Philosophy
The faculty of the College of Education represents diverse and dynamic backgrounds and serves students from an extended community reaching far beyond the boundaries of Idaho. The faculty addresses this extended community in varied functions both on and off campus. The work of the faculty reflects an active appreciation for development of the whole person and includes attention to the intellectual, physical, social and emotional needs of students. A key precept underlying all activities is the promotion of learning and fitness as lifelong activities.
Course work is offered in both professional and academic areas. The academic course work is designed to acquaint students with historical, philosophical, and theoretical aspects of Education, Physical Education and Psychology and to help them appreciate and use scientific thinking as a tool for viewing human behavior in a more sophisticated and effective manner. Professional course work and experiences are directed primarily toward the mastery of skills needed by teachers.

Teacher Certification
The College of Education is the unit responsible for the preparation of students seeking state certification as teachers. The Dean of the College is the official BSU representative responsible for recommending teacher certification for those students who successfully complete teacher education programs.

Counseling and Testing Services
The Counseling and Testing Center offers a wide range of services directed toward students, faculty, and staff at no charge, although students must be currently enrolled for a minimum of six credit hours.
Since the pursuit of personal or educational goals always involves changes and personal adjustments, the Center has developed a wide variety of strategies to help with these normal developmental concerns and to prevent potentially traumatic problems. These approaches are geared toward making successful development even better as existing strengths of the campus and students are supported. Consequently the staff is involved in offering workshops and discussion groups designed to promote skill development and enhance the quality of student life.
The staff is available for consultation with individual students, clubs, classes, and organizations interested in student well-being. The staff is also available to serve a similar role for faculty, administrators, staff, and committees interested in professional consultation. Each of the staff also teaches in the Psychology Department and offers courses on such subjects as peer counseling, stress management and the transition needs of non-traditional students plus workshops on test anxiety.
There are a variety of standardized tests available to complement the counseling process. The Center is also responsible for the administration of such nationwide testing programs as the CLEP, NTE, GRE, GMAT and MAT.
Appointments can be made by calling 385-1601 between 8 a.m. and 4:30 p.m. Monday through Friday or by coming to the Center on the sixth floor of the Education Building. Interviews are generally from 30 to 60 minutes.
Accreditation
All teacher preparation programs, both graduate and undergraduate, at Boise State University are fully accredited by the National Council for Accreditation of Teacher Education (NCATE), and all are approved by the Professional Standards Commission of the State Board of Education. In addition, the program for the preparation of athletic trainers is fully accredited by the National Athletic Trainers Association (NATA).

Teacher Education Advisory Council
The Teacher Education Advisory Council serves as an all-university co-coordinating body for programs for the preparation of teachers. Membership is composed of department chairs of each department offering a major which leads to certification as a teacher and the deans of the colleges/schools in which those departments are housed. It is chaired by the Associate Dean of the College of Education.

Department of Health, Physical Education and Recreation
Gymnasium, Room 209 Telephone (208) 385-1570
Chairperson and Professor: Glenn Potter; Professors: Button, Hoeger, Vaughn; Associate Professors: Fahleson, Koizar, Lewis, Pfeiffer; Assistant Professors: Miller, Petlichkoff, Spitzer, Thorngren, Wallace; Special Lecturers: Craner, Koto, Moore, Sandmire, Sawyer, Van Wassenhove; Educational Consultants: Priest, Wade, Weiss.

Degrees Offered
- BS in Athletic Training
- BS in Physical Education, Secondary Education
- BS in Physical Education, Non-Teaching Option
- MS in Exercise and Sport Studies

Department Statement
The Department of Health, Physical Education and Recreation has as its major focus the comprehension, development, and promotion of a healthy lifestyle. The aim, through teaching, research and service activities, is to improve and enrich the quality of life by helping people value and achieve self-fulfillment and wellness. Learning motor skills, adhering to accepted personal health practices, engaging in meaningful leisure and vigorous fitness activities, and appreciating the beauty of skillful movement of one's physical and biological environment are among the vehicles employed to accomplish this end.

Students completing a course of study within the Department shall have developed and demonstrated skills in critical thinking, communication and total fitness. Development of the competencies and resources necessary to be models of the profession will occur through an in-depth series of activity, theory and practicum experiences. The process will enable graduates to interact effectively with people in espousing the philosophy of a healthy and skillful lifestyle in various settings.

To accomplish this challenge, the Department has developed three undergraduate options with different areas of specialty.

1. Teaching Option: For students seeking to certify as teachers at the K-8, 6-12 or K-12 grade levels.
   a. Teaching P.E.: For students seeking to certify as physical education instructors at the K-8, 6-12 or K-12 levels.
   b. Coaching: College of Education majors who want special preparation for public school coaching should also pursue this alternative.
   c. Athletic Training: For those who desire to prepare for the National Athletic Trainers Association Certification Examination and qualify as an Athletic Trainer/Teacher in a school setting.
   d. Health: For students requesting a minor in health education.
2. Non-Teaching, Physical Education: For students preparing for physical education related careers which do not require teacher certification.

   a. Exercise Science: Majors desiring a strong biological sciences and exercise physiology background as preparation for graduate school.
   b. Biomechanics: For those seeking additional understanding of the mechanical bases of human movement for coaching, research or preparation for graduate school.
   c. Health Promotion: This program is designed to prepare students for a career as a fitness consultant in the private sector and to successfully pass the American College of Sports Medicine Health/Fitness Instructor Certification Examination.
3. Athletic Training: For students preparing for the National Athletic Trainers Association (NATA) Certification Exam and qualification as an Athletic Trainer in a college, professional sport or sports medicine clinic. Also, many pre-physical therapy students pursue this option as an undergraduate degree.

Department Admission Requirements
Admission to Upper Division Standing: Admission policies provide students an opportunity to be evaluated prior to enrollment in upper division Physical Education classes. Applications must be submitted NO LATER THAN September 15 or February 15 depending when the applicants' total credit hours, including current course load, exceed 57. Forms can be picked up from academic advisors and should be returned to G-209 along with a current transcript by the stated deadline.

Application Criteria
1. The student's total credit hours, including current course load, must exceed 57 credit hours.
2. The student must achieve a grade of "C" or better for each of the following lower division courses (program specific requirements are noted):
   a. Exercise Science: Majors desiring a strong biological sciences and exercise physiology background as preparation for graduate school.
   b. Biomechanics: For those seeking additional understanding of the mechanical bases of human movement for coaching, research or preparation for graduate school.
   c. Health Promotion: This program is designed to prepare students for a career as a fitness consultant in the private sector and to successfully pass the American College of Sports Medicine Health/Fitness Instructor Certification Examination.
3. The student's cumulative GPA will determine acceptance to upper division standing according to:
   a. 2.50 or above = acceptance
   b. below 2.50 = denial
   Student not qualifying for admittance to upper division standing can reapply once their GPA is raised to at least a 2.50 and they have a "C" or better grade for each of the courses listed in item #2 above.
4. Each faculty member will be given an opportunity to submit in writing to the Chair recommendations as well as reservations regarding each student's:
   a. involvement in professional activities (e.g., PE Major's Club, departmental projects, etc.)
   b. skill level in both academic and physical skills.
   c. commitment to becoming a model physical educator.
   The Chair will be obligated to discuss the issue(s) with the student as s/he is admitted or denied admission to upper division standing.
5. Those enrolling in upper division Physical Education courses without upper division standing will be administratively withdrawn.
6. Once admitted to upper division standing, students must maintain a cumulative 2.5 GPA before being permitted to enroll for student teaching, a PE 493 internship and/or graduate.

Degree Requirements

PHYSICAL EDUCATION, SECONDARY EDUCATION

PHYSICAL EDUCATION, NON-TEACHING OPTION

Bachelor of Science Degree

GENERAL UNIVERSITY REQUIREMENTS

English Composition E 101, 102 ....................................................... 6
Area I Core ...................................................................................... 12
Area II Core .................................................................................... 12
Area III Core .................................................................................. 12
Area II-III Electives ........................................................................ 9
TOTAL ............................................................................................... 51

PHYSICAL EDUCATION CORE REQUIREMENTS

(Required of all Teaching and Non-Teaching Graduates)

Health Education PE 100 .................................................................... 3
Foundations of Physical Education PE 101 ............................................ 3
Rhythmic Skills PE 113 ......................................................................... 1
Fitness Foundations PE 114 ................................................................. 1
Tumbling Skills PE 115 ......................................................................... 1
Sports Skills PE 117 .............................................................................. 1
Applied Anatomy PE 230 .................................................................... 3
Human Growth & Motor Learning PE 306 .............................................. 3
Evaluation in Physical Education PE 309 .............................................. 3
Exercise Physiology PE 310 ................................................................. 3
Kinesiology PE 311 .............................................................................. 3
Adapted Physical Education PE 451 ..................................................... 3
TOTAL ............................................................................................... 28-35

In addition, students must demonstrate:
1. Computer literacy by completing PE 284, a comparable computer class or by passing a proficiency exam offered by the department.
2. Competency in Advanced First Aid and CPR. This can be met by completing PE 122 or through the American Red Cross.
3. Competency in swimming. Testing will take place in PE 114 Fitness Foundations. If students fail to pass the test they will be required to take a Fitness Activity swimming class.

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.

Recommended Program

PHYSICAL EDUCATION, SECONDARY EDUCATION

FRESHMAN YEAR

English Composition E 101, 102 ....................................................... 6
General Psychology P 101 (Area II Core) .............................................. 3
Human Anatomy and Physiology Z 111, 112 (Area III Core) ............. 8
Health Education PE 100 ..................................................................... 3
Foundations of Physical Education PE 101 ............................................ 3
Rhythmic Skills PE 113 ......................................................................... 1
Fitness Foundations PE 114 ................................................................. 1
Tumbling Skills PE 115 ......................................................................... 1
Sports Skills PE 117 .............................................................................. 1
Advanced First Aid & CPR PE 122 or equiv ......................................... 3
Area I Core ...................................................................................... 33

NOTE: Recommended that the student take Psychology, Sociology and/or Philosophy elective.

SOPHOMORE YEAR

Applied Anatomy PE 230 .................................................................... 3
Microcomputers in Physical Education PE 284 or equiv ....................... 3
Area II Core, Any Field ..................................................................... 3
Calculus & Anal Geometry M 204, 206 (Area III Core) ....................... 13
Mechanics, Waves and Heat PH 271, 212 (Area III Core) ................. 5
Intermediate Applied Programming M/PH 225 ................................. 2
Area I Core, Second & Third Fields ................................................... 6
Area II Core, Sociology Elective ........................................................ 3

TOTAL ............................................................................................... 38

JUNIOR YEAR

Human Growth & Motor Learning PE 306 .............................................. 3
Evaluation in Physical Education PE 309 .............................................. 3
Exercise Physiology PE 310 ................................................................. 3
Kinesiology PE 311 .............................................................................. 3
Conditioning Procedures PE 313 ......................................................... 2
Area I Core, Any Field ..................................................................... 3
Intro to Mechanics EN 205 ................................................................. 3
Dynamics of Rigid Bodies EN 206 ....................................................... 2
*Electives ......................................................................................... 9

TOTAL ............................................................................................... 31

SENIOR YEAR

Adapted Physical Education PE 451 ..................................................... 3
Psycho/Social Aspects of Activity PE 401 .............................................. 3
Internship PE 493 .............................................................................. 6
*Electives ......................................................................................... 16

NOTE: RECOMMENDED ELECTIVES: *24-31 credits chosen from: PE 212, 236; EN 221, 233, 301, 306; PH 207, 307, 341; P 305.

PHYSICAL EDUCATION, NON-TEACHING OPTION

BIOMECHANICS EMPHASIS

FRESHMAN YEAR

English Composition E 101, 102 ....................................................... 6
General Psychology P 101 (Area II Core) .............................................. 3
Fund of Speech Comm CM 111 (Area II Core) .................................... 3
Concepts of Human Anatomy & Physiology Z 107 ............................ 4
Health Education PE 100 ..................................................................... 3
Foundations of Physical Education PE 101 ............................................ 3
Rhythmic Skills PE 113 ......................................................................... 1
Fitness Foundations PE 114 ................................................................. 1
Tumbling Skills PE 115 ......................................................................... 1
Sports Skills PE 117 .............................................................................. 1
Advanced First Aid & CPR PE 122 or equiv ......................................... 3
Area I Core—Philosophy Elective ........................................................ 3
Digital Computer Programming CS 124/EN 104 ................................. 2

TOTAL ............................................................................................... 34

SOPHOMORE YEAR

Applied Anatomy PE 230 .................................................................... 3
Microcomputers in Physical Education PE 284 or equiv ....................... 3
Area II Core, Any Field ..................................................................... 3
Calculus & Anal Geometry M 204, 206 (Area III Core) ....................... 13
Mechanics, Waves and Heat PH 271, 212 (Area III Core) ................. 5
Intermediate Applied Programming M/PH 225 ................................. 2
Area I Core, Second & Third Fields ................................................... 6
Area II Core, Sociology Elective ........................................................ 3

TOTAL ............................................................................................... 38

JUNIOR YEAR

Human Growth & Motor Learning PE 306 .............................................. 3
Evaluation in Physical Education PE 309 .............................................. 3
Exercise Physiology PE 310 ................................................................. 3
Kinesiology PE 311 .............................................................................. 3
Conditioning Procedures PE 313 ......................................................... 2
Area I Core, Any Field ..................................................................... 3
Intro to Mechanics EN 205 ................................................................. 3
Dynamics of Rigid Bodies EN 206 ....................................................... 2
*Electives ......................................................................................... 9

TOTAL ............................................................................................... 31

SENIOR YEAR

Adapted Physical Education PE 451 ..................................................... 3
Psycho/Social Aspects of Activity PE 401 .............................................. 3
Internship PE 493 .............................................................................. 6
*Electives ......................................................................................... 16

NOTE: RECOMMENDED ELECTIVES: *24-31 credits chosen from: PE 212, 236; EN 221, 233, 301, 306; PH 207, 307, 341; P 305.
## College of Education

### PHYSICAL EDUCATION, NON-TEACHING OPTION

#### EXERCISE SCIENCE EMPHASIS

#### FRESHMAN YEAR

- English Composition E 101, 102 .............................................. 6
- General Psychology P 101 (Area II Core) ................................. 3
- Human Anatomy and Physiology Z 111, 112 (Area III Core) ....... 8
- Health Education PE 100 ......................................................... 3
- Foundations of Physical Education PE 101 ................................. 3
- Rhythmic Skills PE 113 ............................................................ 3
- Fitness Foundations PE 114 ....................................................... 1
- Tumbling Skills PE 115 ............................................................. 1
- Sports Skills PE 117 ............................................................... 1
- Advanced First Aid & CPR PE 122 or equiv ............................... 3
- Area I Core, Philosophy Elective ............................................. 3

#### SOPHOMORE YEAR

- Applied Anatomy PE 230 .......................................................... 3
- Microcomputers in Physical Education PE 284 or equiv ............... 3
- Internship PE 293 ................................................................. 3
- Area II Core, Any Field ......................................................... 3
- Fund of Speech Comm CM 111 (Area II Core) ........................... 3
- Found of Physical Science PS 100 (Area III Core) .................... 4
- Area I Core, Second Field ..................................................... 3
- Area II Core, Sociology Elective ............................................. 3
- College Chemistry C 131-134 (Area III Core) ......................... 9

#### JUNIOR YEAR

- Human Growth & Motor Learning PE 306 ................................ 3
- Evaluation in Physical Education PE 309 ................................ 3
- Exercise Physiology PE 310 ..................................................... 3
- Kinesiology PE 311 ............................................................... 3
- Conditioning Procedures PE 313 ............................................ 2
- Electives – Fitness Activities ................................................. 2
- Nutrition H 207 ................................................................. 3
- Drugs: Use & Abuse H 109 .................................................... 3
- Area I Core, Any Field ......................................................... 3
- Mgmt & Organ Theory MG 301 ................................................. 3
- Prin of Marketing MK 301 ...................................................... 3

