the BA degree majors in Economics: Quantitative Emphasis; Social Science Emphasis; and Social Science, Secondary Education.) All business majors are therefore required to meet the following "Minimum Criteria for Upper Division Admission" prior to enrolling in upper division College of Business courses. Business majors enrolling in upper division College of Business courses without upper division standing will be administratively withdrawn.

Minimum Criteria for Upper Division Admission

1. Admission to Boise State University
2. Successful completion of these lower division core courses (or equivalent courses): English E 101-102, Mathematics M 105 or 111 and M 106 or 204, Economics EC 205-206, Accounting AC 205-206, Legal Environment of Business GB 202, Statistics PR 207, with grades of C or better.
3. Cumulative GPA of at least 2.4.
4. Completion of at least 58 credit hours, including courses in progress the application semester.
5. Selection of an authorized major.
6. Application with transcript by October 1 for Spring semester and March 1 for Summer or Fall semesters.

Bachelor Degree Programs

NOTE: The student will find under each major the particular course of study to follow. Where the designation "Core Electives" appears, refer to the allowed listing of courses in the General University Requirements (Core) section of this Catalog. Where the designation "Non-Business Electives" appears, lower or upper division courses are to be chosen in any discipline other than those administered in the College of Business, but must include hours from at least two of the three defined areas: Area I, II, or III. The designation "Free Electives" refers to those hours which may be earned in courses offered by the College of Business or other academic units.

Graduation Requirements: See the Baccalaureate Degrees section of the Catalog for a complete listing of these requirements for the BBA, BA, and BS degrees. All students are cautioned that upper division standing is a prerequisite for enrollment in 300 and 400 level courses and that several of the lower division courses listed above are specific prerequisites for certain upper division Courses in the College of Business.

The College of Business Baccalaureate candidates are required to complete the following upper division courses with grades of "C" or higher prior to GB-450, Business Policies, which is also a required core course: Management & Organizational Theory MG 301, Management PR 345 Principles of Marketing MK 301, Intro to Management Information Systems IS 310

The one exception to this requirement is in the BA in Economics program as described in the Catalog.

Accounting Minor

A student pursuing a Degree from the College of Business at Boise State University may earn a minor in Accounting by satisfying the requirements listed below in addition to their major requirements.

REQUIRED COURSES:
Intro Financial Accounting AC 205 .......... 3
Intro Managerial Accounting AC 206 .......... 3
Principles of Income Taxation AC 302 .......... 3
Intro Accounting I AC 304 .......... 3
Intro Accounting II AC 306 .......... 3
Cost Accounting AC 351 .......... 3

ELECTIVE COURSES: Any one of the following:
Anal, Design & Aud Acctg Inform Syst AC 350 .......... 3
Managerial Accounting AC 352 .......... 3
Advanced Income Taxation AC 402 .......... 3
These courses must be completed with a grade of "C" or better.

Business Minor

Students pursuing a Business Minor are required to register with the Student Services Center in the College of Business. A student pursuing a non-business major at Boise State University may earn a Business Minor by satisfying the requirements listed below in addition to their major requirements.

English Composition E 101-102 .......... 6
Math for Business Decisions M 105-106 .......... 8
The student must substitute the two-semester mathematics sequence which is required in their major field.

Statistical Techniques for Decision Making PR 207 .......... 3
The student may substitute the statistical techniques class required in their major field.

Prin of Microeconomics EC 205 .......... 3
Prin of Macroeconomics EC 206 .......... 3
Intro Financial Accounting AC 205 .......... 3
Intro Managerial Accounting AC 206 .......... 3
Legal Environment of Business GB 202 .......... 3
Intro to Management Information Systems IS 310 .......... 3
The student may substitute the computer literacy course required in their major field.

Upon completion of this set of classes, each with a grade of "C" or better, the student must then earn a "C" or better in any of the three selected classes.

Upper Division Business courses .......... 9

Economics Minor

Any BSU baccalaureate student may earn a minor in economics by satisfying the requirements listed below in addition to their major requirements.

REQUIRED COURSES:
Prin of Microeconomics EC 205 .......... 3
Prin of Macroeconomics EC 206 .......... 3
Intro Microeconomics EC 303 .......... 3
Intro Macroeconomics EC 305 .......... 3
ELECTIVE COURSES:
Any three of the following upper-division selected courses:
Money & Banking EC 301 .......... 3
Public Finance FI 310 .......... 3
History of Economic Thought EC 311 .......... 3
Comparative Economic Systems EC 315 .......... 3
International Economics EC 317 .......... 3
Regional Economics EC 321 .......... 3
Department of Accounting

Business Building, Room 214  
Telephone (208) 385-3461

Chairperson and Professor: William C. Lathen; Professor: Merz, Pirrong;  
Associate Professors: T. English, Koeppen, Medlin, Nix; Assistant  
Professor: D. English; Special Lecturers: Bates, Christensen, Demaree.

Degrees Offered  
• BBA, BA, and BS in Accounting

Department Statement

The Department of Accounting at Boise State University has over 600  
undergraduate majors. There are many professional opportunities available  
for college graduates with an accounting background and the demand for graduates is high.

Members of the accounting faculty possess impressive credentials. There are twelve full-time faculty. Eight have completed the doctorate; all are Certified Public Accountants; and three are Certified Managerial Accountants. Their research is recognized through publication in many professional and academic journals. Most of the faculty have extensive relevant experience in industrial, public, and governmental accounting.

The objectives of the accounting program are:
1. To provide students with the technical and interpersonal skills that will permit them to secure successful career opportunities in public accounting, industry, or in the public sector.
2. To provide students with a general education that will enable them to function as responsible citizens within our socio-economic environment. This includes an understanding of their professional, ethical, and social responsibilities.

A key goal is to provide a foundation for motivated graduates to progress rapidly into responsible positions. To accomplish this, the accounting program is intended to develop and enhance a student's critical thinking, judgment, and communication skills. The curriculum requires extensive application of oral and written skills, analytical practice sets, and the exercise of professional judgment and decision-making. The use of the microcomputer in the learning process is paramount, particularly with the use of electronic spreadsheets as a tool for analysis, problem-solving, and modeling.

The accounting degree requires a comprehensive 134-hour program of studies. The program includes a minimum of 55 hours of broad-based education, including communications, mathematics, humanities, social sciences, and natural sciences; 42 hours of study in the common body of knowledge in business and economics; 30 credit hours of accounting; and 7 hours of free electives.

Because the rigor and intensity of the upper division accounting program, students are strongly urged to consult with their advisor before entering upper division to develop an individual plan.

Recommended Program

ACCOUNTING PROGRAM
Bachelor of Business Administration Degree

FRESHMAN YEAR

**Principles of Microeconomics EC 205 3**
**Principles of Macroeconomics EC 206 3**
**Intro to Managerial Accounting AC 206 3**
**Intro to Financial Accounting AC 205 3**
**Fund of Speech Communication CM 111 3**
Core Electives (AREA I-6, II-3) 6 3
Non-business electives 3 3
Total 16 16

SOPHOMORE YEAR

**Fund of Speech Communication CM 111 3**
**Principles of Macroeconomics EC 206 3**
**Intro to Managerial Accounting AC 206 3**
**Intro to Financial Accounting AC 205 3**
**Fund of Speech Communication CM 111 3**
Core Elective (AREA III) 3 7
Non-business Electives 3 3
Total 16 16

JUNIOR YEAR

Intermediate Accounting I,II AC 304-306 3 3
Cost Accounting AC 351 3
Anal. Design & Audit of Acctg Info Systems AC 350 3
Intermediate Microeconomics EC 303 3
Business Communication AS 328 3
Intro Mgmt Information Systems IS 310 3
Management & Organizational Theory MG 301 3
**Intro to Managerial Accounting AC 206 3**
**Intro to Financial Accounting AC 205 3**
**Principles of Microeconomics EC 205 3**
**Principles of Macroeconomics EC 206 3**
**Legal Environment of Business GB 202 3**
Non-business electives 3 3
Total 15 15

SENIOR YEAR

Prin of Income Taxation AC 302 3
Organizational Behavior MG 401 3
Business Policies CB 450 3
Advanced Income Taxation AC 402 3
Auditing AC 405 3
Accounting Theory AC 440 3
Principles of Marketing MK 301 3
Principles of Finance FI 303 3
**Intro to Managerial Accounting AC 206 3**
**Intro to Financial Accounting AC 205 3**
**Principles of Microeconomics EC 205 3**
**Principles of Macroeconomics EC 206 3**
**Legal Environment of Business GB 202 3**
General Electives 4 3
Total 16 15

5TH YEAR*

Commercial Law GB 302 3
**Accounting Electives 3**
**Total Credits Required for Major** 134

*We urge that you do not try to "fit" your entire accounting degree program into a 4 year sequence, unless you attend one or more summer sessions.

**Core Courses: The following courses are prerequisites for all Upper Division Accounting courses: AC 205-206, EI 101-102, EC 205-206, PR 207, CB 202, plus M 105-106 or M 111-204.