#### SENIOR YEAR

- Psycho/Social Aspects of Activity PE 401 ................................. 3
- Adapted Physical Education PE 451 ......................................... 3
- Health Programs: Methods & Adm PE 415 ................................. 3
- Health Promotion PE 417 ...................................................... 3
- Internship PE 493 ................................................................. 1 + 3
- Area II Core ................................................................. 3
- Organizational Behavior MG 401 ........................................... 3
- Electives ....................................................................... 6

#### PHYSICAL EDUCATION, NON-TEACHING OPTION

#### HEALTH PROMOTION EMPHASIS

#### FRESHMAN YEAR

- English Composition E 101, 102 .............................................. 6
- General Psychology P 101 (Area II Core) ................................. 3
- Human Anatomy and Physiology Z 111, 112 (Area III Core) ....... 8
- Health Education PE 100 ......................................................... 3
- Foundations of Physical Education PE 101 ................................. 3
- Fitness Foundations PE 114 ....................................................... 1
- Area I Core, Any Field ......................................................... 3
- Area II Core, Second Field .................................................. 3
- Area II Core, Sociology Elective ............................................. 3
- College Chemistry C 107-110 (Area III Core) ......................... 9

#### SOPHOMORE YEAR

- Applied Anatomy PE 230 .......................................................... 3
- Microcomputers in Physical Education PE 284 ......................... 3
- Internship PE 293 ................................................................. 3
- Nutrition H 207 ................................................................. 3
- Fund of Speech Comm CM 111 (Area II Core) ........................... 3
- Found of Physical Science PS 100 (Area III Core) .................... 4
- Area I Core, Second Field .................................................. 3
- Area II Core, Sociology Elective ............................................. 3
- College Chemistry C 131-134 (Area III Core) ......................... 9

#### JUNIOR YEAR

- Area I Core Elective .......................................................... 3
- Area II Core ................................................................. 3
- Human Growth & Motor Learning PE 306 ................................ 3
- Evaluation in Physical Education PE 309 ................................ 3
- Exercise Physiology PE 310 ..................................................... 3
- Training Room Modalities PE 120 ........................................... 3
- Adolescent Psychology P 212 ................................................ 3
- Area I Core Elective .......................................................... 3
- Area II Core Elective .......................................................... 3
- Conditioning Procedures PE 313 ............................................ 2
- Advanced Athletic Training PE 402 ....................................... 3

#### SENIOR YEAR

- Kinesiology PE 311 ............................................................... 3
- Psycho/Social Aspects of Activity PE 401 ................................. 3
- Theory & Appr Therapeutic Exercise PE 406 ......................... 3
- Injury Evaluation PE 422 ....................................................... 2
- Health Programs: Methods & Adm PE 415 ................................. 3
- Health Promotion PE 417 ...................................................... 2
- Adapted Physical Education PE 451 ......................................... 3
- Electives ....................................................................... 7

*NOTE: RECOMMENDED ELECTIVES: *14-21 credits* chosen from: B 205, 300; C 107-110; CM 221, 251, 476; FI 303; H 410, 414, 480, 497; MG 305, 340, 406; MK 306; P 251, 297, 305, 311, 212, 313, 435; PE 236, 405, 457; SO 325; FA 167.

### ATHLETIC TRAINING MAJOR

#### BACHELOR OF SCIENCE DEGREE

- Fund of Physical Science PS 100 (Area III Core) .................... 4
- Essentials of Chemistry C 107-110 (Area III Core) ................ 9

#### FRESHMAN YEAR

- General Psychology P 101 (Area II Core) ................................. 3
- Human Anatomy and Physiology Z 111, 112 (Area III Core) ....... 8
- Foundations of Physical Education PE 101 ................................. 3
- Fund of Speech Comm CM 111 (Area II Core) ........................... 3
- Found of Physical Science PS 100 (Area III Core) .................... 4
- Area I Core, Second Field .................................................. 3
- Area II Core, Sociology Elective ............................................. 3
- College Chemistry C 131-134 (Area III Core) ......................... 9

#### SOPHOMORE YEAR

- Applied Anatomy PE 230 .......................................................... 3
- Microcomputers in Physical Education PE 284 ......................... 3
- Internship PE 293 ................................................................. 3
- Nutrition H 207 ................................................................. 3
- Fund of Speech Comm CM 111 (Area II Core) ........................... 3
- Found of Physical Science PS 100 (Area III Core) .................... 4
- Area I Core, Second Field .................................................. 3
- Area II Core, Sociology Elective ............................................. 3
- College Chemistry C 131-134 (Area III Core) ......................... 9
## Physical Education Minor Teaching Certification Endorsements

### HEALTH EDUCATION FOR NON-PHYSICAL EDUCATION MAJORS

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Education PE 100</td>
<td>3</td>
</tr>
<tr>
<td>Fitness Foundations PE 114</td>
<td>1</td>
</tr>
<tr>
<td>Advanced First Aid PE 122</td>
<td>3</td>
</tr>
<tr>
<td>First Aid Instr Trng Course PE 123</td>
<td>1</td>
</tr>
<tr>
<td>Health Prog: Meth &amp; Adm PE 415</td>
<td>3</td>
</tr>
<tr>
<td>Anatomy and Physiology Z 107</td>
<td>4</td>
</tr>
<tr>
<td>Nutrition H 207</td>
<td>3</td>
</tr>
<tr>
<td><strong>ELECTIVES: Select two (6)</strong></td>
<td></td>
</tr>
<tr>
<td>Drugs, Use and Abuse H 109</td>
<td>3</td>
</tr>
<tr>
<td>Human Sexuality P 261</td>
<td>3</td>
</tr>
<tr>
<td>Consumer Health PE 405</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

### HEALTH EDUCATION MINOR FOR PHYSICAL EDUCATION MAJORS

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Aid Instr Trng Course PE 123</td>
<td>1</td>
</tr>
<tr>
<td>Health Prog: Meth &amp; Adm PE 415</td>
<td>3</td>
</tr>
<tr>
<td>Nutrition H 207</td>
<td>3</td>
</tr>
<tr>
<td><strong>ELECTIVES: Select two (6)</strong></td>
<td></td>
</tr>
<tr>
<td>Drugs, Use and Abuse H 109</td>
<td>3</td>
</tr>
<tr>
<td>Human Sexuality P 261</td>
<td>3</td>
</tr>
<tr>
<td>Consumer Health PE 405</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>13</strong></td>
</tr>
</tbody>
</table>

### ATHLETIC TRAINING MINOR FOR PHYSICAL EDUCATION MAJORS

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essen of Chemistry &amp; Labs C 107-110</td>
<td>9</td>
</tr>
<tr>
<td>Medical Terminology H 101</td>
<td>3</td>
</tr>
<tr>
<td>Nutrition H 207</td>
<td>3</td>
</tr>
<tr>
<td>Training Room Procedures PE 120</td>
<td>1</td>
</tr>
<tr>
<td>Intro Athletic Injuries PE 236</td>
<td>3</td>
</tr>
<tr>
<td>Internship — Athl Trng PE 293</td>
<td>3</td>
</tr>
<tr>
<td>Conditioning Procedures PE 313</td>
<td>2</td>
</tr>
<tr>
<td>Psych/Soc Aspects of Activity PE 401</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Athletic Training PE 402</td>
<td>3</td>
</tr>
<tr>
<td>Training Room Modalities PE 403</td>
<td>2</td>
</tr>
<tr>
<td>Injury Evaluation PE 422</td>
<td>2</td>
</tr>
<tr>
<td>Theory &amp; App of Therapeutic Exercise PE 406</td>
<td>3</td>
</tr>
<tr>
<td>Internship — Athl Trng PE 493</td>
<td>3</td>
</tr>
<tr>
<td>Fitness Testing PE 404</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>43</strong></td>
</tr>
</tbody>
</table>

### COACHING ENDORSEMENT

The Coaching Endorsement consists of two parts. Those desiring to coach at the elementary school level or as a volunteer in youth sport organizations should complete Part 1 which leads to American Coaching Effectiveness Program (ACEP) Level I certification. Completion of both Parts I and II is recommended for those desiring to coach sports at the interscholastic level.

#### Part I — Volunteer Coaches

Introduction to Coaching PE 107 .......................... 2
Complete one of the following:
- First Aid-CPR PE 122 .................................... 1
  - Advanced First Aid CPR PE 122 .......................... 3
- Intro Athletic Injuries PE 236 .......................... 3
  - American Red Cross Certification in First Aid-CPR .... 0

Coaching Methods Course selected from:
- Coaching Baseball PE 250 .................................. 2
- Coaching Wrestling PE 260 .................................. 2
- Internship in Coaching Youth Sports .................. 1
  or equivalent experience .............................. 0

#### Part II — Interscholastic Coaches

Complete Part I ............................................. 4-8
- Anatomy & Physiology Z 107 or Z 111, 112 .......... 4-8
- Conditioning Procedures PE 313 .......................... 2
- Psycho/Soc Aspects of Sport PE 401 .......................... 3
- Coaching, Nature of Profession PE 430 .......................... 2

Coaching Methods selected from:
- Coaching Baseball PE 250 .................................. 2
- Coaching Wrestling PE 260 .................................. 2
- Two skills courses that complement coaching math courses 1 + 1
- Internship “Interscholastic Athletics” ............... 3

**TOTAL** .................................................. **22-30**

---

### Course Offerings

See page 20 for definition of course numbering system

## PE PHYSICAL EDUCATION

### Lower Division

PE 100 HEALTH EDUCATION (3-0-3/F). Covers nutrition, diseases, health needs, services, drugs, family living and personality structure and development. Enhances student adjustment toward effective functioning in a changing environment. Required of all PE and Athletic Training majors.

PE 101 FOUNDATIONS OF PHYSICAL EDUCATION (3-0-3/F). Instruction in physical education program offerings and requirements at BSU. Emphasis on an understanding of what is involved in the profession, including: interaction of humanities, exercise physiology, kinesiology, psycho-social aspects and human growth and motor development as related to physical education. Required of all PE and Athletic Training majors.

PE 103 INTRODUCTION TO RECREATION (2-0-2/S). In the growth and development of recreation education and its role in present-day society. Offered odd numbered years.

PE 107 INTRODUCTION TO COACHING (2-0-2/F). An overview of the various elements that are critical to the coaching process including: coaching philosophy, sport psychology, practice planning, conditioning principles, injury prevention/ rehabilitation, and sport management. Successful completion leads to American Coaching Effectiveness Program (ACEP) Level II certification. Special Fee: $7.00.

PE 113 RHYTHMIC SKILLS (0-2-1/F). Professional activity. Instruction and practice in rhythmic skills (locomotor, non-locomotor, and manipulative), emphasizing fundamental and practical application. Required of all PE majors.

PE 114 FITNESS FOUNDATIONS (0-2-1/F). Assessment, prescription and development of an individualized physical fitness program. Designed to improve cardiovascular endurance, strength, flexibility and weight control. Required of all PE and Athletic Training majors.

PE 115 TUMBLING SKILLS (0-2-1/F). Professional activities. Instruction and practice in tumbling skills, emphasizing fundamentals, skill progressions and practical application. Required of all PE majors.

PE 117 SPORTS SKILLS (0-1-1/F). Professional activities. Instruction and practice in sports skills, emphasizing fundamentals, skill progressions and practical application. Required of all PE majors.

PE 120 TRAINING ROOM PROCEDURES (0-2-1/F). Instruction in actual clinical aspects of campus athletic training programs, emphasizing observation and practical application. Required of all Athletic Training majors.

PE 121 STANDARD FIRST AID & CPR (1-2-1/F). Instruction in and application of basic skills and the multi-media approach to first aid and CPR training.

PE 122 ADVANCED FIRST AID & CPR (3-0-3/F). Instruction in wounds, shock, poisoning, heat and cold injuries, skeletal injuries, water rescue, CPR extrication, emergency child birth and training required for police, fire and ski patrol persons.

PE 123 FIRST AID INSTRUCTOR TRAINER COURSE (1-2-1/S). Instruction in methods of teaching CPR and Standard First Aid. Offered spring on odd numbered years.

PE 143 VOLLEYBALL (0-2-1/F). Professional activity. Instruction and practice in volleyball, emphasizing fundamentals, strategy, conditioning and practical application.
PE 144 BASKETBALL (0-2-1)(F/S). Professional activity. Instruction and practice in basketball, emphasizing fundamentals, strategy, conditioning and practical application.

PE 160 LIFETIME FITNESS AND HEALTH (3-2-4)(F/S). A survey of contemporary fitness and health related issues. Emphasis is upon providing an understanding of basic concepts that are essential for knowledgeable decision making. Topics include: mental health, stress, fitness, nutrition, drug use/abuse, disease and aging. Laboratory experiences stress lifestyle changes and an opportunity to set and achieve personal goals. May be taken for Physical Education credit or Health Science credit (H 160), but not both.

PE 203 RECREATIONAL ACTIVITIES (2-0-2)(F). Materials, methods and teaching progression in recreational activities for special groups and special situations. Offered in the fall on odd numbered years.

PE 212 TRACK AND FIELD (0-2-1)(F). Professional activities. Instruction and participation in track and field events for development of basic skills and techniques, emphasizing fundamentals, conditioning and practical application.

PE 212 WRESTLING (0-2-1). Professional activity. Instruction and participation in wrestling for development of basic skills and techniques, emphasizing fundamentals, conditioning and practical application. Offered in the fall on odd numbered years.

PE 217 WRESTLING (0-2-1). Professional activity. Instruction and participation in wrestling for development of basic skills and techniques, emphasizing fundamentals, conditioning and practical application. Offered on demand.

PE 218 RHYTHMIC GYMNASTICS (0-2-1). Professional activity. Instruction and participation in rhythmic gymnastics for development of basic skills and techniques, emphasizing fundamentals, skill progressions, conditioning and practical application. Offered on demand.

PE 230 APPLIED ANATOMY (2-2-3)(F/S). Investigation of human osteology, myology, arthrology and neurology as they relate to movement. Emphasis is upon application of anatomy to principles of simple and complex movement. Required of all PE and Athletic Training majors. PREREQ: Z 107 or Z 111, 112.

PE 236 INTRODUCTION TO ATHLETIC INJURIES (2-2-2)(F/S). Introduction to principles of care and prevention of sport induced injury. Emphasis will be on identification and differentiation of minor and major trauma related to sports participation. Required of all Athletic Training majors.


PE 251 COACHING BASKETBALL (2-0-2)(F). Instruction in methods of coaching basketball with emphasis on fundamentals, strategy, conditioning and practical application. PREREQ: Sophomore standing.

PE 252 COACHING FOOTBALL (2-0-2)(F). Instruction in methods of coaching football with emphasis on fundamentals, strategy, conditioning and practical application. PREREQ: Sophomore standing.

PE 254 SPORT OFFICiating (2-0-2). Instruction in officiating sports for development of skills and application of methods to sports.

PE 256 COACHING WOMEN'S GYMNASTICS (2-0-2). Instruction in methods of coaching women's gymnastics with emphasis on fundamentals, skill progressions, safety, conditioning and practical application. PREREQ: Sophomore standing. Offered on demand.

PE 257 COACHING TENNIS (2-0-2)(S). Instruction in methods of coaching tennis with emphasis on fundamentals, strategy, conditioning and practical application. PREREQ: Sophomore standing. Offered in spring on even numbered years.

PE 258 COACHING TRACK AND FIELD (2-0-2)(S). Instruction in methods of coaching track and field with emphasis on fundamentals, conditioning, meet organization/administration and practical application. PREREQ: Sophomore standing.

PE 259 COACHING VOLLEYBALL (2-0-2)(F). Instruction in methods of coaching volleyball with emphasis on fundamentals, strategy, conditioning and practical application. PREREQ: Sophomore standing.

PE 260 COACHING WRESTLING (2-0-2). Instruction in methods of coaching wrestling with emphasis on fundamentals, strategy, conditioning and practical application. PREREQ: Sophomore standing. Offered on demand.

PE 282 ADVANCED LIFESAVING (1-2-2)(F/S). Instruction and participation in life-saving skills. American Red Cross (ARC) course, including personal safety, self rescue, rescue training skills and back injury problems. Upon entrance student must be able to swim 500 yards.