**Accounting electives are to be chosen from: AC 352, 466, 407, 450, 465.

Mathematics M 105-106 or M 111-204 4 4
Fund of Speech Communication CM 111 3
Core Electives (AREA I-6, II-3) 6 3
Non-business electives 3 3
Total 15 15

TOTAL CREDITS REQUIRED FOR MAJOR 134

Accounting majors should plan to take an appropriate professional examination during or immediately following their last semester. Accordingly, students should anticipate 200-300 hours of intensive study for that examination. (This is roughly...
These courses must be completed with a grade of "C" or better.

ACCOUNTING MINOR
A student pursuing a degree from the College of Business at Boise State University may earn a minor in Accounting by satisfying the requirements listed below in addition to their major requirements.

REQUIRED COURSES:
- Intro Financial Accounting AC 205
- Intro Managerial Accounting AC 206
- Prin of Income Taxation AC 302
- Intern Accounting I AC 304
- Intern Accounting II AC 306
- Cost Accounting AC 351

ELECTIVE COURSES: Any one of the following courses:
- Advanced Cost Accounting AC 352
- Advanced Auditing AC 406
- Internship AC 493

This option requires 18 semester credit hours.

ELECTIVE COURSES:
- CAN 206 INTRODUCTION TO MANAGERIAL ACCOUNTING (3-0-3)(F/S).
- Course Offerings
- AC 206 INTRODUCTION TO MANAGERIAL ACCOUNTING (3-0-3). Introduction to contemporary Financial Accounting in the business world. Emphasis is on obtaining an understanding of how financial statements are prepared and used. Includes the basic terminology, a theoretical framework and the double entry accounting system.
- AC 206 INTRODUCTION TO MANAGERIAL ACCOUNTING (3-0-3)(F/S). Introduction to contemporary Financial Accounting in the business world. Emphasis is on obtaining an understanding of how financial statements are prepared and used. Includes the basic terminology, a theoretical framework and the double entry accounting system.
- AC 206 INTRODUCTION TO MANAGERIAL ACCOUNTING (3-0-3)(F/S). Introduction to contemporary Financial Accounting in the business world. Emphasis is on obtaining an understanding of how financial statements are prepared and used. Includes the basic terminology, a theoretical framework and the double entry accounting system.
- AC 304 INTERMEDIATE ACCOUNTING I (3-0-3)(F/S). The course includes the study of financial reporting, including the effects of economic, legal, political, social and ethics influences on the formulation of generally accepted accounting principles. A comprehensive analysis of basic financial reporting, including the preparation of the statements of income and financial position. In-depth study of current and noncurrent assets and liabilities plus stockholder's equity. Lotus 1-2-3 is used as a tool in analyzing complex reporting problems. PREREQ: Upper Division Business standing and AC 306.
- AC 306 INTERMEDIATE ACCOUNTING II (3-0-3)(F/S). Continuation of AC 304. Operational, fixed and intangible assets are covered. Also covered are: accounting for stockholders' equity, accounting changes, long-term investments in equity securities and price level changes. PREREQ: Upper Division Business standing and AC 304.
- AC 320 TAX FACTORS IN BUSINESS DECISIONS (3-0-3). Introduction to impact of federal income taxes on business operating and financing decisions. Degree credit not allowed for both AC 320 and AC 302. Offered when possible. PREREQ: Upper Division Business standing and AC 306.
- AC 350 ANALYSIS, DESIGN, AND AUDIT OF ACCOUNTING INFORMATION SYSTEMS (3-4-3/F). The purpose of this course is to provide an introduction to accounting information systems. Topics covered include: general systems theory, (2) the records, documents, procedures and controls found in the primary manual and computerized systems, (3) the approaches, methods and tools useful for designing, developing, implementing and controlling accounting information systems, and (4) hands-on experience with microcomputer-based, database, spreadsheet, and pre-audit software applications. The ethical dimensions of these topics are also considered. PREREQ: Upper Division Business standing and AC 304.
The curriculum is at the forefront of developments in each field and has been updated to reflect many changes that have occurred. Students will be challenged with the most current thinking in their discipline.

There is a great deal of involvement with local organizations. Our department has advisory boards of business leaders who work with the dean to enhance our educational mission. A number of internships are offered and students are encouraged to take advantage of such a unique learning experience. Most instructors bring into class experienced professionals as guest lecturers. Many classes also require projects involving field work, in addition to on-site tours at local firms.

Student organizations provide leadership opportunities as well as educational programs. The student chapter of the Data Processing Management Association (DPMA) has had a tradition of serving the educational, social, and professional needs of our CIS majors. The newly formed Production and Operations Management Association will offer similar advantages to POM students.

After graduation, our students will join a distinguished group of alumni, many of whom hold key positions at some of our nation's best organizations. Many of our alumni are actively involved in supporting our programs.

Technology, global competition, and the demand for greater productivity are changing the nature of business. Graduates of our CIS and POM programs will receive an education to help prepare for exciting and challenging leadership career positions to bring about change.

Recommended Programs

**COMPUTER INFORMATION SYSTEMS MAJOR**
**Bachelor of Business Administration Degree**

Computer Information Systems (CIS) is a field of study merging several different disciplines such as organizational behavior, management, accounting, management science, and computing technology. The central focus of CIS is the development and maintenance of information technology to support organizational business processing and decision-making activities. The basic purpose of the program is to prepare students for careers in providing information technology services. For example, a CIS major would have a number of career tracks to consider including systems analysis and development, information center service, operations, communications specialist, and information resource management. The CIS program provides thorough education in computer and general business, along with a broad background in the arts and sciences. The CIS program emphasizes a balance between technological, human, and organizational considerations involving the application of information technology.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics M 105-106 or M 111-204</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Core Electives (Area I, II, III)</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Non-Business Electives</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Microeconomics EC 205</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Principles of Macroeconomics EC 206</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Statistical Techniques I &amp; II PR 207-208</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Financial Accounting AC 205</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Introduction to Managerial Accounting AC 206</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>End-User Computing IS 217</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Intro to Business Applications IS 221</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Legal Environment of Business GB 202</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Core Electives (Area I, II, III)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>15</td>
<td>18</td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost Accounting AC 351</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Management &amp; Organizational Theory MG 301</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Database Management Systems IS 317</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Principles of Marketing MK 301</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Business Communications AS 328</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Systems Analysis and Design IS 320</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Finance FI 303</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Principles of Production Management PR 345</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Business Ethics &amp; Social Responsibility GB 360</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>CIS Major Elective</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS Major Electives</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Organizational Behavior MG 401</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Manufacturing Systems PR 408</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Information Resource Management IS 490</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Business Policies GB 450</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>*International Business Elective</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Non-Business Electives</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>


**PRODUCTION AND OPERATIONS MANAGEMENT**
**Bachelor of Business Administration**

The Production and Operations Management (POM) major is dedicated to insuring United States manufacturing and service industries are highly productive and competitive in today's global economy. To accomplish this objective, the POM major integrates fundamentals from most of the functional areas of business such as information management, finance, economics, accounting, and marketing with the analytical techniques and skills necessary for competent decision making. Classes emphasize quality and productivity through real applications and interaction with practitioners from local businesses and government. Students are encouraged to add depth to their study through internships and directed independent study. Graduates should be especially well prepared for advancement to decision making positions in either the private or public sector.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Fund of Speech Communication CM 111</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Intro to Logic PY 221 (AREA I)</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Mathematics M 105-106 or M 111-204 (AREA III)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Computer Applications IS 101</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Core Electives (Area I, II, III)</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>17</td>
<td>16</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legal Environment of Business GB 202</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Intro to Financial &amp; Managerial Accounting AC 205-206</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Microeconomics EC 205</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Macroeconomics EC 206</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Statistical Techniques I, II PR 207-208</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Non-Business Electives</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Information Systems IS 310</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Principles of Marketing MK 301</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Principles of Production Management PR 345</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Principles of Finance FI 303</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Management &amp; Organizational Theory MG 301</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Business Ethics &amp; Social Responsibility GB 360</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Quality Control Techniques PR 380</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Business Communications AS 328</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Management Science Models PR 366</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Cost Accounting AC 351</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Non-Business Electives</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td><strong>Free Electives</strong></td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>16</td>
<td>18</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organizational Behavior MG 401</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Manufacturing Systems PR 408</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Management of Service Operations PR 409</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Purchasing &amp; Distribution PR 416</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Decision Support Systems IS 455</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Business Policies GB 450</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Management of Technology MG 401</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Non-Business Electives</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Free Electives</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

**During the junior year, the department recommends that each Production and Operations Management major take POM 493 Internship for a minimum of 3 credits of free electives.**

**NOTE:** All courses in the major must be completed with a grade of "C" or higher.

**Course Offerings**

See page 23 for definition of course numbering system

**IS COMPUTER INFORMATION SYSTEMS**
IS 101 COMPUTER APPLICATIONS (3-0-3)(F,S). Application of computing for both microcomputers and mainframe are discussed. Particular attention is devoted to problem solving with computers through hands-on experience. Students will learn to use some of the most commonly used software for word processing, spreadsheet, database systems, communications, and graphics. This course is appropriate for members of the community and for students from any discipline wishing to gain familiarity with computers.

IS 217 END USER COMPUTING (3-0-3)(F,S). Addresses very high level languages such as "fourth generation languages" for business applications. Emphasis is on rapid development, incremental design, and prototyping "live" system. Hands-on use of very high level languages for homework and projects will be included. PREREQ: IS 101.

IS 221 INTRODUCTION TO BUSINESS APPLICATIONS PROGRAMMING (COBOL) (3-0-3)(F,S). Development of business applications in COBOL with structured programming concepts. Emphasis is structured program design, documentation, testing, and implementation issues. PREREQ: IS 101.

Upper Division

IS 310 INTRODUCTION TO MANAGEMENT INFORMATION SYSTEMS (3-0-3) (F,S). An introduction to the fundamental concepts of management information systems in business organizations. Management information is the framework tying together business decision makers in an organization. This course includes information systems concepts and planning; end-user computing, hardware, software, database systems; systems analysis, design, implementation; interface and user evaluation; data communications and networks; international, social, political, legal, ethical and ethical issues of MIS. PREREQ: Upper Division Business standing. Not required for CIS majors.

IS 317 DATABASE MANAGEMENT SYSTEMS (3-0-3)(F,S). Database organization, implementation, and administration in business environments. Topics include data structures and related algorithms; file and database organizations/models including relational hierarchical, and network; data dictionary systems; languages for data definition, manipulation, and retrieval; and administrative considerations in multi-user and distributed environments. PREREQ: Upper Division Business Standing, IS 217 and IS 221.

IS 320 SYSTEMS ANALYSIS AND DESIGN (3-0-3)(F,S). Utilization of methods for working with users to analyze and develop business applications. The life cycle of development, project management, process of interface with users, documentation, database interface, and productivity will be discussed. PREREQ: Upper Division Business standing, IS 217 and IS 221.

IS 361 BUSINESS APPLICATIONS PROGRAMMING (COBOL) (3-0-3)(F). Processing techniques and development of programs and systems for batch and interactive environments using features including sequential files, random access files, input editing, and advanced topics. PREREQ: Upper Division Business Engineering, and IS 221.

IS 380 TELECOMMUNICATIONS (3-0-3)(F). Discussion of telecommunications technology and managerial issues in a business environment. Topics include basic concepts of data communication, related hardware and software technology, standards and protocols, local and wide area networks, software and hardware technology. PREREQ: Upper Division Business standing.

IS 430 ADVANCED SYSTEMS DEVELOPMENT (3-0-3)(S). Use of computer-aided software development techniques including CASE, fourth generation languages, CASE, other development tools to facilitate systems development and implementation. PREREQ: Upper Division Business standing and IS 320.

IS 455 DECISION SUPPORT SYSTEMS (3-0-3)(F). Emphasis will be on the decision-making process, fundamentals of decision support systems technology, and related systems. Students will be expected to develop an application that supports management decision makers. PREREQ: Upper Division Business standing, and IS 320.

IS 490 INFORMATION RESOURCE MANAGEMENT (3-0-3)(S). A capstone course covering the management of the information systems function. Topics include the technical, operational, developmental and support functions, acquisitions and management of resources, organizational systems, human resource issues, human computing, ethical and legal considerations, and managing emerging technologies. PREREQ: Upper Division Business standing, IS 317 and IS 320.

IS 493 INTERNSHIP (Variable Credit) (F,S). Field learning in an MIS environment under supervision of both a manager and a professor. PREREQ: Upper Division Business standing, and IS 320 (or concurrent enrollment).

PR 207 STATISTICAL TECHNIQUES FOR DECISION MAKING I (3-0-3)(F,S). Designed to provide an understanding and working knowledge of the concepts and techniques pertaining to descriptive and inferential statistics. Business applications of such statistical concepts as the Binomial Normal and Normal distributions, interval estimates, and hypothesis testing are covered. PREREQ: M 106 or equivalent.

PR 208 STATISTICAL TECHNIQUES FOR DECISION MAKING II (3-0-3)(F,S). This course provides extensions to basic statistical inference with an emphasis on using the techniques for business decision making. Typical topics covered include analysis of variance, simple and multiple linear regression, forecasting, and nonparametric statistics. Established computer software is used, when appropriate, to assist in the learning process. PREREQ: PR 207.

PR 345 PRINCIPLES OF PRODUCTION MANAGEMENT (3-0-3)(F,S). Management of the production function: analysis, design, planning and control of production processes, plant location, design and layout, scheduling, time and motion study, quality control, material acquisition and systems theory. Quantitative techniques are considered. PREREQ: PR 207 and Upper Division Business standing.

PR 366 MANAGEMENT SCIENCE MODELS (3-0-3)(F,S). Management science/operations research tools are presented with an emphasis on applications and how they assist a decision maker. Typical topics covered include linear programming, network planning models, basic inventory control, waiting line management, and decision making under uncertainty. PREREQ: MG 301, PR 345, and Upper Division Business standing.

PR 380 QUALITY CONTROL TECHNIQUES (3-0-3)(S). This course focuses on quality control techniques such as control charts, variable and attribute sampling, total quality control, quality circles and Pareto analysis. U.S. and foreign companies that have been successful in implementing quality control systems are also considered. PREREQ: PR 345 and Upper Division Business standing.

PR 408 MANUFACTURING SYSTEMS (3-0-3)(F). This course extends the topics offered in the survey Principles of Production course. Course will further develop the concepts and theory behind manufacturing resource management, including the master schedule, bill of materials, and inventory records system. Other major topics include JIT (Just-in-Time manufacturing), computer-aided manufacturing, flexible manufacturing systems, and techniques used by international competitors. PREREQ: MG 301, PR 345, and Upper Division Business standing.

PR 409 MANAGEMENT OF SERVICE OPERATIONS (3-0-3)(S). The course applies the principles of production management to service operations. The problems associated with service operations will be considered and contrasted to those of production systems. Service systems include call centers, service organizations, the allocation of resources to customers, and the identification of elements of success. The case method will be used extensively. PREREQ: MG 301, PR 345, and Upper Division Business standing.

PR 416 PURCHASING AND DISTRIBUTION SYSTEMS (3-0-3)(F). This course introduces concepts associated with purchasing and distribution in manufacturing and service systems. Typical purchasing topics will include supplier selection, legal and ethical considerations, order size and timing. Typical distribution topics will include transportation modeling, carrier selection, materials handling, and flow analysis. PREREQ: MG 301, PR 345, and Upper Division Business standing.

PR 493 INTERNSHIP (Variable Credit) (F,S). Field learning in a Production and Operations Management environment under supervision of both a manager and a professor. PREREQ: Upper Division Business standing.

Department of Economics

Business Building, Room 311  Telephone (208) 385-3351

Chairperson and Professor: Peter M. Lichtenstein; Professors: Payne, Reynolds, Skoro, Twight; Associate Professors: Draayer, Loucks; Assistant Professors: Raha, Sauer.

Degrees Offered

- BA in Economics, International Economics Emphasis
- BA in Economics, Quantitative Emphasis
- BA in Economics, Social Science Emphasis
- BA in Economics, Social Science, Secondary Education
- BBA in Business Economics

Department Statement

Economics has been called "a study of mankind in the ordinary business of life." Economists study the means by which people and societies decide what sort of goods and services to produce, how they allocate resources to see that such production is carried out, and how they divide the income created in the process. Accordingly, economics courses deal with national economic health and the behavior of industries and individual firms as well as the decisions made by individuals in households and families. Over the years the body of theories and methods developed by economists has become an indispensable tool in household and business decision-making and in the formation of public policy.

Students who plan to enter the job market immediately after college find their degree useful in obtaining jobs in management and other areas where training in systematic thinking and competence in empirical analysis are prized. Economists Ryan Amacher and Holly Ulbrich noted that:

"Undergraduate economics majors are recruited by business firms in all size ranges, from small, local companies to the very largest multinational corporations. An economics degree prepares students to compete with students from marketing, management, and finance as well as with students that have liberal arts majors,
Many students who major in economics are planning to attend graduate school. A major in economics is excellent preparation for law school or MBA programs, or for graduate work in economics or other social sciences. Students planning on a career in teaching will also find a major in economics to be an excellent asset to bring into the job market.

BSU offers three paths to a degree in economics—a Bachelor of Arts, a Bachelor of Business Administration, and a Bachelor of Arts with a secondary education option. Those interested in a Bachelor of Arts degree in economics pursue, along with their work in economics, a program of instruction that concentrates in the social sciences, international studies or quantitative analysis. Each of these three programs leads to a Bachelor of Arts degree "option".

Students wanting more of a business emphasis follow a program of instruction leading to a Bachelor of Business Administration degree which includes, aside from the work in economics, all of the upper- and lower-division courses required of other College of Business students.

Students planning to enter secondary school teaching may choose to pursue a Bachelor of Arts degree with a secondary education option. These students do considerable work in economics along with concentrated work in two other social sciences and teaching methods.