PE 283 WATER SAFETY INSTRUCTOR'S COURSE (1-2-2)(S). Review of courses the student is eligible to teach. Teaching methods and practice teaching. Leads to American Red Cross (ARC) course, WSI certificate. Must have ARC advanced lifesaving certificate and ARC swimming level of skill.

PE 284 MICROCOMPUTERS IN PHYSICAL EDUCATION (3-0-3)(F/S). An introduction to the use of microcomputers in physical education and allied disciplines. The course includes BASIC programming, selection and evaluation of hardware and software, and unique computer applications for physical educators.

PE 293 INTERNSHIP (1-3 credits)(F/S). Practicum field experience in physical education related areas. Practical experience utilizing theory and practice of the assigned activity in various settings. Required in some options.

College of Education

PE 300 CURRICULUM PROFICIENCY IN PHYSICAL EDUCATION (3-0-3)(F). The planning of school physical education programs, including the selecting, structuring, sequencing, demonstrating and evaluating of content.

PE 303 INTRAMURAL ORGANIZATION (2-0-2)(F). Instruction in organization and administration of intramural activities. Offered in the fall on odd numbered years. PREREQ: Junior standing.

PE 304 INSTRUCTIONAL STYLES FOR TEACHING PHYSICAL EDUCATION (3-0-3)(S). Instruction and participation in the delivery of physical education lessons for school settings including class management, class organization, instructional methodology, observation skills and the evaluation of teaching. PREREQ: PE 300.

PE 306 HUMAN GROWTH AND MOTOR LEARNING (3-0-3)(F/S). Designed to give students a basic understanding of human growth and motor development, motor learning, psychology of learning, instruction and activity. PREREQ: Upper Division standing.

PE 309 EVALUATION IN PHYSICAL EDUCATION (3-0-3)(F/S). Instruction in philosophy of evaluation; test construction/evaluation/administration; statistical analysis and interpretation of test scores; computer applications for statistical analysis. PREREQ: Upper Division standing.

PE 310 EXERCISE PHYSIOLOGY (2-2-3)(F/S). Instruction in the physiological and biochemical changes accompanying exercise and training with emphasis on application of scientific principles to training program design. Required of all PE majors. PREREQ: Upper Division standing, PE 230.


PE 313 CONDITIONING PROCEDURES (1-2-2)(F/S). Instruction in conditioning procedures with emphasis on program planning, objectives, exercise analysis and prescription. PREREQ: Z 107 or Z 111, 112.

PE 341 SECONDARY SCHOOL DANCE METHODS (2-0-2)(F). Instruction in methods of teaching social, folk, square, rounds, mixers, and aerobic dance. Offered in the fall on even numbered years.

PE 357 DANCE FOR CHILDREN (2-0-2)(S). Instruction in the analysis of fundamentals, development of skills and application of methods in teaching dance to children. Offered in spring on odd numbered years.

PE 361 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS (3-0-3)(F). Instruction in methods of teaching elementary school physical education emphasizing movement needs, analysis and development of skills and practical application. PREREQ: Junior standing.

PE 369 MOTOR PROGRAMMING FOR SPECIAL POPULATIONS (2-0-2)(F). Instruction in motor growth and development, identification, assessment, prescription and methods of implementing fitness programs for special populations. PREREQ: Junior standing. PE 361.

PE 401-402G PSYCHO/SOCIAL ASPECTS OF ACTIVITY (3-0-3)(F/S). The course examines the social aspects of sport including values, education, religion, politics, social morality and the economy. Psychological factors related to performance includes personality, motivation and anxiety. PREREQ: Junior standing.

PE 402-402G ADVANCED ATHLETIC TRAINING (3-3)(S). Instruction in advanced theory and application of techniques of athletic training for student pursuing a career as professional athletic trainer. PREREQ: PE 236, 311. Offered in spring on odd numbered years.

PE 403 TRAINING ROOM MODALITIES (2-0-2)(F). Instruction in theory and application of various therapeutic modalities for care and treatment of athletic injuries, emphasizing cryotherapy, thermal therapy, and electrical modalities. PREREQ: Junior standing. PE 236, 311. Offered in the fall on even numbered years.

PE 405 CONSUMER HEALTH (2-0-2)(S). Instruction in factors involved in the selection and evaluation of health services and products, emphasizing quackery awareness, consumer protection laws and organizations and health insurance considerations. PREREQ: Junior standing.

PE 406 THEORY AND APPLICATION OF THERAPEUTIC EXERCISE (2-2-3)(S). Introduction to the theory and application of physical exercise for the treatment of musculoskeletal disorders in athletics. Topics will include passive, assistive and resistive forms of exercise as well as the current therapeutic modalities available. PREREQ: PE 236, 311.

PE 415 HEALTH PROGRAMS: METHODS AND ADMINISTRATION (3-0-3)(S). Instruction related to issues, trends and current administrative practices in health education. Emphasis placed upon topic sequencing, individual and social health problems and methods of teaching health related topics. PREREQ: Junior standing.

PE 417 HEALTH PROMOTION (2-2-3)(F/S). Course is designed to familiarize students with current trends and health promotion strategies. Provides both a theoretical and utilitarian practical background in risk factors, program implementation, education intervention, exercise testing and corporate culture. PREREQ: PE 310 and Upper division standing.
PE 422 INJURY EVALUATION (2-0-2)(F). Instruction in theory and application of
basic passive and functional examination of traumatic conditions resulting from
sports participation, emphasizing specific examination techniques. Offered in
the fall on odd numbered years.

PE 430 COACHING-NATURE OF THE PROFESSION (2-0-2S). Nature of the
coaching profession with emphasis on the functions of the coach in the in-
terscholastic athletic program. PREREQ: Junior standing.

PE 433 LEISURE COUNSELING (2-0-2)(S). Instruction in meeting needs of a more
free-time society through, fitness, social, artistic, community and learning ac-
tivities. Offered on demand.

PE 451 ADAPTED PHYSICAL EDUCATION (3-0-3)(S/F). Course is designed to ac-
quaint physical educators with the unique needs of the disabled. Emphasis wille on planning activities, games, sports and exercise programs that will pro-
tribute to the special student’s developmental health and wellness. PREREQ: PE
230, 310 and Senior standing.

PE 457 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION
(2-0-2)(F). Instruction in Organization and Administration of physical educa-
tion and athletic programs. Emphasis upon the role of physical education and
athletics in the total education program. Required of all Physical Education
Teaching majors. PREREQ: Upper Division standing.

PE 481 FACILITIES AND EQUIPMENT (2-0-2). Instruction in physical education
and athletic facility and equipment care and planning, emphasizing needs, codes,
materials, space requirements, equipment and supply purchase and care, and
computer programming.

PE 493 INTERNSHIP IN PHYSICAL EDUCATION (1-6 Credits/F). Practical field
experience in physical education related areas. Opportunity to apply knowledge
and theory learned in classroom to practical setting. Required in some options.
PREREQ: Permission of instructor.

FA ACTIVITY

The Fitness Activity Program provides for beginning, intermediate and advanced
levels of instruction in a variety of activities to meet the needs and interests of
the student. The courses meet two hours per week for one semester. One credit
will be granted for successful completion. Eight credits of fitness activity courses
may be counted as electives toward graduation. No fitness activity course may
be challenged for credit. All fitness activity courses are graded pass/fail whereby
credit earned will count toward graduation but will earn no quality points to be
used in calculation of the grade point average.

*FA 160 Stretch & Tone, FA 161 Aerobic Dance and FA 162 Adapted Physical Education may
be repeated for credit.

Fitness activity course numbers provide the following information:

1. The first digit indicates skill level (I, II, III).
   a. LEVEL I courses are designed for the beginner who has had little or no
      instruction in the activity.
   b. LEVEL II is for the individual who has command of basic skills and is of
      intermediate performance level.
   c. LEVEL III is for the individual who has command of intermediate skills
      and is ready for emphasis on advanced game strategies and skills.

2. The second digit indicates the activity classification (1-aquatics, 2-dance,
   3-individual sports, 4-martial arts, 5-outdoor pursuits, 6-personal fitness,
   7-racquet and court sports, 8-team sports, 9-participation sports).

3. The third digit indicates the specific activity (example: 1-kayaking, 2-skim
   scuba diving, etc.)

Lower Division

FA 111 KAYAKING (0-2-1)(F/S). Basic skills of kayaking. Covers safe handling, self-
rescue skills and helping or rescuing others. Students must be able to maintain
themselves in deep water, fully clothed for ten minutes. Special fee: full time
students exempt. (Pass/Fail).

FA 112 SKIN AND SCUBA DIVING I (0-2-1)(F/S). Basic skin and scuba diving skills.
Proper use of mask, fins and snorkel, mechanical use of equipment, safety techni-
ques, and panic control are stressed. Students must swim 400 yards, tread water
for 15 minutes and carry a ten pound weight 25 yards. Certification is optional.
Special fee: full-time students exempt. (Pass/Fail).

FA 113 SWIMMING (0-2-1)(F/S). Basic water safety, skill and knowledge; floating,
breathing, rolling, dive, rhythmic breathing, treading water, and introduction to the
crawl, sidestroke and elementary backstroke. For students who do not know how to
swim. (Pass/Fail).

FA 114 RAFTING (0-2-1S). Basic skills of rafting. Covers safe handling, self-
rescue skills and helping or rescuing others. Students must be able to maintain
themselves in deep water, fully clothed for ten minutes. Special Fee: full time
students exempt. (Pass/Fail).

FA 115 AEROBIC SWIMMING (0-2-1)(F/S). Instruction and participation in water
aerobics for the development of cardiovascular and neuromuscular fitness.
(Pass/Fail).

FA 116 CANOEING (0-2-1)(F/S). Develop proper stroking/handling techniques and
knowledge of river currents. Learn to paddle on lakes, reservoirs and flat rivers
or experience the excitement of white water canoeing. Must be able to swim.
Special fee: full time students exempt. (Pass/Fail).

FA 117 SAILING (0-2-1)(F/S). Learn the basic techniques of sailing. Instruction in-
cludes rigging, safety procedures, knot tying, terminology, boat care and naviga-
tion. Involved lectures and weekend sailing trip. Special fee: full time students
exempt. (Pass/Fail).

FA 119 CYCLING (0-2-1)(F/S). Learn proper cycling technique, bicycle mechanics,
road safety and tour planning. Special fee: full time students exempt. (Pass/Fail).

FA 120 ROCK CLIMBING (0-2-1)(F/S). Learn the challenge of rock climbing. Basic
knots, rappelling, belaying and other climbing skills are taught. No experience
necessary. Special fee: full time students exempt. (Pass/Fail).

FA 121 BALLET I (0-2-1)(F/S). A structured class in the basics of classical dance
(Barre) work and technique with historical background stressed. Designed as a
tool to help students gain strength and agility. (Pass/Fail).

FA 122 FOLK DANCE I (0-2-1). Instruction and participation in techniques and
application of basic steps and patterns used in folk dances from different coun-
tries. (Pass/Fail).

FA 123 MODERN DANCE I (0-2-1)(F/S). Opportunities for developing a sensitiv-
ity to the use of body movement, space, and time for creative expression. Im-
provement of flexibility, balance, coordination, and relaxation by using modern
dance techniques and movement exploration. (Pass/Fail).

FA 124 SOCIAL DANCE I (0-2-1)(F/S). Instruction and participation in dance fun-
damentals including: waltz, polka, jitterbug, foxtrot, western swing, cha cha, sam-
ba, tango, folk, square, round dances, and mixers. (Pass/Fail).

FA 125 JAZZ DANCE (0-2-1)(F/S). Basic fundamentals and techniques of Jazz dance.
(Pass/Fail).

FA 131 ARCHERY I (0-2-1). Provides the beginning archery students with instruc-
tion and participation in fundamental techniques of archery; target, field, clout,
bow hunting, novelty, etc. (Pass/Fail).

FA 133 BOWLING (0-2-1)(F/S). Instruction and participation in bowling for
development of fundamental skills, rules, handicaps, and scorekeeping. Special
fee required. (Pass/Fail).

FA 134 FENCING I (0-2-1). Instruction and participation in fencing for develop-
ment of basic skills and techniques. (Pass/Fail).

FA 135 GOLF I (0-2-1)(F/S). Instruction and participation in golf for development
of fundamental skills, rules, and proper etiquette of the game. Special fee re-
quired. (Pass/Fail).

FA 136 GYMNASTICS I (0-2-1)(Coed). Instruction and participation in gymnastics
for development of fundamental skills and spotting and safety techniques. (Pass/Fail).

FA 141 DEFENSIVE TACTICS I (0-2-1). Defense against one or more persons, arrest,
control devices, and individual/group tactics. For criminology majors only. GI
required. (Pass/Fail).

FA 142 JUDO I (0-2-1). Principles and philosophy of judo and techniques of fall-
ing, throwing, and grappling. GI required. (Pass/Fail).

FA 143 KARATE I (0-2-1)(F/S). Presentation of techniques based on the theory of
energy conservation. Exercises coordinating the mental and physical powers
possessed by every individual. GI required. (Pass/Fail).

Coordination of mind and body and nonaggressive application of laws of grav-
ity and force. Improvement of coordination and condition of the participant.
GI required. (Pass/Fail).

FA 150 WINTER MOUNTAINEERING (0-2-1)(F/S). Course designed to teach a person
how to cope with the mountain winter environment in comfort and safety.
Includes mountaineering techniques, first aid, snow shelter, avalanche aware-
ness, equipment, map and compass. Students spend the night in self-made
shelters and put knowledge to practical application. Special fee: full time students
exempt. (Pass/Fail).

FA 151 ALPINE SKIING I (0-2-1)(F/S). Basic skills and techniques of alpine skiing.
Students furnish equipment and transportation. Special fee required. (Pass/Fail.)

FA 152 BACKPACKING, CAMPING, AND SURVIVAL SKILLS I (0-2-1)(F/S).
Fundamentals and skills in backpacking, overnight camping, and basic survival.
Includes choice and care of equipment, camping sites, outdoor cooking skills,
and ecology. Students furnish equipment and transportation. (Pass/Fail).

FA 153 CROSS COUNTRY SKIING I (0-2-1)(F/S). Basic skills and techniques of cross
country skiing. Students furnish equipment and transportation. Special fee re-
quired. (Pass/Fail).

FA 154 FLYCASTING AND STREAM STRATEGY I (0-2-1)(F/S). Techniques of
flycasting, including single and double haul methods. Presentation of insect, min-
now, and terrestrial imitations. Techniques of casting and releasing of warm
water, cold water, and anadromous fishes. Students furnish equipment and
transportation. (Pass/Fail).

FA 155 FLYTYING I (0-2-1)(F/S). A practical orientation and application of flytying
skills for the beginning or experienced fly tier. The course will focus on tying
dry and wet flies, nymphs, bucktails, and streamers. Special fee required. (Pass/Fail).