The economics department has a long tradition of excellent scholarship and teaching. Faculty are consistently rated among the best teachers on campus and have been so for years. They are also known and respected by other economists throughout the region.

### Degree Requirements

#### ECONOMICS MAJOR

##### SOCIAL SCIENCE EMPHASIS

Bachelor of Arts Degree

1. TOTAL General University and Major Requirements: 128
2. Lower Division Courses (Total): 51
   - English Composition E 101-102 or E 111-112: 6
   - Literature (Area I Core): 3
   - Introduction to Philosophy PY 101: 3
   - *Other Arts and Humanities (Area I) Core Courses: 6
   - Principles of Microeconomics EC 205 or EC 205H: 3
   - Principles of Macroeconomics EC 206 or EC 206H: 3
   - History of Western Civilization HY 101-102 or Problems of Western Civilization HY 201-202: 6
   - Social Science (Area II) Core Course other than HY or EC: 3
   - Math M 105-106 or M 111-112: 8
   - Natural Science (Area III Core): 4
   - Intro Financial Accounting AC 205: 3
   - Statistical Techniques PR 207: 3
3. UPPER DIVISION COURSES (Total): 45
   - Intro to Management Information Systems IS 310: 3
   - Intermediate Microeconomics EC 303: 3
   - Intermediate Macroeconomics EC 305: 3
   - History of Economic Thought EC 311: 3
   - Econometrics EC 421-422: 3
   - Economics Electives: 6
   - **Upper-division social science electives: 15
4. ELECTIVES ***Lower or Upper Division: 32
   - * Must include at least one Area I field other than literature or philosophy.
   - ** Selected from psychology, political science, sociology, anthropology, geography, or history.
   - *** Among these courses must be at least 6 credits in Arts and Humanities (Area I) or non-economics Social Sciences (Area II). These courses need not be chosen from the list of core courses. They may be either lower or upper division.

Those students considering or planning on graduate study in economics should complete a calculus sequence (M 204-206 or M 211-212) and Linear Algebra (M 301).

### RECOMMENDED PROGRAM

#### FRESHMAN YEAR

1. 1st SEM
   - English Composition E 101-102 or E 111-112: 3
   - Math M 105-106 or M 111-112: 3
   - History HY 101-102 or 201-202: 3
   - Philosophy PY 101: 3
   - Area I core (third field): 3
   - Electives: 3
   - TOTAL: 16-17

2. 2nd SEM
   - English Composition E 101-102 or E 111-112: 3
   - Math M 105-106 or M 111-112: 3
   - History HY 101-102 or 201-202: 3
   - Philosophy PY 101: 3
   - Area I core (third field): 3
   - Electives: 3
   - TOTAL: 16-17

#### SOPHOMORE YEAR

1. 1st SEM
   - Prin of Microeconomics EC 205 or 205H: 3
   - Prin of Macroeconomics EC 206 or 206H: 3
   - Area I core (Literature): 3
   - Area II core (Science): 3
   - Area I core (third field): 3
   - Area II core (except EC or HY): 3
   - Electives: 3
   - TOTAL: 15-17

2. 2nd SEM
   - Prin of Microeconomics EC 205 or 205H: 3
   - Prin of Macroeconomics EC 206 or 206H: 3
   - Area I core (Literature): 3
   - Area II core (except EC or HY): 3
   - Math M 206 or Elective: 3
   - Statistics M 361 or PR 207: 3
   - TOTAL: 15-17

#### JUNIOR YEAR

1. Introduction to Philosophy PY 101: 3
2. *Other Arts and Humanities (Area I) Core Courses: 6
3. Principles of Microeconomics EC 205-205H: 3
4. Principles of Microeconomics EC 206-206H: 3
5. History of Western Civilization HY 101-102 or Problems of Western Civilization HY 201-202: 6
6. Social Science (Area II) Core Course other than HY or EC: 3
7. Calculus & Analytical Geometry M 204-205-206 or Accelerated Calculus M 211-212: 13-16
8. Probability and Statistics M 361 or PR 207-208: 4-6

#### SENIOR YEAR

1. Electives: 3-6
2. Electives: 3-6
3. Electives: 5-6
4. TOTAL: 15-16
5. TOTAL: 15-16
6. TOTAL: 15-16
7. TOTAL: 15-16
8. TOTAL: 15-16

#### ECONOMICS MAJOR QUANTITATIVE EMPHASIS

Bachelor of Arts Degree

1. TOTAL General University and Major Requirements: 128
2. LOWER DIVISION COURSES (Total): 50 or 53
   - English Composition E 101-102 or E 111-112: 3
   - Literature (Area I Core): 3
   - Introduction to Philosophy PY 101: 3
   - *Other Arts and Humanities (Area I) Core Courses: 6
   - Principles of Microeconomics EC 205-205H: 3
   - Principles of Microeconomics EC 206-206H: 3
   - History of Western Civilization HY 101-102 or Problems of Western Civilization HY 201-202: 6
   - Social Science (Area II) Core Course other than HY or EC: 3
   - Calculus & Analytical Geometry M 204-205-206 or Accelerated Calculus M 211-212: 13-16
   - Linear Algebra M 301: 4
   - Statistics M 361 or PR 207-208: 4-6
   - TOTAL: 15-16

3. UPPER DIVISION COURSES (Total): 46 or 48
   - Intermediate Microeconomics EC 303: 3
   - Intermediate Microeconomics EC 305: 3
   - History of Economic Thought EC 311: 3
   - Electives: 12
   - Intro to Management Information Systems IS 310: 3
   - Electricity M 301: 4
   - Statistics M 361 or PR 207-208: 4-6
   - Total: 15-16
   - Total: 15-16
   - Total: 15-16
   - Total: 15-16
   - Total: 15-16

#### RECOMMENDED PROGRAM

1. **FRESHMAN YEAR**
   - 1st SEM
     - English E 101-102 or E 111-112: 3
     - Math M 204-206 or M 211-212: 8
     - History HY 101-102 or HY 201-202: 3
     - Intro to Philosophy PY 101: 3
     - Area I core (third field): 3
     - Electives: 3
     - TOTAL: 15-16

   - 2nd SEM
     - English E 101-102 or E 111-112: 3
     - Math M 204-206 or M 211-212: 8
     - History HY 101-102 or HY 201-202: 3
     - Electives: 3
     - TOTAL: 15-16

2. **SOPHOMORE YEAR**
   - Prin of Microeconomics EC 205-205H: 3
   - Prin of Macroeconomics EC 206-206H: 3
   - Area I core (Literature): 3
   - Area II core (Science): 3
   - Intro Financial Accounting AC 205: 3
   - Area I core: 3
   - Area II core (except EC or HY): 3
   - Math M 206 or Elective: 3
   - Statistics M 361 or PR 207: 3
   - TOTAL: 15-16

---

*Data provided by the Department of Economics at BSU.*
The International Economics Option is a cooperative program involving fewer than 9 in each of these two disciplines; and (3) language competency will lead to a BA degree in Economics with an International emphasis to be fulfilled by taking 16 hours of language courses. Completion of requirements will lead to a BA degree in Economics with an International Economics option.

1. TOTAL General University and Major Requirements 128
2. TOTAL Lower Division courses 61 or 63
   English Composition E 101-102 or E 111-112 3
   Literature Area I Core 3
   Introduction to Philosophy PY 101 3
   Area I - Third Field 3
   Area I - Any Field 3
   History of Western Civilization HY 102 or
   History of Eastern Civilization HY 105 3
   Prin of Microeconomics EC 205 or EC 205H 3
   Prin of Macroeconomics EC 206 or EC 206H 3
   International Relations PO 231 3
   Mathematics M 105-106 or M 111-204 8-10
   Natural Science (Area III Core) 4
   **Foreign Language through the 202 level 16
   Statistical PR 207 or M 361 3
3. TOTAL Upper Division Courses 42-48
   Intermediate Microeconomics EC 303 3
   Intermediate Macroeconomics EC 305 3
   Upper Division Political Science elective 3
   Upper Division History elective 3
   Economics elective 3
   Elective 3
   **International Economics elective 3
4. TOTAL General University and Major Requirements 128
5. LOWER DIVISION COURSES (Total) 55
   English Composition E 101-102 or E 111-112 6
   Literature (AREA I Core) 3
   History of Western Civilization HY 102 3
   History of Eastern Civilization HY 105 3
   Principles of Economics EC 205-205H 3
   Principles of Macroeconomics EC 206-206H 3
   U.S. History (AREA II CORE) HY 151-152 6
   American National Government PO 101 3
   Mathematics for Business Decisions M 105-106 3
   Natural Science (AREA III Core) 4
   Intro Secondary Teaching: Classroom Observation TE 172 1
   Foundations of Education TE 201 (Sophomore Year) 3
   Educational Psychology TE 225 3
   Intro Financial Accounting AC 205 3
6. UPPER DIVISION COURSES (Total) 46
   Intermediate Microeconomics EC 303 3
   Intermediate Macroeconomics EC 305 3
   Economics Electives 18
   Reading in the Content Subjects TE 407 3
   Educational Technology TE 356 2
   **Electives 3
   Secondary School Methods TE 380 3
   Secondary School Social Studies Methods TE 385 3

ECONOMICS—SOCIAL SCIENCE
SECONDARY EDUCATION EMPHASIS
Bachelor of Arts Degree
The Social Science, Secondary Education Emphasis degree programs are cooperative, interdisciplinary programs involving the Departments of Economics, Political Science, and History. Distinctive features of the Social Science, Secondary Education Emphasis degree programs are: (1) 24 hours of upper division course work in economics of which 9 must be in international-related economics electives; (2) 21 hours of upper division political science and history courses with an international scope (not fewer that 9 in each of these two disciplines); and (3) language competency to be fulfilled by taking 16 hours of language courses. Completion of requirements will lead to an IS degree in Education of Economics with an International Economics emphasis.