College of Education
FA 156 TRAP AND SKEET SHOOTING I (0-2-1)(F/S). A course in fundamental skills of shotgun shooting. Sighting procedures, gun parts, care of equipment, and safety are stressed. Shotgun trap loading is also taught. Students must furnish shotgun, shells, and trap range fees. (Pass/Fail)

FA 157 CAVE EXPLORATION (0-2-1)(F/S). Instruction includes information about types of caves, formations, formation growth, essential equipment and utilization of proper safety techniques. Conservation of natural resources is emphasized as part of cave exploration field trips. Special Fee: full-time students exempt. (Pass/Fail)

FA 158 RECREATIONAL OUTDOOR PHOTOGRAPHY (0-2-1)(F/S). The mechanics of camera and flash systems are covered along with trouble shooting, use of shutter speed, aperture, and composition. The course consists of four (4) classroom sessions plus weekend field trips to various recreational settings where hiking is involved. Art students may not substitute this class for another photography course required as part of their major. Special fee: Full-time students exempt. (Pass/Fail)

FA 159 MOUNTAIN BIKING (0-2-1)(F/S). Equipment orientation, basic mechanics and maintenance, riding techniques, trip planning and logistics are all part of the itinerary. Several evening rides as well as an overnight trip in the backcountry are scheduled. Students must provide their own mountain bikes and helmets. Special fee: full-time students exempt. (Pass/Fail)

FA 160 STRETCH AND TONE (0-2-1)(F/S). Instruction and participation in conditioning exercises and stretches for the development of fitness and flexibility. May be repeated for credit. (Pass/Fail)

FA 161 AEROBIC DANCE (0-2-1)(F/S). Instruction and participation in aerobic dance for the development of cardiovascular and neuromuscular fitness. May be repeated for credit. (Pass/Fail)

FA 162 ADAPTED PHYSICAL EDUCATION I (0-2-1)(F/S). Adaptive and corrective exercise programs to aid men and women who are unable to participate in a regular activity class. Course is structured to meet the special needs of the individual. May be repeated for credit. (Pass/Fail)

FA 163 JOGGING I (0-2-1). Instruction and participation in endurance running. The student will be pretested and placed in a level suitable to his/her capabilities as to age and condition. Designed to develop and maintain the cardio-respiratory system. (Pass/Fail)

FA 164 PERSONAL FITNESS AND WEIGHT CONTROL I (0-2-1). Introduction to the essential components of total fitness with prescribed fitness programs for individual needs. (Pass/Fail)

FA 165 WEIGHT TRAINING I (0-2-1). Instruction and participation in progressive body-building and conditioning exercises with resistance for development of beginning skills and fitness. (Pass/Fail)

FA 166 YOGA AND STRESS MANAGEMENT I (0-2-1). Introduction to yoga theory, practice, and tradition; introduction to stress/distress theories; in-depth practice of Hatha Yoga postures; in-depth breath control (abdominal breath). (Pass/Fail)

FA 167 RELAXATION TECHNIQUES (0-2-1). Knowledge and application of the scientific literature regarding the practice of physiological relaxation including autogenics, meditation and tension reduction leading to self mastery. (Pass/Fail)

FA 171 BADMINTON I (0-2-1). Instruction and participation in badminton to encourage skill development, understanding, and appreciation of the game. (Pass/Fail)

FA 172 RACQUETBALL I (0-2-1)(F/S). Instruction and participation will emphasize basic techniques and skills of racquetball with emphasis on playing procedures. Students furnish racquets and balls. Protective eyewear required. (Pass/Fail)

FA 173 TENNIS I (0-2-1)(F/S). Instruction and participation in tennis for development of fundamental skills, rules, and basic strategy. Students furnish rackets and balls. (Pass/Fail)

FA 181 BASKETBALL I (0-2-1)(F/S). Instruction and participation in basketball for development of fundamental skills, rules, and basic team strategy. (Pass/Fail)

FA 182 SOFTBALL I (0-2-1). Instruction and participation in softball for development of fundamental skills, rules, and basic team strategy. (Pass/Fail)

FA 186 VOLLEYBALL I (0-2-1)(F/S). Instruction and participation in volleyball for development of fundamental skills, rules, and basic team strategy. (Pass/Fail)

FA 187 SOCCER I (0-2-1)(F/S). Instruction and participation in soccer for development of fundamental skills, rules and basic team strategy. (Pass/Fail)

FA 190 CLUB SPORTS I (0-2-1)(F/S). Instruction and participation in club sports approved by the BSU Student Senate. Club advisor’s approval required. (Pass/Fail)

FA 191 VARSITY SPORTS I (0-2-1)(F/S). Instruction and participation in varsity lands approved by the BSU Department of Athletics. Coach’s approval required. (Pass/Fail)

FA 216 WHITEWATER CANOEING (0-2-1)(F/S). Students will canoe whitewater rivers and have the opportunity to experience surfing, eddy turns and river hydraulics. American Red Cross Certification is available. All equipment is supplied. Participants must be able to swim. PREREQ: FA 116 or PERMINS. Special fee: full-time students exempt. (Pass/Fail)

FA 222 FOLK DANCE II (0-2-1). Instruction and participation in folk dance for development of advanced skills. (Pass/Fail)

FA 223 MODERN DANCE II (0-2-1). Instruction and participation in intermediate modern dance for development of flexibility, balance, coordination and movement, control leading to dance choreography and production work. PREREQ: FA 123 (Pass/Fail)

FA 224 SOCIAL DANCE II (0-2-1). Instruction and participation in social dance for development in the waltz, cha cha, fox trot, rhumba, tango, lindy, western swing, folk, square, and various novelty dances. (Pass/Fail)

FA 233 BOWLING II (0-2-1). Instruction and participation in bowling for development of intermediate skills and techniques. Special fee required. PREREQ: FA 133 (Pass/Fail)

FA 235 GOLF II (0-2-1). Instruction and participation in golf for development of intermediate skills and techniques. Special fee required. PREREQ: FA 135 (Pass/Fail)

FA 236 GYMNASTICS II (0-2-1)(Coed). Instruction and participation in gymnastics for development of intermediate skills and techniques, performing combinations, compulsory and optional routines. PREREQ: FA 136. (Pass/Fail)

FA 242 JUDO II (0-2-1). Instruction and participation in judo for those seeking advanced degrees. CI required. PREREQ: FA 142. (Pass/Fail)

FA 243 KARATE II (0-2-1). Instruction and participation in karate for development of advanced skills and techniques. CI required. PREREQ: FA 143. (Pass/Fail)

FA 244 SELF-DEFENSE II (0-2-1). Instruction and participation in advanced defensive tactics of Aikido, Ju-Jutsu, and Karate. Coordination of mind and body and nonaggressive application of laws of gravity and force. CI required. PREREQ: FA 144. (Pass/Fail)

FA 259 BICYCLE RACING (0-2-1)(F/S). Pre-race training, coping strategies, time trials, and triathlon competition are part of the content. Additional instruction includes bicycle maintenance and safety in racing and triathlon settings. Students must provide their own bicycles and helmets. Special fee: full-time students exempt. (Pass/Fail)

FA 265 WEIGHT TRAINING II (0-2-1)(F/S). Instruction and participation in progressive body-building and conditioning exercise with resistance for development of intermediate skills. PREREQ: FA 165. (Pass/Fail)

FA 272 RACQUETBALL II (0-2-1)(F/S). Instruction and participation in racquetball for development of intermediate skills and techniques. Students furnish racquets and balls. Protective eye wear is required. PREREQ: FA 172. (Pass/Fail)

FA 273 TENNIS II (0-2-1). Instruction and participation in tennis for development of intermediate skills and techniques. Students furnish rackets and balls. PREREQ: FA 173. (Pass/Fail)

FA 281 BASKETBALL II (0-2-1)(F/S). Instruction and participation in basketball for development of intermediate skills and techniques. PREREQ: FA 181. (Pass/Fail)

FA 286 VOLLEYBALL II (0-2-1)(F/S). Instruction and participation in volleyball for development of intermediate skills and techniques. PREREQ: FA 186. (Pass/Fail)

FA 290 CLUB SPORTS II (0-2-1)(F/S). Instruction and participation in club sports approved by BSU Student Senate. Club advisor’s approval required. (Pass/Fail)

FA 291 VARSITY SPORTS II (0-2-1)(F/S). Instruction and participation in varsity sports approved by the BSU Department of Athletics. Coach’s approval required. (Pass/Fail)

Upper Division

FA 313 SWIMMING III (0-2-1)(F/S). Participation in swimming for development of advanced skills and techniques. Instruction in stroke mechanics, training program design, starts, turns, and survival swimming. PREREQ: FA 213. (Pass/Fail)

FA 365 WEIGHT TRAINING III (0-2-1)(F/S). Instruction and participation in progressive body-building and conditioning exercises with resistance for development of advanced skills and fitness. PREREQ: FA 265. (Pass/Fail)

FA 372 RACQUETBALL III (0-2-1)(F/S). Instruction and participation in racquetball for development of advanced skills and techniques. Emphasis on doubles play and safety. Students furnish racquets and balls. Protective eye wear is required. PREREQ: FA 272. (Pass/Fail)

FA 373 TENNIS III (0-2-1). Instruction and participation in advanced drills, game experience and strategy, and study of the USTA rules and code. Students furnish rackets and balls. PREREQ: FA 273. (Pass/Fail)
Degrees Offered

- BA and BS in Psychology

Special Information for Students

1. The College of Education, through its Department of Psychology, confers a baccalaureate degree in psychology. Because of the core requirements for all candidates, it is regarded as a degree in general psychology; but some latitude is allowed within the framework set by those requirements.

   The student should be aware, however, that the total program is designed to produce a graduate with a strong background in basic psychology, and should not regard successful completion of that program as a preparation to perform psychological services. Rather, the student should think of it as (1) a demonstration of educational attainment, like any other successful academic experience, and (2) preparation for more specialized training in professional or academic psychology or in some related field.

2. Psychology is classified as a social science by the university, but not by the State Department of Education. You can apply psychology toward a baccalaureate degree in Social Sciences. (In this catalog see the sections on Economics, History, Political Science, Anthropology and Sociology.) If you do that, you may be certified to teach the subjects that are classified by the State as "social studies," but you will not be certified to teach psychology unless you also meet the requirements of the Psychology Minor.

3. Any student who is planning a career of counseling in the schools should major either in Elementary Education or in some subject matter area that includes a Secondary Education Option. Psychology courses often are explicitly prescribed parts of such programs; additional courses may be taken as electives.

4. Every psychology course that is specifically required for the baccalaureate degree in psychology must be passed with a grade of 'C' or better in order to qualify a student for that degree.

Degree Requirements

**PSYCHOLOGY MAJOR**

Bachelor of Arts or Bachelor of Science Degree

1. Lower Division:
   a. English Composition ........................................ 3-6
   b. Arts and Humanities Total Credits ........................ 12
      Area I Core Courses: ......................................... 12
         Literature ................................................... 3
         Second Area I Field ....................................... 3
         Third Area I Field ......................................... 6
      Any Area I Field ............................................ 3
   c. Social Sciences Total Credits ................................ 21
      Area II Core Courses ......................................... 12
         General Psychology P 101 .................................. 3
         History ..................................................... 3
         Third Area II Field ....................................... 6
         Any Area II Field .......................................... 2
      Non-core Courses ............................................ 10
         Psychological Psychology P 225 ............................ 3
         Intro Practice of Psychology P 201 ........................ 3
         Computer Appl in Social Science SO 210 ............... 4
   d. Natural Science-Math Total Credits .......................... 16
      Area III Core Courses ........................................ 12*
         Concepts of Biology B 100 .................................. 4
         Second Area III Field .................................... 4
         Any Area III Field ......................................... 4
      Non-core Courses ............................................... 4
         Concepts of Human Anat & Phys Z 107 ...................... 4
         Mathematics .................................................. 8*

   *If the selected Mathematics courses are Area III Core courses, they may also apply toward the requirement of 12 credits in the Area III Core.

2. Upper Division
   a. Psychology Total Credits ...................................... 25
      Statistical Methods P 429 .................................. 3
      Experimental Design P 321 ................................ 4
      Learning P 441 ............................................ 3
      P 341, P 343, or P 345 .................................... 3
      Two courses from the following: P 301, P 309, P 310, P 351, P 431 ........................................ 6
   b. Upper Division Elective Credits .............................. 15
   c. Free Elective Credits ......................................... 32-35

PSYCHOLOGY REQUIREMENTS

FOR CERTIFICATION BY STATE DEPARTMENT OF EDUCATION

Social Science, Secondary Education Option Major

P 101 General Psychology ........................................... 3
P 301 Abnormal Psychology ........................................ 3
P 351 Personality .................................................. 3
Psychology Upper Division Electives ............................ 6
TOTAL 15

PSYCHOLOGY MINOR

P 101 General Psychology ........................................... 3
P 301 Abnormal Psychology ........................................ 3
P 305 Statistical Methods .......................................... 3
P 351 Personality .................................................. 3
Psychology Upper Division Electives ............................ 6
TOTAL 21

Recommended Program

**PSYCHOLOGY MAJOR**

1st SEM 2nd SEM

FRESHMAN YEAR

*English Composition E 101, 102 .................................. 3 3
**Mathematics Elective ........................................... 4 4
***Area II Core Electives (e.g., AN 102, SO 101) .............. 3 6
****Area I Core Electives ........................................ 3 3
TOTAL 15

SOPHOMORE YEAR

**Literature .......................................................... 3 -
**Mathematics Elective ........................................... 4 -
*Psychological Psychology P 225 ................................ 3*
**Area I Core Electives ........................................... 3 6
****Area I Core Electives ........................................ 3 -
TOTAL 16 15

JUNIOR YEAR

*Computer Applications in Soc Sci SO 210 ...................... - 4
*Statistical Methods P 305 ...................................... 3 -
*Experimental Design P 321 .................................... 4 -
*Psychology Seminar P 398 .................................... 1 -
*Learning P 441 .................................................. 3 -
*P 341, P 343, or P 345 ........................................ 3 -

and two courses from the following:

P 301, P 309, P 310, P 351, P 431 ................................ 3 6
*Upper Division Electives (Psych. or other) .................. 7 2
TOTAL 16 17

SENIOR YEAR

***Two courses from P 405, P 421, P 499 ...................... 3 3
**Systems Seminar P 489 ........................................ 3 -
**Upper Division Electives (Psych. or other) ................ 3 -
****General Electives ............................................ 9 7
TOTAL 15 16

*Specifically required.
**Courses approved for the Core.
***One course is specifically required. A minimum of two courses are highly recommended for students planning for graduate school.
****It is advisable for students planning for graduate school to obtain additional credits in mathematics and the sciences.
College of Education

Course Offerings
See page 20 for definition of course numbering system

P PSYCHOLOGY

Lower Division

P 101 GENERAL PSYCHOLOGY (3-0-3)(S/AREA II). An introductory course in psychology and a prerequisite to most other psychology courses. Empirical findings are major concerns in the treatment of such topics as perception, learning, language, intelligence, personality, social interactions, and behavioral problems. An overview of scientific methodology is provided.

P 125 BRAIN, MIND AND BEHAVIOR (1-0-1)(F). An educational television series with accompanying textbook, the eight one-hour programs focus on the mysteries of consciousness, vision and movement, pain, anxiety and behavior, memory, the relationship between thought and language, schizophrenia, and implications of brain research for the future. Examinations will be administered through the mail.

P 141 SECOND WIND (3-0-2)(F). Course specifically designed for “entry” students; women and men 25 years of age or older who are returning to school, or considering a return to school, after having been away for some years. Topics will include career and academic decision making, academic survival skills, making the transition to university life, time management, and stress management. The problems, opportunities and issues involved in meeting the demands of multiple roles will be considered. Pass/Fail.

P 151 CAREER AND LIFE PLANNING (3-0-3)(S/F). Career and Life Planning devotes three weeks to each of the following areas: (1) knowing self, (2) the world of work, (3) identifying resources, (4) actual career planning, and (5) proposed implementation of career and life plans. Students are expected to participate through work study sheets, interviews and visitations and by arranging for resources pertinent to classroom activities. Pass/Fail. Limited enrollment. Cannot be used to meet Area II requirements.

P 161 ASSERTIVENESS TRAINING (3-0-3)(F/S). This course is designed to improve the communication skills of those who are experiencing difficulty in expressing their feelings and opinions openly, honestly, and constructively to others. Group techniques will include training films, behavioral rehearsals and role-playing. Pass/Fail. Limited enrollment.

P 201 INTRODUCTION TO PRACTICE OF PSYCHOLOGY (3-0-3)(S). An exposure to psychology as it is actually applied as professional practice in public and private settings. Direct interaction, through lecture and discussions, with psychologists who are employed in a wide variety of specific occupations. Designed for psychology majors but others accepted if they have completed the introductory course. PREREQ: P 101.

P 211 CHILD PSYCHOLOGY (3-0-3)(F/S). A study of development and adjustment from conception to adolescence with an emphasis on school-aged children. Consideration will be given to both constitutional and environmental factors, to normal growth patterns, and to problem areas. Not for psychology majors. PREREQ: P 101.

P 212 ADOLESCENT PSYCHOLOGY (3-0-3)(F/S). Chronologically a continuation of child psychology P 211; the special conditions of adolescent growth and adjustment will be emphasized in the course. Consideration will be given to maturational and social patterns, and to behavioral, learning and other problem areas. Not for psychology majors. PREREQ: P 211.

P 220 EDUCATIONAL PSYCHOLOGY (3-0-3)(F). A critical examination of some psychological concepts that have relevance to the process of education. Not for psychology majors. PREREQ: P 101.

P 225 PHYSIOLOGICAL PSYCHOLOGY (3-0-3)(F). A survey of classical and current problems, with emphasis on central and peripheral nervous systems in the processing of information and organization of behavior. Perception, motivation, emotion and learning are studied from this point of view. PREREQ: P 101, Z 107.

P 251 PSYCHOLOGY OF ADJUSTMENT (3-0-3)(S). The course is designed to help each student develop a more effective approach to reaching educational and personal goals. Theory and techniques related to individual adjustment (goal identification, value clarification, stress management, self-control) will be presented along with discussion of interpersonal relationships and communication skills. PREREQ: P 101.

P 261 HUMAN SEXUALITY (3-0-3)(F). An overview of human sexuality emphasizing both physiological and psychological aspects of sexuality. Topics include sexual anatomy and physiology, sexual response cycle, childbirth, contraception, sexual dysfunction, sex role development, and sexual deviation. Cross cultural variations will be examined, and a values clarification unit will be included. Practical experience in rendering academic assistance to beginning students and managing large classes. Seminar discussion of difficulties encountered by those students. PREREQ: Senior or 2nd-semester junior standing in psychology with an upper division GPA above 3.0 and PERM/INST.

P 291 DEATH: A CONFRONTATION FOR EVERYONE (3-0-3)(F). A multifaceted course dealing with the subject of death and dying, its historical and social ramifications, and present impact on the nature of living.

Upper Division

NOTE: Upper Division Psychology courses are saved for Upper Division students.


P 303 STATISTICAL METHODS (3-0-3)(F/S). Statistical concepts and methods commonly used in treatment of data in the social sciences. Topics covered will include: measures of central tendency and of variability, correlation, measures of probability and analysis of variance. PREREQ: P 101, High School Algebra.

P 309 LIFE-SPAN DEVELOPMENT (3-0-3)(F). Designed for psychology majors, the course will emphasize theories of human development including psychodynamic, behavioral, social-learning, and cognitive. Contemporary views of heredity and environment will be considered. Research design and appropriate methods of developmental issues will be explored. The emphasis will be on development from the prenatal period to adolescence. Credit cannot be obtained for both P 211 and P 309. PREREQ: P 101.

P 310 LIFE-SPAN DEVELOPMENT II (3-0-3)(S). A continuation of the study of human development with the emphasis on development from adolescence to death. Credit cannot be obtained for both P 212 and P 310. PREREQ: P 309.

P 313 PSYCHOLOGY OF AGING (3-0-3)(F/S). An examination of the functional changes occurring during the aging process. Topics will include contemporary theories on the aging process, psychological changes related to aging, behavioral and cognitive changes in old age, the psychology of death and dying. Attention will be given to mental health problems of the aged, diagnosis, and therapy. PREREQ: P 101.

P 321 EXPERIMENTAL DESIGN (2-4-4)(F/S). The application of scientific methodology to the study of behavior. Design of experiments, methods of analysis and interpretation of behavioral research. PREREQ: P 305.

P 331 THE PSYCHOLOGY OF HEALTH (3-0-3)(F/S). Principles that have emerged from the experimental analysis of behavioral and psychological factors which influence health, and the role of the health care system. Consideration will be given to the roles of stress, coping, health beliefs, health behaviors, and the impact of medical intervention. PREREQ: P 101.

P 341 PERCEPTION (3-0-3)(S). A survey of the basic concepts in the psychology of perception. Present day research and findings from the human information processing approach are emphasized. Processes are stressed, although coverage of receptor structure and neural pathways is included. PREREQ: P 101.

P 343 THE PSYCHOLOGY OF THOUGHT (3-0-3)(F). Examines basic processes of attention and information processing, memory and forgetting; concept formation and the representation of knowledge; reasoning; creativity; and computer simulation of these processes. PREREQ: P 101.

P 345 THE PSYCHOLOGY OF LANGUAGE (3-0-3)(S). Examines language structure, types of grammar, problems of meaning, competence versus performance, whether or not nonverbal behavior is language, verbal, linguist computation, and cultural factors in language. PREREQ: P 101.

P 351 PERSONALITY (3-0-3)(F). A study of the major contemporary theories and concepts of personality, with special emphasis on psychoanalytic, humanistic and behavioral approaches. PREREQ: P 101.


P 357 PEER COUNSELING: THE HELPING RELATIONSHIP (3-0-3)(F/S). This course will explore relevant dimensions of the helping relationship, especially the role of the helper. Emphasis will be on developing effective communications and fundamental counseling skills through required student participation in role-playing, audio and especially videotaping and group activities. Limited enrollment. PREREQ: P 101. (Pass/Fail).

P 371 SOCIAL PSYCHOLOGY OF SEX ROLES (3-0-3)(S). This course will examine sex roles in our own society. Attention will be given to the development of identity and roles, the social utility and rigidity of sex roles, the implications of sex roles for institutional policy and the effect of such policy on cultural change. This course may be taken for psychology or sociology credit but not for both. PREREQ: P 101 or SO 101.

P 398 PSYCHOLOGY SEMINAR (1-4-1)(S). Selected topics of special interest to seniors planning careers in psychology. Pass/Fail.

P 401 SENIOR REVIEW PRACTICUM (0-3-3)(F/S). A systematic coverage of the general principles of psychological theory to teach them to college students. Practical experience in rendering academic assistance to beginning students and managing large classes. Seminar discussion of difficulties encountered by those students. PREREQ: Senior or 2nd-semester junior standing in psychology with an upper division GPA above 3.0 and PERM/INST.

P 405-405G ADVANCED STATISTICAL METHODS (2-4-4). Statistical concepts and methods commonly used in the treatment of data in the social sciences will be covered. These include advanced topics in univariate statistics (e.g., repeated measure ANOVA) as well as more advanced topics such as discriminant analysis, factor analysis and principal component analysis. PREREQ: P 305 or equivalent or PERM/INST.

P 421-421G PSYCHOLOGICAL MEASUREMENT (3-0-3)(F). An introduction to the theory and nature of psychological measurement together with a survey of types of psychological tests currently used. PREREQ: P 101 and P 305.

P 431 SOCIAL PSYCHOLOGY (3-0-3)(F). The primary focus is the individual; the unit of analysis, the interpersonal level. A study of individual motives, emotions, attitudes, and cognitions with reference to interactions with other human beings. SO 101 is strongly recommended. PREREQ: P 101.

P 441 LEARNING (3-0-3)(F). Fundamental concepts of learning, with emphasis on recent developments in the field. Topics to be covered include conditioning, role learning, problem solving, memory, discrimination, and motor skills. PREREQ: P 101 and P 305. P 321 may be taken before or concurrently with P 441.

P 489 SYSTEMS SEMINAR (3-0-3)(S). Theories and controversies in American education. PREREQ: Senior standing in Psychology. This course is an intensive discussion of current issues and controversies in American education. The emphasis is on developing critical thinking skills and the ability to evaluate and present arguments effectively. Students will be expected to participate actively in class discussions and to contribute to the seminar through written assignments. This course is designed to prepare students for future careers in education or related fields.

P 493 INTERNSHIP IN PSYCHOLOGY (Variable Credit). Some internship experiences are available through the department. Credit may be granted for psychological activities in applied settings. PREREQ: Upper Division standing, Psychology major, cumulative GPA above 3.00 and PERM/INST.

P 495 SENIOR THESIS (0-3-3)(F/S). An individual research project in psychology selected by student. Proposal must be approved by instructor before enrolling. Recommended projects are those which will contribute to the body of psychological knowledge or will apply psychological principles to practical problems. Recommended for psychology students planning on graduate school. PREREQ: P 101 and P 321, PERM/INST.

P 496 INDEPENDENT STUDY IN PSYCHOLOGY (Variable Credit). Independent Study is an opportunity to earn academic credit outside of the established curriculum. It assumes the confluence of two streams of interest—that of a student and that of a professor. Thus, enrollment is contingent on a voluntary commitment to the project by both parties. PREREQ: Upper Division standing, Psychology major, cumulative GPA above 3.00 and PERM/INST.

P 499 EXPERIMENTAL RESEARCH (1-4-3)(F). A research topic, along with its theoretical background and relevant empirical findings, will be supplied by the instructor to each student. The student will learn to operate the necessary apparatus; to prepare instructions, explanation, and written materials; to run subjects; to analyze results; and to write a research report in American Psychological Association style. PREREQ: P 321, PERM/INST.

Department of Teacher Education

Education Building, Room 205, Telephone (208) 385-3602
Chairperson and Professor: Virgil M. Young; Professors: Bieter, Edmundson, Frederick, Friedli, Hart, Hill, J. Jensen, Kirkland, Lambert, Sadler, Singh, Waite; Associate Professors: Bauwens, French, Hourcade, M. Jensen, Lyons, Morrison, Pearson, Suedmeyer, K. Young; Assistant Professors: Anderson, Bahruth, Christensen, Guerin, Lindsey, Matthews, Ritchie, Singletary, Vinz.
Coordinator of Foreign Languages and Associate Professor: Jay Fuhriman; Professors: Jocums, Valverde; Associate Professor: Robertson.

Degrees Offered
- Elementary
- BA in Elementary Education
- BA in Elementary Education, Bilingual-Multicultural
- Secondary
- Students seeking secondary certification must complete a Bachelor's degree within the University department offering the content courses in their chosen subject area. Professional secondary education option coursework is taken in the Department of Teacher Education.
- Graduate
- A Master of Arts/Science in Education is offered through the Department of Teacher Education. The candidate may select from 10 areas of emphasis: (1) Art, (2) Curriculum and Instruction, (3) Early Childhood, (4) Earth Science, (5) English, (6) Instructional Technology, (7) Mathematics, (8) Music, (9) Reading, (10) Special Education. The specifics of the programs are presented in the Graduate College section of this catalog.

Department Statement

Education is a life-long activity and schools serve as a major force in promoting ongoing learning and growth by individuals and the society. Effective schools require teachers to understand theory and translate it into sound practice. The major purpose of the Department of Teacher Education is to prepare teachers who—
- critically analyze issues in education
- see teaching as a problem-solving activity
- draw on their backgrounds in liberal studies to make reasoned instructional decisions
- demonstrate commitment to ongoing professional development
- act in ways which reflect high standards of ethics
- utilize research information to make decisions about educational practices
- accommodate students who have special needs
- bring an understanding of the interdependence of a global society to an environment which is largely rural and homogeneous
- communicate to students and colleagues the joy of teaching and learning

The department devotes significant energy and resources to programs that prepare teachers for public and private schools. Graduate programs provide ongoing professional development opportunities for teachers and accommodate educators who work in settings other than elementary and secondary schools. The graduate programs encourage teachers to increase their expertise as instructional leaders in specialized areas or as generalists in education.

In addition to preservice and graduate education programs, the department also serves teachers and local school districts through cooperatively developed inservice education programs. The department supports appropriate change efforts and provides technical assistance to school districts, government agencies, and the private sector. Applied research in education by faculty members is encouraged and supported.

The department provides courses and experiences in language study, and serves as a resource for instructional improvement for the university community and offers courses which help students meet the demands of university study.

Department Admission Requirements

Admission to Teacher Education: Students preparing to teach must apply for admission to Teacher Education. Normally, this is accomplished during the sophomore year. The application form is made available through the Office of the Coordinator of Field Services and will be distributed to students taking TE 201 Foundations of Education.

Admission to Teacher Education is required before students may take any upper division courses in Teacher Education. Provisional admission is possible for students who have degrees and are working toward certification only.

General requirements for admission to Teacher Education for elementary and secondary candidates shall be determined and implemented by the Department of Teacher Education. These requirements include:
1. Filing of the Admission to Teacher Education form.
2. A minimum Grade Point Average of 2.5.
3. A minimum grade of C in TE 201 Foundations of Education, or its equivalent.
4. A Pass in TE 271 Introduction to Teaching I: Instructional Experience for Elementary Majors or a Pass in TE 172 Introduction to Secondary Teaching: Classroom Observation, or their equivalents.
5. A passing score on the “Test of General Knowledge” and on the “Test of Communication Skills,” both parts of the National Teacher Examination (NTE). Normally, students should make application to take this test during the second semester of their sophomore year. A passing score is the minimum score set by the Idaho State Board of Education for certification in Idaho. These tests are administered at specific times during the year. Students are responsible for making application to take the test through the BSU Counseling and Testing Center and are responsible for test fees. Students must have Educational Testing Service send the results of the NTE (National Teacher Exam) to the College of Education.
6. Students who exhibit problems in writing may be required to take a one-hour written English Qualification Examination (EQE) administered by the Department to determine specific problems. The EQE may be retaken upon remediation, but no more than two additional times. (This test is not the same as the English Competency Exam required by the English Department.)

Any deviations from the preceding policy must be approved by the Chairman of the department.

Admission to Student Teaching: An application for a specific student teaching assignment must be filed with the Office of the Coordinator of Field Services, Department of Teacher Education, by:
1. February 15th for students desiring to student teach in the fall.
2. October 1st for students desiring to student teach in the spring.

Note: Elementary Education majors make application for their first semester, only.

Application forms may be obtained from the Office of the Coordinator of Field Services.

Students must give six weeks notice prior to the beginning date for student teaching if they wish to withdraw their application for student teaching.

The Department of Teacher Education is responsible for making all assignments.

General requirements for admission to student teaching for elementary and secondary candidates include the following:

**Elementary Majors**
1. Admission to Teacher Education.
2. Recommendation by the faculty advisor.
3. A cumulative grade point average of 2.50.
4. Approval by the Teacher Education Academic Standards and Screening Committee.
5. Senior standing.
6. A minimum of "C" in all required courses.
7. Satisfactory completion of M 103 and M 104.

**Secondary Options**
1. Admission to Teacher Education.
2. Recommendation by the faculty advisor or the Department chairperson.
3. A minimum cumulative grade point average of 2.50.
4. A minimum grade point average of 2.50 in the major field, minor field if applicable, and the Education courses completed.
5. Approval by the Teacher Education Academic Standards and Screening Committee.
6. Minimum grade of "C" in TE 381 Secondary School Methods and in any special methods courses taken.
7. Major field.
8. Minor field.
9. Education courses.
10. Senior standing.
11. Sufficient credit hours in the assigned area(s).

Note: Deviations from the above requirements must be approved by the department chairperson.

**Special Information on Student Teaching**
1. Students who transfer to Boise State University must meet requirements for admission to Teacher Education and Student Teaching, and complete at least 6 semester hours at the University before being placed in Student Teaching.
2. Student teachers are expected to do responsible teaching, participate in co-curricular activities, maintain close contact with faculty and students in the public schools, and participate in seminars and conferences with their University supervisors.
3. Any student may be dismissed from a program leading to certification if he or she is found guilty of any offense which would be grounds for revocation or denial of an Idaho teaching certificate, including conviction in a court of law of an offense other than a minor traffic violation. Questions regarding this section should be addressed either to the Coordinator of Field Experiences (Education Building, Room 305) or the Dean of the College of Education (Education Building, Room 705).
4. Student Teaching can only be taken once (refer to PART III of this Catalog: ACADEMIC INFORMATION—Repeat of a Course.)

**Services for Students**

**Placement:** A Teacher Placement Service is provided by the Boise State University Career Planning and Placement Services Office. Check with the Director regarding eligibility to use this service and procedures for doing so.

**Reading Education Center:** The Center provides special services for University and public school students with specific problems in reading.

Faculty members, public school teachers and parents may seek assistance from the Reading Education Center for students who need diagnosis followed by planned instruction for improvement.

---

**Degree Requirements**

**ELEMENTARY EDUCATION MAJOR**

**Bachelor of Arts Degree**

Students preparing to teach in the elementary grades will major in Elementary Education and complete a program of studies approved by the Department of Teacher Education consisting of general and professional Education courses.