1. TOTAL General University and Major Requirements 128
2. TOTAL Lower Division courses 61 or 63
   English Composition E 101-102 or E 111-112 6
   Introduction to Philosophy PY 101 3
   Area I - Third Field 3
   Area I - Any Field 3
   History of Western Civilization HY 102 or
   History of Eastern Civilization HY 105 3
   Principles of Microeconomics EC 205 or EC 205H 3
   Principles of Macroeconomics EC 206 or EC 206H 3
   International Relations PO 231 3
   Mathematics M 105-106 or M 111-204 8-10
   Natural Science (Area III Core) 4
   **Foreign Language through the 202 level 16
   Statistical PR 207 or M 361 3
3. TOTAL Upper Division Courses 42-48
   Intermediate Microeconomics EC 303 3
   Intermediate Macroeconomics EC 305 3
   Upper Division Political Science elective 3
   Upper Division History elective 3
   Economics elective 3
   Elective 3
   **International Economics elective 3
4. TOTAL General University and Major Requirements 128
5. LOWER DIVISION COURSES (Total) 55
   English Composition E 101-102 or E 111-112 6
   Literature (AREA I Core) 3
   History of Western Civilization HY 102 3
   History of Eastern Civilization HY 105 3
   Principles of Economics EC 205-205H 3
   Principles of Macroeconomics EC 206-206H 3
   U.S. History (AREA II CORE) HY 151-152 6
   American National Government PO 101 3
   Mathematics for Business Decisions M 105-106 3
   Natural Science (AREA III Core) 4
   Intro Secondary Teaching: Classroom Observation TE 172 1
   Foundations of Education TE 201 (Sophomore Year) 3
   Educational Psychology TE 225 3
   Intro Financial Accounting AC 205 3
6. UPPER DIVISION COURSES (Total) 46
   Intermediate Microeconomics EC 303 3
   Intermediate Macroeconomics EC 305 3
   Economics Electives 18
   Reading in the Content Subjects TE 407 3
   Educational Technology TE 357 2
   Secondary School Methods TE 380 3
   Secondary School Social Studies Methods TE 385 3
**BUSINESS ECONOMICS MAJOR**

**Bachelor of Business Administration Degree**

| 1. TOTAL General University and Major Requirements | 128 |
| 2. LOWER DIVISION COURSES (Total) | 51 or 52 |
| English Composition E 101-102 or E 111-112 | 6 |
| Other Arts and Humanities (Area I) Core Courses | 12 |
| Principles of Microeconomics EC 205-205H | 3 |
| Principles of Macroeconomics EC 206-206H | 3 |
| Non-Economics Social Science (Area II) Core Courses | 6 |
| Math M 105-106 or M 111-204 | 8 or 9 |
| Natural Science (Area III Core) | 4 |
| Intro Financial Accounting AC 205 | 3 |
| Intro Managerial Accounting AC 206 | 3 |
| Legal Environment of Business GB 202 | 3 |
| Statistical Techniques PR 207-208 | 6 |
| 3. UPPER DIVISION COURSES (Total) | 51 |
| Intermediate Microeconomics EC 303 | 3 |
| Intermediate Macroeconomics EC 303 | 3 |
| History of Economic Thought EC 311 | 3 |
| Econometrics EC 421-422 | 6 |
| Economics Electives | 12 |
| Intro to Mgmt Information Systems IS 310 | 3 |
| Business Communications AS 328 | 3 |
| Principles of Management MG 301 | 3 |
| Principles of Marketing MK 301 | 3 |
| Principles of Finance FI 303 | 3 |
| Principles of Production Management PR 345 | 3 |
| Organizational Behavior MG 301 | 3 |
| Business Policies GB 450 | 3 |
| 4. ELECTIVES Lower or Upper Division (Total) | 5 or 26 |
| *Non-business electives | 16 |
| Free Electives | 9 or 10 |

*Must include courses from at least two of the following: Area I (Arts and Humanities), Area II (Social Sciences), or Area III (Natural Sciences and Mathematics) although the selections need not be made from the list of University core courses.

**RECOMMENDED PROGRAM**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>1st Year</th>
<th>2nd Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEM</td>
<td>SEM</td>
<td></td>
</tr>
<tr>
<td>English Composition E 101-102 or E 111-112</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Math M 105-106 or M 111-204</td>
<td>4.5</td>
<td>4.5</td>
</tr>
<tr>
<td>Area I core</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Area II core (Non-economics)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>*Non-business Electives</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td>16-17</td>
<td>16-17</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

| SEM | SEM | |
| Prin of Microeconomics EC 205-205H | 3 | |
| Prin of Macroeconomics EC 206-206H | 3 | |
| Area III core (Science) | 3 | |
| Intro to Financial Accounting AC 205 | 3 | |
| Intro to Managerial Accounting AC 206 | 3 | |
| Legal Environment of Business GB 202 | 3 | |
| Statistics PR 207-208 | 3 | |
| *Non-business Elective | 3 | 3 |
| TOTAL | 15 | 16 |

**JUNIOR YEAR**

| SEM | SEM | |
| Intermediate Microeconomics EC 303 | 3 | |
| Intermediate Macroeconomics EC 305 | 3 | |

**ECONOMICS MINOR**

Any BSU baccalaureate student may earn a minor in economics by satisfying the requirements listed below in addition to their major requirements.

**REQUIRED COURSES:**

<table>
<thead>
<tr>
<th>Area</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Principles of Microeconomics EC 205</td>
<td>3</td>
</tr>
<tr>
<td>II</td>
<td>Principles of Macroeconomics EC 206</td>
<td>3</td>
</tr>
<tr>
<td>II</td>
<td>Principles of Microeconomics EC 303</td>
<td>3</td>
</tr>
<tr>
<td>II</td>
<td>Principles of Macroeconomics EC 305</td>
<td>3</td>
</tr>
</tbody>
</table>

Any one of the following upper-division economics courses:

- Money & Banking EC 301
- Public Finance EC 310
- History of Economic Thought EC 311
- Comparative Economic Systems EC 315
- International Economics EC 317
- Regional Economics EC 321
- Urban Economics EC 322
- Radical Economics EC 325
- Labor Economics EC 327
- Natural Resource Economics EC 333
- Business Fluctuations & Economic Stabilization EC 405
- U.S. Economic History EC 417
- Econometrics EC 421
- Econometrics EC 422

**Course Offerings**

See page 23 for definition of course numbering system.
government on the functioning of the free enterprise economic system. The theory and rationale of government spending, taxing, and indebtedness will be examined. The effects of government activity on allocation of resources and distribution of income will be considered. Attention will be paid to state and local problems. This course may be taken for either EC or PO credit but not both. PREREQ: EC 205, 206, or PERM/INST.

EC 311 HISTORY OF ECONOMIC THOUGHT (3-0-3)(F). Study of the origin and development of economic theories that have influenced western civilization. Particular attention will be given to the period since 1750. PREREQ: EC 205-206.

EC 315 COMPARATIVE ECONOMIC SYSTEMS (3-0-3)(S). A comparative study of the goals and methods of various economic systems, including competitive market capitalism, centrally planned socialist systems, and worker self-management. Topics include each system's ideological foundations, institutions of property ownership, and economic decision-making mechanisms. The problem of transforming centrally planned socialist economies into market economies will also be studied. PREREQ: EC 206 or PERM/INST.


EC 319 DEVELOPMENT ECONOMICS (3-0-3)(S). This course examines economic development within the context of a global political economy. Alternative development paradigms and resulting policy prescriptions will be studied. The record of successes and failures of developing countries will be evaluated and these countries' common characteristics compared. Specific topics will include: development and income distribution; resource mobilization; agricultural and industrial development; human resource development; the role of international agencies; international trade relations; and foreign aid and investment. PREREQ: EC 205, 206. (Alternate years.)

EC 321 REGIONAL ECONOMICS (3-0-3)(F). Application of economic analysis to regional problems of structure, growth and policy. Location theory, various growth models, and specific techniques such as input-output analysis, base multipliers, and cost-benefit analysis are developed. PREREQ: EC 205-206.