1. **General University Requirements for BA Degree**
   a. English Composition E 101, 102 ........................................... 3-6
   b. Area I Requirements ......................................................... 12
      Literature (to include E 271 or 272) .................................. 6
      Second Field Elective (Must be Art or Music. See Core requirements) ............................................. 3
      Third Field Elective (see Core requirements) ......................... 3
   c. Area II Requirements ......................................................... 18
      U. S. History (HY 151 or 152 suggested) ............................. 3
      Geography (GG 101 or GG 102) ........................................... 3
      Psychology (P 101) .............................................................. 3
      Oral Communication (CM 311 suggested) ................................ 3
      Area II Elective (Econ or Polit Sci) ....................................... 3
   d. Area III Requirements ......................................................... 12
      See University Core Requirements.

2. **Professional Education Requirements**
   a. Taught by other departments on campus
      Structure of Arithmetic for Teachers M 103 ........................... 4
      Geometry and Probability for Teachers M 104 .......................... 4
      Music Fundamentals MU 201 .................................................. 2
      Music Methods for the Elem School Teacher MU 371 ............... 2
      Elementary School Art Methods AR 321 ................................. 3
      Elementary School PE Methods PE 361 .................................. 3
      Educational Psychology P 220 ............................................... 3
      Child Psychology P 211 ....................................................... 3
   b. Taught by the Teacher Education Department
      Intro to Teaching I & II TE 171, 271 ...................................... 2
      Foundations of Education TE 201 .......................................... 3
      Intro to Microcomputer in Classroom TE 208 ............................ 3
      Education of the Exceptional Child TE 291 ............................ 3
      Teach Beginning Develop Reading K-3 TE 305 .......................... 5
      Teaching Develop & Content Reading 4-6 TE 306 ..................... 4
      Children's Literature TE 316 ................................................ 3
      Elem Curriculum & Methods I TE 451 .................................... 6
      Elem Curriculum & Methods II TE 452 ................................... 6
      Classroom Management Skills TE 457 ................................. 2
      Elem Student Teaching TE 471 .............................................. 2
      Elem Student Teaching TE 472 OR ............................ 3
      Student Teaching in Special Educ TE 473 ............................... 5

**Recommended Programs**

**ELEMENTARY EDUCATION MAJOR**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101, 102</td>
<td>6</td>
</tr>
<tr>
<td>Concepts of Biology (Area III) B 100</td>
<td>4</td>
</tr>
<tr>
<td>Physical Science (Area III) PS 100</td>
<td>4</td>
</tr>
<tr>
<td>Intro to Teaching I Class Observation TE 171</td>
<td>1</td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
</tr>
<tr>
<td>Area I Second Field: Art or Music</td>
<td>3</td>
</tr>
<tr>
<td>Area I Third Field Elective</td>
<td>3</td>
</tr>
<tr>
<td>Area II Social Science: U.S. History</td>
<td>3</td>
</tr>
<tr>
<td>Area II, Geography GG 101 or 102</td>
<td>3</td>
</tr>
<tr>
<td>Area II, Economics or Political Science</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>
### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Fundamentals MU 101</td>
<td>2</td>
</tr>
<tr>
<td>Foundations of Education TE 201</td>
<td>3</td>
</tr>
<tr>
<td>Intro to Teaching II: Inst Exp TE 271</td>
<td>1</td>
</tr>
<tr>
<td>Intro to Microcomputer in Classroom TE 208</td>
<td>4</td>
</tr>
<tr>
<td>Structure of Arithmetic for Teachers M 103</td>
<td>4</td>
</tr>
<tr>
<td>Geometry and Probability for Teachers M 104</td>
<td>4</td>
</tr>
<tr>
<td>Education of the Exceptional Child TE 291</td>
<td>3</td>
</tr>
<tr>
<td>Area I Second Field (E 271 or E 272)</td>
<td>3</td>
</tr>
<tr>
<td>Area I Additional Literature Course</td>
<td>3</td>
</tr>
<tr>
<td>Area II Social Science: SO 230 or AN 102</td>
<td>3</td>
</tr>
<tr>
<td>Area III Elective</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Beginning Developmental Reading K-3 TE 305</td>
<td>3</td>
</tr>
<tr>
<td>Teaching Developmental &amp; Content Reading 4-6 TE 306</td>
<td>3</td>
</tr>
<tr>
<td>Children's Literature TE 316</td>
<td>3</td>
</tr>
<tr>
<td>Elementary School Art Methods AR 321</td>
<td>3</td>
</tr>
<tr>
<td>Elementary School PE Methods PE 361</td>
<td>3</td>
</tr>
<tr>
<td>Music Methods for Elementary Teachers M 371</td>
<td>2</td>
</tr>
<tr>
<td>Educational Psychology P 220</td>
<td>3</td>
</tr>
<tr>
<td>Child Psychology P 211</td>
<td>3</td>
</tr>
<tr>
<td>Speech Comm for Teachers CM 311 suggested</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester:</td>
<td></td>
</tr>
<tr>
<td>Classroom Management Skills TE 457</td>
<td>2</td>
</tr>
<tr>
<td>Elem Curriculum &amp; Methods TE 451</td>
<td>6</td>
</tr>
<tr>
<td>Elementary Student Teaching TE 471</td>
<td>5</td>
</tr>
<tr>
<td>Second Semester:</td>
<td></td>
</tr>
<tr>
<td>Advanced Curriculum and Methods TE 452</td>
<td>6</td>
</tr>
<tr>
<td>Elementary Student Teaching TE 472</td>
<td>5</td>
</tr>
<tr>
<td>or Student Teaching: Special Education TE 473</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

#### LANGUAGE COMPONENT

**Spanish Section**
- Intermediate Spanish (Area I) S 201-4
- Intermediate Spanish (Area I) S 202-4
- Advanced Spanish S 303-3
- Advanced Spanish S 304-3
- **TOTAL 14**

**English As a Second Language (ESL) Section**
- Foundations of Teaching English as a 2nd Language TE 456-3
- Introduction to Language Study IL 305-3
- Applied Linguistics in Teaching English as 2nd Language IL 407-3
- **TOTAL 14**

#### ELECTIVES

Choose 2 from Area III...

**TOTAL 8**

(One must be Physical or Earth Science: GO 100 or PS 100 recommended.)

### PROFESSIONAL COMPONENT

#### General Education Section

- Elementary School Art Methods AR 321
- Music Meth for Elem School Teacher MU 371
- General Psychology (Area II) P 101
- Child Psychology P 211
- Elem School PE Methods PE 361
- **TOTAL 14**

#### Teacher Education Section

- Intro to Teach I: Class Observation TE 171
- Foundations of Education (Area II) TE 201
- Intro to Teach II: Inst Exp TE 271
- Teaching Beginning Developmental Reading K-3 TE 305
- Teaching Developmental & Content Reading 4-6 TE 306
- Children's Literature TE 316
- Elementary Curric & Methods TE 451
- Elementary Curric & Methods TE 452
- Teaching Read & Lang Arts in Biling Class TE 453
- Student Teaching in Elem Class TE 474, 475
- **TOTAL 38**

**Total Professional Component**

**52**

#### ELECTIVES

Because of the need to prepare future teachers to teach in both bilingual and non-bilingual classrooms, it is recommended that elective courses be chosen from the following list:

- AN 311 Peoples and Cultures of the World
- AN 315 Indian People of Idaho
- CM 351 Intercultural Communications
- E 213 Afro-American Literature
- E 219 North American Indian Folklore
- E 390 Folklore
- E 384 Literature of the American West
- HY 261 History of Minorities in the U.S.
- HY 356 Indians in American History
- HY 363 History of Mexico
- P 220 Educational Psychology
- PO 101 American National Government
- S 303 Spanish for the Native Speaker
- S 385 La Gente Mexican American en los Estados Unidos
- S 425 Mexican American Literature
- SO 297 Sociolog Process of Mexican American People
- SO 305 Racial and Cultural Minorities
- TE 208 Introduction to Microcomputers in Education
- TE 291 Education of the Exceptional Child
- TE 358 Corrective Reading

#### BILINGUAL TEACHER TRAINING TOTAL HOURS

**130**

### Recommended Program

#### ELEMENTARY BILINGUAL/MULTICULTURAL MAJOR

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective (Area I)</td>
<td>3</td>
</tr>
<tr>
<td>Intermediate Spanish S 201</td>
<td>4</td>
</tr>
<tr>
<td>Intermediate Spanish S 202</td>
<td>4</td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
</tr>
<tr>
<td>English Composition E 101</td>
<td>3</td>
</tr>
<tr>
<td>English Composition E 102</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

**MATH/SCIENCE COMPONENT**

- Structure of Arithmetic for Teachers M 103
- Geometry and Probability for Teachers M 104
- Concepts of Biology (Area III) B 100
- **TOTAL 14**

**MULTICULTURAL COMPONENT**

- Survey of American Lit (Area I) E 271 or 272
- Intro to Multi-Ethnic Studies (Area II) SO 230
- United States History (Area II) HY 151 or 152
- Cultural Anthropology (Area II) AN 102
- Mexican American Tradition & Culture in Elem Class TE 278
- **TOTAL 14**

**TOTAL 33**

**SUMMER SESSION**

- Intro to Teaching I: Class Observation TE 171
- Introduction to Language Study IL 305
- Applied Linguistics in Teaching English as 2nd Language IL 407
- **TOTAL 14**

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Geometry and Probability for Teachers M 104</td>
<td>4</td>
</tr>
<tr>
<td>Survey of American Literature E 271 or 272</td>
<td>3</td>
</tr>
<tr>
<td>Foundations of Education TE 201</td>
<td>4</td>
</tr>
<tr>
<td>Intro to Teaching II: Inst Exp TE 271</td>
<td>1</td>
</tr>
<tr>
<td>Advanced Spanish S 303, 304</td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>
College of Education

Elective (Area III) .......................................................... 4
United States History HY 151 or 152 ............................... 3
Found of Teach English as 2nd Lang TE 202 ......................... 2
Mex-Amer Tradition & Culture in Elem Class TE 278 .......... 2
TOTAL 31

JUNIOR YEAR

Elective ................................................................. 2
Elementary School Art Methods AR 321 ............................... 3
Introduction to Language Study LI 305 ............................... 3
Teaching Beginning Developmental Reading K-3 TE 305 .............. 3
Teaching Developmental & Content Reading 4-6 TE 306 ............. 3
Music Methods for Elem Teacher MU 371 ............................. 2
Elective (Area III) .......................................................... 4
Child Psychology P 211 ..................................................... 3
Childrens’ Literature TE 316 .............................................. 3
Identif & Diagnos of LEP Child TE 322 ............................... 2
Elem School Physical Education PE 361 ............................... 3
Intro to Multi-Ethnic Studies SO 230 ................................. 3
TOTAL 34

SENIOR YEAR

Elective ................................................................. 3
Applied Linguistics in Teach ESL LI 407 ............................... 3
Methods of Teaching ESL TE 456 ........................................ 3
Elementary Curriculum & Methods TE 451 ............................ 6
Student Teaching in Biling Elem Class TE 474-475 .................. 10
Elementary Curriculum & Methods TE 452 ............................ 6
Teaching Read & Lang Arts in Biling Class TE 453 .................. 2
TOTAL 33

Total Hours 130

Subject Area Endorsements

Students majoring in Elementary Education are strongly advised to select a Subject Area Endorsement, which will strengthen them as teachers and will generally improve their employability. Students may select from the list immediately below and become qualified to teach in the selected area in junior high school, including ninth grade.

Subject Area Endorsements listed immediately below are quoted from the Idaho Certification Standards for Professional Personnel, revised July 1, 1988, and are listed under “Subject Area Endorsements for Secondary Teachers,” from page 22 through page 26. Only those available at BSU are included, and a minimum of twenty semester credit hours is required for each.

NOTE: Suggested lists of courses for each Subject Area Endorsement are available from the Office of the Coordinator of Field Services.

AMERICAN GOVERNMENT— Not less than six semester credit hours in American Government, six semester credit hours in American History and three semester credit hours in comparative government. The remaining work is to be history or political science.

ARTS AND CRAFTS— Credits to include work in four of the following areas: woodworking, drafting, ceramics, leather work, plastics, the graphic arts and art metal.

CONSUMER ECONOMICS— Have an endorsement in Social Studies, Home Economics or Business Education and have not less than six semester credits in economics. One course shall be designed for the average consumer.

DRAMA— Not less than sixteen credit hours in drama. The remainder, if any, in speech, OR hold an English endorsement with at least six semester credit hours in drama.

ENGLISH— Credits to include: at least six semester credits of composition, including course credit in advanced composition, three semester credits of English Literature and a course in writing methods for teachers. The remainder must be English credit courses such as linguistics, grammar, modern literature, classical literature, creative writing, advanced writing, mythology or folklore. In compliance with the above, at least 20 semester credit hours must be taken in the English Department for an English minor endorsement.

FOREIGN LANGUAGES— Credits must be in the language in which the endorsement is sought.

HEALTH EDUCATION— Credits distributed to include course work in health instructional areas, science applicable to health education, organization and administration of health education and methodology.

HISTORY— Not less than nine semester credit hours in U.S. History and not less than three semester credit hours in American government. The remaining work is to be in history and political science.

JOURNALISM— Not less than sixteen semester credit hours in journalism. The remainder, if any, is to be in English, OR hold an English endorsement with at least six semester credit hours in journalism.

MATHEMATICS— Two levels of mathematics endorsement:

Basic Mathematics (limited to teaching up to and through the level of algebra I): Credits in mathematics to include college credits in algebra, geometry and trigonometry.

Standard Mathematics (may teach any math course in grades 6-12): Credits in mathematics to include college credit in calculus and analytical geometry. The remainder may be selected from courses such as abstract algebra or linear algebra, probability and/or statistics, and geometry.

MUSIC— Credits to include course work in theory and harmony, applied music (voice, piano, organ, band and orchestra instruments), history and appreciation, conducting and music methods and materials.

PHYSICAL EDUCATION— Credits distributed to include course work in movement skills, science applicable to physical education, organization and administration of physical education, health education, physical education methodology and evaluation.

BIOLOGICAL SCIENCE— Credits distributed in the areas of botany and zoology, including at least six semester credit hours in each. Some work in physiology is recommended.

PHYSICAL SCIENCE— At least eight semester credit hours in chemistry and eight credit hours in physics.

NATURAL SCIENCE— Credits to include not less than: six semester credit hours in biological science, six semester credit hours in physical science, and six semester credit hours in earth science. The remainder shall be selected from any of the natural science areas.

READING— Twenty semester credit hours to include a minimum of 15 semester credit hours with course work in each of the following areas: foundations of/or developmental reading, content area reading, corrective/diagnostic/remedial reading, psycholinguistics/language development and reading, literature for children or adolescents. The remainder may be taken from related areas.

SOCIAL STUDIES— Credits to include not less than six semester credit hours in U.S. History and not less than three semester credit hours in American Government. In addition, work in at least four of the following fields to be represented: world history, geography, sociology, economics, anthropology and political science.

SPEECH— Not less than sixteen semester credit hours in speech. The remainder, if any, in drama OR hold an English endorsement with at least six semester credit hours in speech.

SPEECH-DRAmA— Credits spread over both fields with not less than six semester credit hours in each.

In addition to the above, students may select from the following:

SPECIAL EDUCATION— Elementary Emphasis: Students desiring to teach the handicapped may enroll in one of the following programs and upon successful completion may be recommended for Idaho certification. This program has been designed so students may pursue a dual emphasis leading to certification as a special educator and also in elementary or secondary education. In order to avoid conflicts, students should begin planning early in their program with their advisors and if necessary a member of the special education faculty. Several courses in the required program are applicable to both the special education and the elementary emphasis. All students seeking certification in special education must complete the initial program for the Generalist endorsement prior to seeking the Severely Handicapped endorsement. A minimum of a 30 credit program in special education is required to meet the standards for the Idaho Exceptional Child certificate.

GENERALIST, Educationally Handicapped: Upon completion of this program a student will be recommended for certification as a teacher for the mildly and moderately handicapped. Emphasis will be upon the training of the resource teacher working with the learning disabled, mentally retarded, and emotionally handicapped.

REQUIRED COURSES (30 Credit Hours)

Education of the Exceptional Child TE 291 .......................... 3
Technology in Special Education TE 340 .......................... 2
Severely Handicapped, Mentally Retarded: A student desiring to certify in the area of the severely handicapped shall in addition to completion of the above requirements, complete a minimum of the following courses.

- Teaching the Severely Handicapped TE 423: 3
- Student Teaching for Severely Handicapped TE 476: 5

NOTE: In order for a student to complete all of the course work it is possible that an extra semester may be required. There are many electives available to strengthen the basic requirements. The student should seek advisement from the special education faculty early to establish a program.

Early Childhood Emphasis

Required 16 credits:
- Child Behavior & Guidance in Early Childhood TE 361: 3
- Curriculum in Early Childhood TE 362: 3
- Internship in Early Childhood TE 293-493: 2
- Creat Materials in Early Childhood TE 465: 3
- Elementary Student Teaching TE 471: 5

Electives 5 credits:
- Infant Education TE 463-463G: 3
- Diagnosis of the Handicapped TE 430: 3
- Children's Theatre TA 287: 3
- Human Growth and Motor Development PE 205: 2

NOTE: This emphasis requires 21 credit hours, 5 of which (TE 361 and 471) apply to Elementary Education major.

Students will be recommended for the Kindergarten endorsement on their elementary teaching certificate if they complete the Early Childhood Area of Emphasis.

Total: 30

Certification Requirements for Elementary Education

Students from Boise State University will be recommended for an elementary teaching certificate to the State Department of Education after meeting the following requirements:

1. Completion of the Bachelor of Arts degree in Elementary Education or Bachelor of Arts in Bilingual Multicultural Education.
2. A satisfactory experience in student teaching as determined by the Department of Teacher Education.
3. A recommendation by the Dean of the College of Education indicating that the candidate has the approval of the Department of Teacher Education. Such approval is to be based primarily on evidence of knowledge of subject matter taught, demonstrated teaching techniques, and ability and aptitude to work with students and adults.
4. Prior to applying for any teaching certificate in the state of Idaho, each candidate must have passing scores on the National Teacher Examination (NTE) in "General Knowledge," "Communication Skills," and "Professional Knowledge." Passing scores are determined by the Idaho State Board of Education. Students are responsible for making application to take the NTE and for fees. Students must have Educational Testing Service send the results of the NTE (National Teacher Exam) to the College of Education.
5. Students with previously earned degrees may develop individual programs approved by the Department of Teacher Education. The programs may include graduate courses applicable to a master's degree. For more information the candidate should contact the Coordinator of Field Services or the Associate Dean.

These basic requirements are translated into the following required Boise State University Courses:

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Single</th>
<th>Dual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Second Teach: Classroom Obs TE 172</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Foundations of Education TE 201</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Educate Exceptional Students TE 333</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>*Educational Technology TE 356</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Reading in Content Subjects TE 407</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Educational Psychology P 220</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Secondary School Methods TE 381</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Special Methods required by Major Department</td>
<td>(varies by major)</td>
<td></td>
</tr>
<tr>
<td>Junior High Teach Dual Option TE 482</td>
<td>-</td>
<td>8</td>
</tr>
<tr>
<td>Senior High Teach Dual Option TE 483</td>
<td>-</td>
<td>8</td>
</tr>
<tr>
<td>Junior High Teach Single Option TE 484</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td>Senior High Teach Single Option TE 485</td>
<td>-</td>
<td>32</td>
</tr>
<tr>
<td>Total (not including special methods)</td>
<td>26</td>
<td>32</td>
</tr>
</tbody>
</table>

*These courses required only if content is not included in requirements of majors.

Secondary Student Teaching

An Idaho Standard Secondary Certificate allows the holder to teach in grades 6 through 12. Both the Single and Dual alternatives lead to the same certificate.

Students choosing the Single alternative may select either junior or senior high school for their student teaching. Normally, the request can be granted and the student teacher will usually teach only in her/his major fields. Students selecting the Dual Option alternative will be placed in a junior high school for approximately 8 weeks and a senior high school for the remaining weeks. Normally, students will teach in their major fields in one experience and their minor fields in the other.

Students may complete the student teaching experience in either the spring or fall semester and should work closely with their advisors and members of the secondary faculty in the Department of Teacher Education.

Student teaching is scheduled through the Office of the Coordinator of Field Services in the Department of Teacher Education. See Admission to Student Teaching, page 115.
To be recommended for certification from Boise State University, the student should complete the Secondary Option degree program within a selected department. Such completion represents a major certification endorsement (at least 20 credit hours) in a teaching field. It is highly recommended that the student complete a minor certification endorsement of at least 20 credit hours in another field as an additional minor certification endorsement enhances the opportunity for employment. Students who do not have an endorsement in a minor area must have at least 45 credit hours in their major.

NOTE: CHECK WITH OFFICE OF FIELD SERVICES FOR CURRENT IDAHO REQUIREMENTS.

The major certification endorsements (Secondary Option degree programs) are described in the Catalog under each department. A listing of the Secondary Options follows.

- Anthropology-Social Science, Secondary Education Option
- History-Social Science, Secondary Education Option
- Art
- Mathematics
- Biology
- Music
- Chemistry
- Physical Education
- Earth Science
- Physics
- Economics-Social Science, Secondary Education Option
- Political Science-Social Science, Secondary Education Option
- English
- Sociology-Social Science, Secondary Education Option
- History
- Theatre Arts

A listing of the Boise State University minor certification endorsements is included for the convenience of students.

NOTE: Check with the Office of Field Services for the most current information regarding requirements for minor certification endorsements recognized by the State of Idaho. Minor certification endorsements may also be recognized in areas other than those included in this listing.

### Minor Certification Endorsements

**NOTE:** Minor certification endorsements may be recognized by the State of Idaho in areas other than those included in this listing. Check with the Office of Field Services for further information.

#### ANTHROPOLOGY

**Social Science Major**
- Physical Anthropology AN 101 ........................................... 3
- Cultural Anthropology AN 102 ......................................... 3
- Peoples and Cultures of the World AN 311 ......................... 3
- Additional upper division Anthropology .............................. 12
- **TOTAL** ........................................................................ 21

**Non-Social Science Major**
- Physical Anthropology AN 101 ........................................... 3
- Cultural Anthropology AN 102 ......................................... 3
- Introduction to Archaeology AN 103 ................................. 3
- Peoples and Cultures of the World AN 311 ......................... 3
- Additional upper division Anthropology .............................. 9
- **TOTAL** ........................................................................ 21

- Introduction to Art AR 103 ............................................ 1
- Basic Design AR 105, 106 .............................................. 6
- Drawing AR 111, 112 ...................................................... 2
- Painting AR 113, 114 ...................................................... 2
- 2 hrs from Sculpt, Metals, Ceramics, Methods in Craft ........ 2
- Electives from 100-400 Regular Courses ............................ 7
- Suggested Electives: Art History, Lettering, Photography, Printmaking, Weaving and those listed above.
- **TOTAL** ........................................................................ 22

#### BIOLOGY

- General Botany BT 130 ................................................... 4
- General Zoology Z 130 .................................................... 4
- Cell Biology B 301 .......................................................... 3
- Genetics & Lab B 343, 344 .............................................. 4
- Elective course in Botany ................................................ 4
- Elective course in Zoology ............................................... 4
- **TOTAL** ........................................................................ 23-24

#### CHEMISTRY

- 100 level General Chemistry Courses .............................. 8-10
- Organic Chemistry Courses .............................................. 5
- **TOTAL** ........................................................................ 7

#### COMMUNICATION (Speech)

- Fundamentals of Speech CM 111 ...................................... 3
- Reasoned Discourse CM 112 ............................................ 3
- Interpersonal Communication CM 221 .............................. 3
- Speech-Communication for Teachers CM 311 .................... 3
- **TOTAL** ........................................................................ 20-22

#### ECONOMICS

- Principles of Macroeconomics EC 201 .............................. 3
- Principles of Microeconomics EC 202 .............................. 3
- Intermediate Microeconomics EC 303 .............................. 3
- Intermediate Macroeconomics EC 305 .............................. 3
- Upper Division Economics Courses ................................. 9
- **TOTAL** ........................................................................ 21

#### ENGLISH

- Advanced Composition E 201 ......................................... 3
- Linguistics ...................................................................... 3
- Survey of American Literature E 271 or 272 ..................... 3
- Teaching English Composition E 301 OR ......................... 3
- Methods of Teaching Secondary School English E 381 ....... 3
- Upper Division Literature ............................................... 6
- Successful completion of secondary writing proficiency ...... 1
- **TOTAL** ........................................................................ 24

#### FOREIGN LANGUAGE

- French
  - Required 19 Credits:
    - Elementary French F 101, 102 .................................... 8
    - Intermediate French F 201, 202 .................................. 8
    - Teaching Methodology in For Lang FL 412 ................. 3
    - Electives 3 credits:
      - Advanced French F 303 ........................................... 3
      - Intermediate French F 304 .................................... 3
      - La Civilisation Francophone Moderne F 377 ............. 3
      - **TOTAL** ................................................................ 22

- German
  - Required 19 credits:
    - Elementary German G 101, 102 .................................. 8
    - Intermediate German G 201, 202 ................................ 8
    - Teaching Methodology in For Lang FL 412 ................. 3
    - Electives 3 credits:
      - Advanced German G 303 ........................................ 3
      - Intermediate German G 304 ................................... 3
      - German Culture and Civilization G 377 .................... 3
      - **TOTAL** ................................................................ 22

- Spanish
  - Required 19 credits:
    - Elementary Spanish S 101, 102 .................................. 8
    - Intermediate Spanish S 201, 202 ............................... 8
Teaching Methodology in For Lang FL 412 ........................................... 3
Electives 3 credits:
Advanced Spanish S 303 ........................................... 3
Advanced Spanish S 304 ........................................... 3
Cultura y Civilizacion Hispanoamericano S 377 .................. 3
TOTAL ........................................................................ 22

**GEOGRAPHY**

Introduction to Geography GG 101 ........................................... 3
Cultural Geography GG 102 ........................................... 3
Upper Division Geography (minimum) .................................. 3
Additional Geography Courses (minimum) ......................... 8
TOTAL ........................................................................ 20

**HEALTH EDUCATION FOR NON-PHYSICAL EDUCATION MAJORS**

Health Education PE 100 ........................................... 3
Fitness Foundations PE 114 ........................................... 1
Advanced First Aid PE 122 ........................................... 3
First Aid Instr Training Course PE 123 ......................... 1
Health Prin: Meth & Adm PE 415 ........................................... 3
Anatomy and Physiology Z 107 ........................................... 4
Nutrition H 207 ........................................... 3
Electives: Select two (6)
Drugs, Use and Abuse H 109 ........................................... 3
Human Sexuality P 261 ........................................... 3
Consumer Health PE 405 ........................................... 2
TOTAL ........................................................................ 24

**HEALTH EDUCATION MINOR FOR PHYSICAL EDUCATION MAJORS**

First Aid Instr Training Course PE 123 ......................... 1
Health Prin: Meth & Adm PE 415 ........................................... 3
Nutrition H 207 ........................................... 3
Electives: Select two (6)
Drugs, Use and Abuse H 109 ........................................... 3
Human Sexuality P 261 ........................................... 3
Consumer Health PE 405 ........................................... 2
TOTAL ........................................................................ 13

**HISTORY**

Lower Division ...................................................... 12
U.S. Hist HY 151, 152 or Prob in U.S. Hist HY 251, 252 ........ 6
West Civ HY 101, 102 or Prob in West Civ HY 201, 202 ....... 3
American Government .................................................. 3
Upper Division Courses to include 3 credit hours of
U.S. History with remaining 9 credit hours selected from
2 or 3 major History areas U.S., European, Third World .......... 12
**TOTAL** .................................................................... 24

**MATHEMATICS**

Programming Languages CS 122 or CS 126 .................... 2-3
Calculus M 204 or M 211 ........................................... 5
Calculus M 205 or M 212 ........................................... 4-5
At least 1 of the following: ........................................... 3-4
Linear Algebra M 301 ........................................... 4
Introduction to Abstract Algebra M 302 ......................... 3
Foundations of Geometry M 311 ........................................... 3
Fundamentals of Statistics M 361 ........................................... 3
Electives to complete 20 hours .......................................... 3-6
**TOTAL** .................................................................... 20

**MUSIC**

Instrumental Track
Materials of Music MU 119, 120 ........................................... 8
Ear Training MU 121, 122 ........................................... 2
Introduction to Music MU 133 ........................................... 3
Basic Conducting MU 261 ........................................... 1
Orientation to Music Education MU 271 ......................... 1
1 year Applied Music ........................................... 4
1 year Major Performance Ensemble .................................. 2
String Instrument Methods & Tech MU 257 ......................... 2
Woodwind Methods & Tech MU 266 .................................. 2
Instrumental Conducting MU 366 ........................................... 1
Percussion Methods & Tech MU 368 ........................................... 2
Brass Methods & Tech MU 369 ........................................... 2
Band & Orchestra Methods & Materials MU 385 ................. 2
**TOTAL** .................................................................... 32

Choral Track
Materials of Music MU 119, 120 ........................................... 8
Ear Training MU 121, 122 ........................................... 2

---

**College of Education**

Vocal Techniques MU 256 ........................................... 3
Basic Conducting MU 261 ........................................... 1
Orientation to Music Education MU 271 ......................... 1
1 year Applied Music (Major Instrument) ......................... 4
1 year Performance Ensemble ........................................... 2
1 year Applied Music (Voice or Piano) ......................... 4
Choral Conducting MU 365 ........................................... 1
Choral Methods and Materials MU 385 .................................. 2
**TOTAL** .................................................................... 30

**NATURAL SCIENCE**

Complete the basic sequence of courses in

BT 130 and Z 130 ........................................... 9
Chemistry C 107, 108, 109, 110 ........................................... 9
Geology GO 101, 103 ........................................... 8
Physics PH 101, 102 ........................................... 8
**TOTAL** .................................................................... 34

**PHYSICAL EDUCATION**

Athletic Training Minor for Physical Education Majors

Essed of Chemistry & Labs C 107-110 ........................................... 9
Medical Terminology H 101 ........................................... 3
Nutrition H 207 ........................................... 3
Training Room Procedures PE 120 ........................................... 1
Intro Athletic Injuries PE 236 ........................................... 3
Internship-Athl Trgn PE 293 ........................................... 3
Conditioning Procedures PE 313 ........................................... 2
Psych/Soc Aspects of Activity PE 401 ........................................... 3
Advanced Athletic Training PE 402 ........................................... 3
Training Room Modalities PE 403 ........................................... 2
Injury Evaluation PE 422 ........................................... 2
**TOTAL** .................................................................... 43

**Coaching Endorsements for Physical Education Majors**

Anatomy & Physiology Z 107 or Z 111, 112 .......... 4-8
Advanced First Aid PE 122 or equiv. ........................................... 3
Conditioning Procedures PE 313 ........................................... 2
Psych/Soc Aspects of Activity PE 401 ........................................... 3
Coaching, Nature of Profession PE 430 ........................................... 2
Internship-Coaching Youth Sports PE 293 ........................................... 1
Internship-Interscholastic Athletics PE 493 ........................................... 3
Complete two Coaching Methods courses ........................................... 4
Coaching Baseball PE 250 ........................................... 2
Coaching Basketball PE 251 ........................................... 2
Coaching Football PE 252 ........................................... 2
Coaching Women's Gymnastics PE 256 ........................................... 2
Coaching Tennis PE 257 ........................................... 2
Coaching Track & Field PE 258 ........................................... 2
Coaching Volleyball PE 259 ........................................... 2
Coaching Wrestling PE 260 ........................................... 2
Complete two skills courses that complement the desired
Coaching Methods courses ........................................... 2
Tumbling PE 115 ........................................... 1
Softball FA 182 ........................................... 1
Track & Field PE 212 ........................................... 1
Wrestling PE 217 ........................................... 1
**TOTAL** .................................................................... 25-29

---

**K-12 Endorsement for Physical Education Majors**

Child Psychology P 211 ........................................... 3
Dance for Children PE 357 ........................................... 2
Elem School PE Methods PE 361 ........................................... 2
College of Education

Motor Programming for Special Programs PE 369 .......................... 3
Elementary Student Teaching TE 477 ........................................ 3-6
TOTAL .......................................................... 13-16