EC 322 URBAN ECONOMICS (3-0-3)(S). Focus on the structure of the urban areas, locational patterns, housing, crime, pollution, poverty, financial and transportation problems. Tools of economic analysis will be used to analyze the problems and existing and proposed policies. PREREQ: EC 205-206 or PERM/INST.

EC 325 RADICAL ECONOMICS (3-0-3)(F). Analysis of radical political-economic thought and its applications to the study of socioeconomic problems. Topics include Marxist socialistic theory; libertarian, anarchist theory, evolutionary economy theory, and other radical models. Issues such as imperialism, economic and social inequality and alienation will be considered. PREREQ: Upper division or PERM/INST.

EC 327 LABOR ECONOMICS (3-0-3)(F). Characteristics and structure of the U.S. labor force are examined and labor markets are analyzed to emphasize the micro- and macroeconomic factors affecting workplace decisions. Development of the U.S. industrial relations system is reviewed along with public policies and these are contrasted with those of other western industrialized societies. PREREQ: EC 205-206.

EC 333 NATURAL RESOURCE ECONOMICS (3-0-3)(F). The theoretical and policy issues associated with the use of natural resources are addressed, including property rights issues which arise when considering collective goods, externalities and common property resources. Tools used in the design and evaluation of resource policy, such as benefit/cost analysis, are covered. PREREQ: EC 205.

EC 405 BUSINESS FLUCTUATIONS AND ECONOMIC STABILIZATION (3-0-3)(S). Application and extension of macroeconomic theory to the study of economic instability. Theories of economic fluctuations and their measurement. Goals, objectives and tools of stabilization policy including techniques of macro-economic forecasting and policy modeling. PREREQ: EC 305.

EC 417 (HY 417) U.S. ECONOMIC HISTORY (3-0-3)(S). Alternate years. Major factors in the economic growth and development of the United States from colonial times to the present. Particular emphasis is given to the interaction of economic factors and other aspects of American society. This course may be taken for either EC or HY credit but not both. PREREQ: EC 205-206 or PERM/INST.

EC 421-422, 421G-422G ECONOMETRICS (3-0-3)(F/S). A two semester sequential course covering applications of mathematics and statistics to the study of economics. Designed to acquaint the student with the quantitative tools used to verify theory and to forecast economic activity. PREREQ: M 106 or equivalent and PR 207. May be taken for either EC 421G-Fall; EC 422G-Spring. (EC 421 is PREREQ for EC 422.)

Department of Management
Business Building, Room 313  Telephone (208) 385-1313
Chairperson and Professor: Nancy K. Napier; Professors: Bigelow, Bixby, Shin, Wines, Witterding; Associate Professors: Glen, Kaupins, Waldorf; Assistant Professors: Frommeller, Furth, Gough, Shim.

Degrees Offered
• BBA, BA, and BS in General Business Management
• BBA, BA, and BS in Management, Entrepreneurial Option
• BBA, BA, and BS in Management, Human Resource Management Option

Department Statement
The goal of the Management Department is to graduate individuals who have acquired competency in management skills and the qualities of an educated person.

The Department of Management offers two majors (General Business Management and Management) and one minor (International Business).

The General Business Management major provides a broad-based curriculum, offering background in a variety of business areas. The major is designed for students who do not wish to specialize in any single area of business.

Emphasis is placed on the development of logical thinking and the use of technical tools directed at recognizing and solving problems which occur in the business community.

A major in General Business Management is appropriate for those who desire to enter management trainee programs offered by business corporations, ranging from the fast food industry to public utilities and financial institutions.

The Management major emphasizes two important management areas.

Entrepreneurial Management option prepares students who wish to start their own business or work in a family-owned business. An entrepreneur organizes and directs a business and assumes risks for the sake of the profits. This option is designed to encourage the motivated self-starter. In a small to medium-sized business, the entrepreneur may assume many job titles and duties to enhance the possibility of a successful business venture.

Human Resource Management option curriculum provides a solid foundation for those interested in the human resource management process of a business and the administration and operation of a company's programs as they apply to employees.

The department also offers a minor in International Business for students who will work in companies doing business overseas, as well as those who may manage a multicultural workforce. The minor blends courses from three disciplines—business, political science and history—to provide a broad perspective for students operating in a global economy. Students may, for example, eventually work in the import-export field or manage overseas subsidiaries of multinational firms.

Recommended Programs

GENERAL BUSINESS MANAGEMENT MAJOR
Bachelor of Business Administration Degree

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Fundamentals of Speech Comm</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>General Psychology</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Economics Elective</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Electives (AIA I)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives (AIA II)</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Non-Business Electives</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>16</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles Microeconomics (AIA II)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Principles Macroeconomics (AII EC II)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Intro Financial &amp; Managerial Accounting</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Statistical Techniques I, II PR 207-208</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Legal Environment &amp; Business Law</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Non-Business Electives</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>Free Electives</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>16</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Marketing</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Management &amp; Organizational Theory</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Commercial Law</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Finance</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Economics Elective</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>32</strong></td>
<td><strong>32</strong></td>
</tr>
<tr>
<td>Year</td>
<td>Course Code</td>
<td>Credits</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Freshman</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition E 101-102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of Speech Comm (AREA II) CM 111</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Psychology (AREA II) P 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Mathematics (AREA III) M 105-106 or M 111-204</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Statistics (AREA I)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Human Resource Management I MG 305</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Government and Business GB 441</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Organizational Behavior MG 401</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management of Technology MG 405</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Employee and Labor Relations MG 340</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intermediate Marketing Management MK 320</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Policies GB 450</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Non-Business Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Free Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Totals</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>Junior</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Principles of Marketing MK 301</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management &amp; Organizational Theory MG 301</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Principles of Finance FI 303</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Economics Elective EC 303,305,312,322, or 327</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Intro Managerial Accounting AC 206</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intro Management AC 205</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intro Mgmt Information Systems IS 310</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Human Resource Management I MG 305</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Principles of Production Management PR 345</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Organizational Behavior MG 401</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Collective Bargaining MG 415</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management of Technology MG 405</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Policies GB 450</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Non-Business Electives</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Free Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Totals</strong></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td>Senior</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>New Venture Creation MG 318</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Working Capital Management I FI 410</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Government and Business GB 441</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intermediate Marketing Management MK 320</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Small Business &amp; Entrepreneurial Mgmt MG 319</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Organizational Behavior MG 401</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management of Technology MG 405</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Policies GB 450</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Non-Business Electives</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Totals</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Course Offerings**

See page 23 for definition of course numbering system

**GB GENERAL BUSINESS**

### Lower Division

**GB 101 INTRODUCTION TO BUSINESS (3-0-3)**

- Designed to acquaint the student with the many phases of business.
- Emphasis will be on the interaction of business with the judicial, legislative, and executive branches of government, and the legal responsibilities of business.
- Not recommended for four year business majors. Juniors and Seniors with declared business majors excluded.

**GB 202 THE LEGAL ENVIRONMENT OF BUSINESS (3-0-3)**

- Emphasis will be on the legal principles relating to commercial transactions. Special emphasis will be placed on the following areas of law: agency, contracts, sales, commercial paper, secured transactions, insurance, and business organizations.
- Non-Business Electives: 4
- **Totals**: 18

### Upper Division

**GB 302 COMMERCIAL LAW (3-0-3)**

- This course provides an indepth study of the legal principles relating to commercial transactions. Special emphasis will be placed on the following areas of law: agency, contracts, sales, commercial paper, secured transactions, insurance, and business organizations.
- Non-Business Electives: 4
- **Totals**: 18

---

**International Business Minor**

The International Business Minor will be offered to Business majors who seek more specialized courses in the international arena. Non-Business students must also complete requirements for a Business minor to obtain the International Business minor.

**Required Courses:**

- International Economics EC 317
- International Finance FI 303
- International Marketing MG 430
- International Relations PO 333
- **Totals**: 18

---

**International Business Management Option**

Bachelor of Business Administration Degree

<table>
<thead>
<tr>
<th>Year</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>English Composition E 101-102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fundamentals of Speech Comm (AREA II) CM 111</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Psychology (AREA II) P 101</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Mathematics (AREA III) M 105-106 or M 111-204</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Statistics (AREA I)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Human Resource Management I MG 305</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Government and Business GB 441</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Organizational Behavior MG 401</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management of Technology MG 405</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Employee and Labor Relations MG 340</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intermediate Marketing Management MK 320</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Policies GB 450</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Non-Business Electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Free Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Totals</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>Junior</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Principles of Marketing MK 301</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management &amp; Organizational Theory MG 301</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Principles of Finance FI 303</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Economics Elective EC 303,305,312,322, or 327</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Intro Managerial Accounting AC 206</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intro Management AC 205</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intro Mgmt Information Systems IS 310</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Human Resource Management I MG 305</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Principles of Production Management PR 345</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Organizational Behavior MG 401</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Collective Bargaining MG 415</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management of Technology MG 405</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Policies GB 450</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Non-Business Electives</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Free Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Totals</strong></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td>Senior</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>New Venture Creation MG 318</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Working Capital Management I FI 410</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Government and Business GB 441</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Intermediate Marketing Management MK 320</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Small Business &amp; Entrepreneurial Mgmt MG 319</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Organizational Behavior MG 401</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management of Technology MG 405</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Business Policies GB 450</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Non-Business Electives</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Free Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Totals</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>
GB 360 BUSINESS ETHICS AND SOCIAL RESPONSIBILITY (3-0-3)(F). An exploration of business conduct and social responsibility in the light of existing ethical, moral, and social values. Designed to enable students to identify and evaluate ethical issues and to examine the role of individuals and organizations in ethical decision making. PREREQ: Upper Division Business standing.

GB 441-441G GOVERNMENT AND BUSINESS (3-0-3)(S). Intensive study of government and business in America and abroad, with the objective of analyzing the contributions and limitations of economic and political systems. PREREQ: Upper Division Business standing and GB 202.


GB 450 BUSINESS POLICIES (3-0-3). To develop analytical, decision making and problem solving skills in situations dealing with complex organizations with the ultimate objective of formulating policies and strategies: both domestic and worldwide. To build upon and integrate the knowledge and methods acquired to examine all functional areas of the organization. PREREQ: Upper Division Business standing, senior standing plus FI 303, IS 310, MG 301, MK 301, PR 345 with grades of "C" or higher.

MG 301 MANAGEMENT AND ORGANIZATIONAL THEORY (3-0-3). Emphasis on conceptual application of management and organizational theory, both domestically and internationally. Topics include organizational environments, decision making, design, technology, leadership, effectiveness, and information and control. PREREQ: Upper Division Business standing.

MG 305 HUMAN RESOURCE MANAGEMENT I (3-0-3)(F/S). The functions of human resource management—selection, planning, procurement, development, utilization, and compensation—with an emphasis on the interrelationships among these functions. Current topics in the law as they affect the personnel functions are considered (e.g., OSHA, Fair Employment Regulations, etc.). PREREQ: Upper Division Business standing and MG 301 or PR/ERM/INST.

MG 318 NEW VENTURE CREATION (3-0-3)(F/S). Topics include the legal, financial, marketing, and managerial issues involved in creating a new enterprise. A major requirement of the course is the completion of a comprehensive business plan describing and analyzing a proposed new venture. PREREQ: Upper Division Business standing and MG 301 or PR/ERM/INST.

MG 319 SMALL BUSINESS AND ENTREPRENEURIAL MANAGEMENT (3-0-3)(F). This course is a continuation of MG 318 New Venture Creation. Study of the unique and distinct problems encountered by small business organizations. Covers the topics of locating, financing, staffing, marketing and regulating the small business. Emphasis is placed on small business management techniques as they apply to service, retail, and production oriented small businesses. PREREQ: Upper Division Business standing and MG 318 or PR/ERM/INST.

MG 330 HUMAN RESOURCE LAW (3-0-3)(F). The general principles of the law and the effective application of these principles. Such issues as organizing campaigns, unfair labor practices, picketing, work stoppages, and the mechanism of conflict resolution are discussed. PREREQ: Upper Division Business standing.

MG 340 EMPLOYEE AND LABOR RELATIONS (3-0-3)(F/S). History, structure, policies, and operations of labor unions, the functioning of industrial relations activities within organizations, and important labor and employment law issues. Contract administration is emphasized with a focus on the day-to-day relationships. International comparisons are made. PREREQ: Upper Division Business standing.

MG 344 INTERNATIONAL TRANSPORTATION (3-0-3)(F/S). An in-depth study of the transportation industry, including the various types of transportation and their importance in the global economy. PREREQ: Upper Division Business standing.

MG 401 ORGANIZATIONAL BEHAVIOR (3-0-3). Emphasis on the role of the manager, including leadership, teamwork, and organizational behavior. PREREQ: Upper Division Business standing and MG 301.

MG 405 MANAGEMENT OF TECHNOLOGY (3-0-3)(F/S). Study of the implications of major technological changes, such as computer integrated manufacturing, office automation, and telecommunications. Develops a framework for examining the strategic, structural, and socio-technical aspects of managing technological change in organizational settings. PREREQ: Upper Division Business standing and MG 301.

MG 406 HUMAN RESOURCE MANAGEMENT II (3-0-3)(F/S). Implementation, administration, maintenance, and control of a comprehensive compensation program. Job analysis, job evaluation, pricing of jobs, supplemental benefits, incentive plans, and performance appraisal. Analysis of specialized topics in human resource management. Analysis of specialized topics that are currently important in the human resource field. PREREQ: Upper Division Business standing and MG 305 or PR/ERM/INST.

MG 415 COLLECTIVE BARGAINING (3-0-3)(S). Materials and resources utilized in preparation for negotiations. Bargaining strategies and tactics are examined. Various methods for conflict resolution are explored, with an emphasis on the mediation and arbitration process. Special attention is devoted to public sector bargaining. PREREQ: Upper Division Business standing and MG 330, 340, or PR/ERM/INST.

Department of Marketing and Finance

Business Building, Room 206 Telephone (208) 385-3356

Chairperson and Professor: Alan Frankle; Professors: Cornwell, Lincoln, McCain; Associate Professors: Barney, Lane, Naumann, Ray; Assistant Professors: Mahler, Schooley, Stephens, White.

Degrees Offered

- BBA, BA, and BS in Finance
- BBA, BA, and BS in Marketing

Department Statement

The Department of Marketing and Finance currently serves the needs of approximately 300 undergraduate marketing majors, and 230 undergraduate finance majors. Its faculty also teach graduate level courses in both disciplines as well as the business communication course required of all undergraduate business majors. Many courses are also offered which are of interest to majors outside the department and College of Business. Such courses cover topics such as personal investing, personal finance, and real estate.

Students taking courses in the department are expected to perform at a level commensurate with nationwide students attending other AACSB accredited business programs. Much of the curriculum is internationally oriented and involves computer applications. Students can expect considerable outside of the classroom work geared toward identifying and solving real world problems. Active research programs undertaken by the faculty also help ensure that students receive up-to-date knowledge in their chosen fields.

The goal of the department is to help prepare graduates that are able to identify opportunities, assess risk relative to returns, and gather the resources necessary to operationalize opportunities. It also aims to prepare these students so that they understand how to effectively participate in the growth, development, and profitability of selected projects or ventures. It is only through this educational approach that tomorrow’s new business leaders will find success in a world characterized as one of constant and rapid change.

Recommended Programs

FINANCE MAJOR

Bachelor of Business Administration Degree

The finance curriculum is designed with major emphasis in three areas of finance: corporate finance, investment and portfolio management, and financial institutions and markets. The student can select a general program or may concentrate course selection around the broad areas of finance. The course offerings are preparation for financial decision making utilizing accounting and market information within a framework of economic theory. A major in the area of finance prepares students to deal with a wide range of financial situations, including those which concern businesses, financial institutions, individuals, and government.

FRESHMAN YEAR

1st SEM 2nd SEM

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>English Composition</em> E 101-102</td>
<td></td>
</tr>
<tr>
<td>Fund of Speech Communication CM 111 (Area II)</td>
<td></td>
</tr>
<tr>
<td>General Psychology P 101 (Area II)</td>
<td></td>
</tr>
<tr>
<td>Mathematics M 105-106 or M 111-204 (Area IV)</td>
<td></td>
</tr>
<tr>
<td>Core Electives (Area I)</td>
<td>4</td>
</tr>
<tr>
<td><strong>Electives</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

*Principles of Microeconomics* EC 205         | 3       |
*Principles of Macroeconomics* EC 206      | 3       |
*Intro to Financial Accounting* AC 205     | 3       |
*Intro to Managerial Accounting* AC 206    | 3       |
*Statistical Techniques I* PR 207          | 3       |
*Legal Environment of Business* GB 202     | 3       |
**Electives: At least 6 credit hours of electives must be from outside the College of Business.**

**Major Elective chosen from upper division finance, accounting or economics.**

**Electives chosen from upper division accounting or economics, advisor approval is required and written verification of such approval must be sent to the Graduation Evaluators in the Registrar’s Office.**

To graduate, students must have a minimum of 40 upper division (300/400 level) credit hours and 128 total credit hours.

### Course Offerings

See page 23 for definition of course numbering system

#### AS ADMINISTRATIVE SERVICES

**Upper Division**

**AS 309 RECORDS MANAGEMENT (3-0-3)(F).** Creation, processing, maintenance, protection and destruction of business records. These topics will be covered from the theoretical point of view and by the use of practical application. The ability to analyze a problem and make a decision will be stressed. PREREQ: Upper Division Business standing.

**AS 328 BUSINESS COMMUNICATION (3-0-3)(FS).** The effectiveness and correctness of writing and the psychology of letter writing will be stressed through the preparation of a variety of business messages. Specific memorandum and letter problems will be used in conjunction with various cases to provide students with realistic opportunities to develop writing skills necessary for entry-level performance. PREREQ: E 102 and Upper Division Business standing.

**AS 338 TECHNICAL WRITING FOR BUSINESS (3-0-3)(S).** A study and application of the principles and logic of effective writing in the preparation of business reports and technical papers. Specific as well as general instruction in the gathering and interpreting of data, organizing of information, and writing of the final report. The case-study approach will be used. PREREQ: AS 328 and Upper Division Business standing.

**Fl FINANCE**

**Fl 201 FUNDAMENTALS OF REAL ESTATE (3-0-3)(FS).** Essentials of real estate practice, listings, sales, financing, land descriptions, investments, brokerage, advertising, market analysis and fundamentals arising from real estate transactions.

**Fl 208 PERSONAL FINANCE (3-0-3)(FS).** This course addresses the growing complexity of financial decision making faced by the individual: how to avoid financial entanglements; installment buying; borrowing money; owning or renting a home; budgeting and money management; savings and investment alternatives; health, accident and auto insurance; personal income taxes and estate planning.

**Fl 220 LAW OF REAL ESTATE (3-0-3)(FS).** Designed to review the laws establishing and governing basic rights of ownership and use of real estate. The concepts of the modern real estate transaction, the real estate brokerage business, and the various legal relationships involved are discussed. PREREQ: GB 202 and Fl 201.

**Fl 231 PRINCIPLES OF INSURANCE (3-0-3)(FS).** Fundamental legal principles involved in insurance contracts. Company practices in relation to insurance management are stressed as is the field of regulation on both the theoretical and practical applications. All areas of insurance are covered including life, casualty, liability, and medical.

**Fl 250 PERSONAL INVESTING (3-0-3)(FS).** The basic mechanics and principles of investing are introduced to acquaint students with investment vehicles, markets, and processes. Other topics will include speculation, options, and commodities.

**Upper Division**

**Fl 383 PRINCIPLES OF FINANCE (3-0-3)(FS).** An introductory course focusing on financial management for business concerns. Topics include: allocation of resources for investment in short- and long-term assets, decisions with respect to debt and
equity financing, and dividend policy. Lectures and reading are blended with problems and cases for class discussion. PREREQ: Upper Division Business standing or PER31011.

FI 371 APPRAISAL OF REAL ESTATE (3-0-3) (F/S). Modern real estate appraisal concepts and skills and technical skills employed in their application to residential property. PREREQ: Upper Division Business standing and FI 201.

FI 372 REAL ESTATE INVESTMENT AND TAXATION (3-0-3) (F/S). Real Estate from the investor's (owner's) point of view with special attention to the tax aspects including risk and return analysis, property leverage, discounted cash flow, tax consequences of sales, exchanging, multiple exchanges, and computerized investment analysis. PREREQ: Upper Division Business standing, FI 201, 220 and FI 303.

FI 373 REAL ESTATE FINANCE (3-0-3) (F/S). Financial analysis and examination of the intricacies of the real estate mortgage markets, source of mortgage funds, federal government and mortgage markets, lending decisions, management of loan portfolios, leasing, construction financing, creative financing, and financing of specific types of real property. PREREQ: Upper Division Business standing and FI 303.

FI 410-410G WORKING CAPITAL MANAGEMENT (3-0-3) (S). This course considers the short-term financial management of a firm. Financial analysis of past, present, and future operations is emphasized. Cash flow analysis, management of current accounts and cost benefit analysis are stressed. Case discussions provide a merging of theoretical concepts and practical application. PREREQ: Upper Division Business standing and FI 303.

FI 411-411G CAPITAL BUDGETING AND PLANNING (3-0-3) (F). Acquisition and allocation of long-term sources of funds are the subject of this course. Emphasis is placed on fund raising and the problems associated with measurement and structural influences on the firm's cost of capital. Cash flow analysis and alternative investment decision rules are examined. Cases are used for classroom discussion as a link between theory and practice. PREREQ: Upper Division Business standing, FI 303, and PR 208.

FI 420-420G MANAGEMENT OF FINANCIAL INSTITUTIONS (3-0-3) (F). The interaction between financial institutions and financial markets are examined and their roles in the economy are discussed. Emphasis is placed on the changes taking place within the financial community and the effects on financial institutions in general and commercial banking in particular. PREREQ: Upper Division Business standing, FI 303, and EC 301.

FI 421-421G DECISION PROCESSES IN BANKING (3-0-3) (S). The topics included in this course are those which involve the specific decision-making areas faced by participants in the banking industry. These decision areas include the management of liquidity reserves and securities portfolios; consumer, business, and real estate loans; liability control; asset-liability management; trust banking; and international banking. PREREQ: Upper Division Business standing and FI 420.

FI 430 INTERNATIONAL FINANCE (3-0-3) (F). This course builds a strong foundation on the relationship among international financial markets. Included is exchange rate determination and parity conditions across countries. Once the foundation is built, the multinational firm is examined in this framework. Included is working capital management, capital budgeting, and cost of capital for the multinational firm. PREREQ: Upper Division Business standing and FI 303.

FI 450-450G INVESTMENT MANAGEMENT (3-0-3) (F). This course examines the U.S. Securities markets from both a theoretical and a practical viewpoint. Topics include: mechanics of direct investment, measurement and management of risk and return, the Efficient Market Hypothesis, Modern Portfolio Theory, the Capital Asset Pricing Model, and the analysis of investment performance. Class format incorporates lecture, readings, and guest lecturers. PREREQ: Upper Division Business standing, FI 303, and PR 208.

FI 451-451G FRONTIERS IN FINANCIAL MARKETS (3-0-3) (S). This course focuses on both recent and past innovations in the securities markets. Futures contracts and options and the theory of hedging using both agricultural and financial futures contracts options writing, and index options are stressed. A combination of theory and practice will be sought relying on lecture, text material, journal and trade articles, and guest speakers. PREREQ: Upper Division Business standing and FI 450.

FI 471 APPRAISAL OF INCOME PROPERTIES (3-0-3) (F/S). Following a review of the steps leading to the estimation of net income, all prevalent methods and techniques of converting net income into an indication of value are covered: Direct capitalization, the residual techniques, and capitalization roles are analyzed. PREREQ: Upper Division Business standing, FI 201 and FI 371.

FI 498-499 SENIOR SEMINAR IN FINANCE (3-0-3) (F/S). Designed to provide an opportunity for study of a particular area of finance at an advanced level. Builds background developed in the regularly scheduled finance courses. The topics offered will be selected on the basis of their timely interest to finance students and a particular expertise of the instructor. PREREQ: Upper Division Business standing.

MK MARKETING

MK 301 PRINCIPLES OF MARKETING (3-0-3) (F/S). Describes the methods of identifying and interpreting wants and needs of people; selecting the particular wants and needs the organization will satisfy; determining the product, price, promotion, and place in a proper mix. PREREQ: Upper Division Business standing.

MK 306 PROMOTION MANAGEMENT (3-0-3) (F/S). A comprehensive approach to creating and implementing advertising and promotional activities. New issues of consumer research are emphasized and integrated with the promotional mix. The economic and social criticisms of advertising are stressed to insure that managers are aware of the ethical responsibilities inherent in the job. PREREQ: Upper Division Business standing and MK 301.

MK 307 CONSUMER BEHAVIOR (3-0-3) (F/S). Theories of behavior related to purchase and consumption of goods or services. Individual as well as group reaction in social science research is evaluated. PREREQ: Upper Division Business standing and MK 301.

MK 320 INTERMEDIATE MARKETING MANAGEMENT (3-0-3) (F/S). Marketing principles and theories integrated with analytical and behavioral decision processes. Emphasis on problem and opportunity recognition, marketing strategies, planning and administering marketing programs. Consumer, industrial, institutional, and international markets considered. PREREQ: Upper Division Business standing and MK 301.

MK 415-415G MARKETING RESEARCH (3-0-3) (F/S). Theory and use of research for marketing decisions. Provides experience in planning, designing and implementing research activities. PREREQ: Upper Division Business standing, PR 208, and MK 301.

MK 416 APPLIED MARKETING RESEARCH (3-0-3) (F/S). An application of research concepts through the design, implementation, and completion of an actual research project. Advanced discussion of research design and statistical analysis will be conducted. PREREQ: Upper Division Business standing and MK 415.

MK 421 SALES ADMINISTRATION (3-0-3) (F/S). Management and integration of sales organizations emphasizing recruiting, selection, training, supervision, and compensation of salesmen. Stress also placed on coordination with other functional managers, and ethics and social responsibilities of the sales manager. PREREQ: Upper Division Business standing and MK 301.


MK 430 INTERNATIONAL MARKETING (3-0-3) (F). An analysis of the creation, planning, and implementation of marketing strategies that cross national and cultural borders. PREREQ: Upper Division Business standing and MK 301.

MK 440 INDUSTRIAL MARKETING (3-0-3) (F). An analysis of activities related to the marketing of products and services to organizations including government agencies, profit and non-profit institutions, and commercial enterprises. PREREQ: Upper Division Business standing and MK 301.

MK 498 SEMINAR IN CONTEMPORARY TOPICS IN MARKETING. Provides an opportunity for the study of topics of current interest in marketing. Topics will be selected based upon the interests of students and expertise of faculty. PREREQ: Upper Division Business standing.