K-6 Endorsement for Non-Physical Education Majors
Rhythmic Skills PE 113 .......................................................... 1
Fitness Foundations PE 114 ...................................................... 1
Tumbling Skills PE 115 ............................................................ 1
Sport Skills PE 117 ................................................................. 1
Health Education PE 100 ......................................................... 3
Found of Physical Education PE 101 ........................................... 3
Internship in Elementary Physical Education PE 293 ................... 1
Human Growth & Motor Learning PE 306 .................................... 3
Dance for Children PE 357 ......................................................... 2
Elem Sch PE Methods PE 361 ................................................... 3
Motor Program for Special Populations PE 369 ............................ 2
Elementary Student Teaching TE 477 ....................................... 3-6
Anatomy & Physiology Z 107 or Z 111, 112 ............................... 4-8
TOTAL .......................................................... 28-31

PHYSICS (Physical Science)
General Physics PH 101, 102 ....................................................... 6
Introduction to Descriptive Astronomy PH 105 ......................... 4
Technical Drawing EN 101 .......................................................... 2
Engineering Graphics EN 108 .................................................... 4
Computer Programming EN 104 or EN 107 or CS 122 ............... 2-3
Math Skill Equivalent to M 111 .................................................... 5
TOTAL .......................................................... 21-22

POLITICAL SCIENCE
American National Government PO 101 ...................................... 3
Contemporary Political Ideologies PO 141 .................................. 3
Comparative European Governments & Politics PO 229 ............ 3
International Relations PO 231 .................................................. 3
American History HY 151, 152/251 ......................................... 8
Political Science Electives (Upper Division) ............................. 3
TOTAL .......................................................... 21

PSYCHOLOGY
General Psychology P 101 .......................................................... 3
Abnormal Psychology P 301 ....................................................... 3
Statistical Methods P 305 .......................................................... 3
Personality P 351 ................................................................. 3
Psychology Upper Division Electives ......................................... 5
TOTAL .......................................................... 21

SOCIOLOGY
Introduction to Sociology SO 101 ............................................. 3
Social Statistics SO 310 ............................................................ 3
Social Research SO 311 ............................................................ 3
History of Sociology SO 401 ...................................................... 3
Current Sociological Perspectives SO 402 ................................. 3
Sociology Electives ............................................................... 9
TOTAL .......................................................... 21

THEATRE ARTS
Technical Theatre TA 117, 118 .................................................... 8
Acting TA 215 ................................................................. 3
Major Production Participation TA 331 ...................................... 1
World Drama TA 341, 342 .......................................................... 3
Directing TA 491 ................................................................. 3
Theatre History TA 421 or 422 .................................................... 3
TOTAL .......................................................... 21

Course Offerings
See page 20 for definition of course numbering system

FL FOREIGN LANGUAGE
NOTE: Most Foreign Language courses require a lab fee.

Upper Division
FL 413 TEACHING METHODOLOGY IN FOREIGN LANGUAGE (3-0-3). Discussion of problems and trends in language learning applied to practical activities, culture presentations, testing, teaching aids and resource materials. Practicum—visitations, developing teaching plans, presenting teaching units. PREREQ: Nine or more Upper Division credits in one language or PERM/DEPT. Admission to Teacher Education.

FR FRENCH
NOTE: Most French courses require a lab fee.

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 read 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-V-A). Self-paced, 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)AREA B. These courses provide the environment to acquire competence to communicate in French. Students read selections from French literature and civilization. Students discuss and write in French. Format of the course: classroom instruction, practice in conversation and in A-V laboratories. PREREQ: F 102 or PERM/DEPT.

Upper Division
F 303 ADVANCED FRENCH COMPOSITION AND CONVERSATION (3-0-3). This course, conducted in French, provides the matrix for enlarging one's French vocabulary and structure, and for speaking and writing French fluently. There will be discussions of the practical realities of the French speaking world concentrating on the common and high frequency expressions of the language. Essays based on class discussion will be written regularly. PREREQ: F 202 or PERM/DEPT. Alternate years.
F 304 ADVANCED FRENCH COMPOSITION AND CONVERSATION (3-0-3). This course has similar objectives as F 303. Discussions and essays will concentrate on the civilization, culture and aesthetics in contemporary France. Discussions will be based on current French writings, style imitations and personal essays. PREREQ: F 202 or PERM/DEPT.
F 328 LECTURES AVANCEES DE LA POESIE ET DE LA PROSE FRANCAISES (3-0-3). Selected unabridged works of great French authors, all genres, between 1715 to 1939, with emphasis on prose. May be repeated once for credit. PREREQ: F 202 or equivalent. Alternate years.
F 359 LES GRANDES OUVRES CONTEMPORAINES (3-0-3). Representative unabridged selections of the works of major authors and thinkers of France and the French speaking world since the beginning of the Second World War; for example, Ayme, Beckett, Sartre, Camus, Levy-Strauss and Chardin among others. PREREQ: F 202 or equivalent. Alternate years.
F 376 LA CIVILISATION FRANCAISE HISTORIQUE (3-0-3). Studies in the development and expansion of French culture from pre-history to the French Revolution; history, politics, art, geography, literature, music and science; assessment of the contribution of French Civilization to the Western World. PREREQ: F 202 or PERM/DEPT. Alternate years.
F 377 LA CIVILISATION FRANCOPHONE MODERNE (3-0-3). Studies in modern French civilization since the end of the “ancient regime,” the French Revolution; history, politics, art, geography, literature, music and science; assessment of France’s contribution to the modern democracies. PREREQ: F 202 or PERM/DEPT. Alternate years.

G GERMAN
NOTE: Most German courses require a lab fee.

Lower Division
G 101, 102 ELEMENTARY GERMAN (4-1-4). Listening, speaking, reading and writing skills in cultural framework. May not enroll in G 101 for credit with more than one year of high school German or equivalent with PERM/INST. Students in G 102, lacking adequate preparation may drop back to G 101.
G 101-P, 102-P PROGRAMMED ELEMENTARY GERMAN (4-1-4). Self-paced course; programmed texts, tapes, readings, informal meetings with instructor. Performance tests at student’s pace. Work in language lab or access to cassette player needed. May not enroll in G 101-P with more than one year high school German or equivalent except with PERM/INST. Students lacking adequate preparation may do so.
G 201, 202 INTERMEDIATE GERMAN (4-1-4)(AREA B). A continuation of G 101, 102. The course emphasizes listening, speaking, reading and writing. Focus on vocabulary building, grammar review, cultural and literary reading selections and writing assignments. PREREQ: G 102 or equivalent as determined by placement examination and consultation.

Upper Division
G 303 ADVANCED GERMAN CONVERSATION AND COMPOSITION (3-0-3). Practice towards idiomatic fluency. Readings from newspapers, magazines, essays, discussion of slides, tapes, and films. Frequent written required. PREREQ: G 202 or equivalent as determined by placement exam and consultation. Alternate years.
G 304 ADVANCED GERMAN CONVERSATION AND COMPOSITION (3-0-3). Similar goals and format to G 303. More extended writing assignments. PREREQ: G 202 or equivalent as determined by placement exam and consultation. Alternate years.

G 331 INTRODUCTION TO GERMAN LITERATURE AND LITERARY STUDIES (3-0-3)(F). Major writers and periods provide samples from various genres and an overview of German literary development. The course is intended to provide insights into literary craftsmanship. PREREQ: G 202 or equivalent as determined by placement examination and consultation.

G 376 GERMAN CULTURE AND CIVILIZATION (3-0-3). German civilization from prehistoric times through the 19th Century. Special attention paid to contributions of Germany, Austria, and Switzerland to western civilization. Classes conducted in German. PREREQ: G 202 or equivalent as determined by placement examination and consultation. Alternate years.

G 377 GERMAN CULTURE AND CIVILIZATION (3-0-3). German civilization from 1800 to present. Special attention paid to contributions of Germany, Austria and Switzerland to western civilization. Classes conducted in German. PREREQ: G 202 or equivalent as determined by placement examination and consultation. Alternate years.

G 410 APPLIED LINGUISTICS FOR THE GERMAN LANGUAGE TEACHER (2-0-2). Functional application of linguistic theory to foreign language teaching and learning practices. Analysis of ways in which traditional, descriptive, and transformational models deal with phonology, morphology and syntax. PREREQ: LI 305 and minimum of six credits upper division German and/or inservice teaching and some major in the major as determined by placement test and interview. Alternate years.

G 415 AUFKLUERUNG UND DER STURM UND DRANC (18TH CENTURY) (3-0-3). Essays, plays, fictional prose and poetry marking the intellectual ferment of the Enlightenment and the “Storm and Stress”. Selections from Gottsched, Haller, Klopstock, Lichtenberg, Kant, Herder, Lessing, J.M.R. Lenz, the early Goethe and Schiller, etc. PREREQ: G 331 or PERM/INST. Alternate years.

G 425 DER TRAUM DER ANTIKE UND DIE TRAUMWELT (1700-1830) (3-0-3). 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: G 331 or PERM/INST. Alternate years.

G 435 REAKTION: LIBERAL UNO KONSERVATIV (19TH CENTURY) (3-0-3). Selections from a wide cross-section of 19th century German Literature: Buchner, the “Young Germans”; Grillparzer, Hebbel, Goethe, Keller, Stifter, Storm, C.F. Meyer and others. PREREQ: G 331 or PERM/INST. Alternate years.

G 445 DIE MODERNE ZEIT BEGRENNT (1890-1945) (3-0-3). “ism’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: G 331 or PERM/INST. Alternate years.

G 455 “ALD DER KRIEG ZU ENDE WAR…” (1945-present) (3-0-3). 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, East German, Swiss and West German writers. PREREQ: G 331 or PERM/INST. Alternate years.

G 465 RITTER UND BAUER, GOTT UND MENSCH (1150-1720) (3-0-3). Survey: Middle Ages, Renaissance, Reformation, Baroque. Selections from heroic and courtly epics. Minnesingers, moral tales and romances, religious pamphleteering, chapbooks, Fastnacht plays; Angelus Silesius, Gryphius, Crimmelshausen, etc. PREREQ: G 331 or PERM/INST. Alternate years.

G 475 DIE DEUTSCHSPRACHIGE WELT VON HEUTE (3-0-3). 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). Required of all German majors in the Liberal Arts Option. 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.

SEE HISTORY DEPARTMENT COURSE OFFERINGS FOR GREEK AND LATIN COURSE DESCRIPTIONS.

LS LIBRARY SCIENCE COURSES

Lower Division

LS 102 LIBRARY SKILLS I (0-2-1)(F). An independent self-paced course in library skills including resources common to academic libraries in general and to facilities in the Boise State University Library, in particular. Designed for incoming students who are not familiar with an academic library and for returning students who have had difficulty using the college library in the past. (Graded Pass/Fail)

LS 103 LIBRARY SKILLS II (0-2-1). Builds on LS 102 Library Skills I and introduces additional and more sophisticated library materials and techniques. PREREQ: Prior or concurrent enrollment in LS 102.

LS 201 INTRODUCTION TO THE USE OF LIBRARIES AND THE TEACHING OF LIBRARY SKILLS (2-2-3)(On demand). Teaches efficient use of library materials, catalogs, indexes, and reference sources in various subject fields and prepares teachers and librarians to teach library skills to elementary and secondary school students.

Upper Division

LS 301 LIBRARY ORGANIZATION AND ADMINISTRATION (3-0-3)(On demand). An introduction to the development, organization and management of all types of libraries with emphasis upon the school library and its place in the instructional program. PREREQ: LS 201 or PERM/INST.

LS 311 REFERENCE AND BIBLIOGRAPHY (3-0-3)(On demand). Introduction to evaluation and use of basic reference sources, principles, techniques and issues of reference service. Includes coverage of standard reference books, indexes, abstracts, and bibliographies found in school or small public libraries. PREREQ: LS 201 or PERM/INST.

LS 321 BASIC BOOK SELECTION (3-0-3)(On demand). Principles and techniques for evaluating and selecting library materials; introduction to reviewing media and to basic tools for selecting and acquiring all types of books and non-book materials. Includes discussions of discarding and weeding, and materials for slow and gifted readers. PREREQ: LS 201 or PERM/INST.

LS 331 CATALOGING AND CLASSIFICATION (3-0-3)(On demand). Theory and principles of classification and cataloging of book materials, practice using Dewey Decimal Classification, preparing catalog cards, assigning subject headings and library fill. Bibliographies, bibliographies and cooperative cataloging are discussed. PREREQ: LS 201 or PERM/INST.

R RUSSIAN

NOTE: Most Russian courses require a lab fee.

Lower Division

R 101, 102 ELEMENTARY RUSSIAN (4-1-4). This course is designed to develop the beginning student's abilities in understanding, speaking, reading, and writing Russian. Classes meet four times a week, and there is one hour per week of required laboratory practice. The class is conducted in Russian. Alternate years. PREREQ: Senior standing or PERM/INST.

S SPANISH

NOTE: Most Spanish courses require a lab fee.

Lower Division

S 101, 102 ELEMENTARY SPANISH (4-1-4). Develops abilities in understanding, speaking, reading and writing. Offers a basic study of grammar, structure 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 the 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 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). 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 change to 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). 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 contemporary trends, current events, everyday life and other themes of immediate concern to the student. PREREQ: S 202 or equivalent as determined by placement examination and consultation. Alternate years.

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

S 311 INTRODUCTION TO HISPANIC LITERATURES AND LITERARY ANALYSIS (3-0-3)(F). A theoretical and practical study of literary analysis, the different genres, movements and periods, as well as the various approaches to literary explication, interpretation and criticism, using models of the major works of Hispanic literature. PREREQ: S 202 or equivalent as determined by placement examination and consultation.

S 377 CULTURA Y CIVILIZACION HISPANOAMERICANA (3-0-3). Spanish-American civilization from ancient origins to contemporary times. An intensive analysis of the historical, political, economic, social and cultural developments of the Hispanic-American nations, and their contributions to the western world. Discussions in Spanish; some readings in English. Papers required. PREREQ: S 202 or equivalent as determined by placement examination and consultation. Alternate years.
S 385 LA GENTE MEXICANA-AMERICANA EN LOS ESTADOS UNIDOS (3-0-3). Deals with the historical works of Mexican-Americans, through the Spanish conquest of Mexico and the Colonial period, the Mexican-American War, and the development of the Mexican-American population in the United States over the past 130 years. Reading and papers in Spanish and English required. PREREQ: S 304 or equivalent. Alternate years.

S 410 APPLIED LINGUISTICS FOR THE SPANISH LANGUAGE TEACHER (3-0-3). Applies the main concepts of modern linguistics to specific problems in the teaching of the Spanish language. Application of linguistic theory to foreign language teaching with emphasis on the analysis of ways in which traditional, descriptive, and transformational models deal with the system of language in the areas of phonology, morphology, and syntax. PREREQ: LI 305 and six Upper Division credits of Spanish or equivalent. Alternate years.

S 411 ESPANOL AVANZADO (3-0-3). 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 emphasis on 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 LITERATURA MEXICANA-AMERICANA (3-0-3). Representative writings by major Mexican-American authors, with emphasis on social and literary values. PREREQ: S 331 or PERM/INST. Alternate years.

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

S 437 LITERATURE CONTEMPORANEA HISPANOAMERICANA (3-0-3). 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: S 331 or PERM/INST. Alternate years.

S 445 LITERATURA ESPANOLA: SIGLOS 18 Y 19 (3-0-3). The main manifestations of thought and literature from 1700 to 1900, including the periods of the Enlightenment, Realism and Romanticism. PREREQ: S 331 or PERM/INST. Alternate years.

S 447 LITERATURA HISPANOAMERICANA: SIGLO 19 (3-0-3). A detailed study of the representative movements, periods, works, and authors from 1800 to 1910. PREREQ: S 331 or PERM/INST. Alternate years.

S 455 EDAD DE ORO DE LA LITERATURA ESPANOLA (3-0-3). The main literary movements of the Golden Age in Spain (16-17th centuries), with emphasis on representative authors from each. PREREQ: S 331 or PERM/INST. Alternate years.

S 457 LITERATURA HISPANOAMERICANA: COLONIA Y SIGLO 18 (3-0-3). An introduction to the major authors, works, movements, and periods of the Spanish-American literature from the colonial time to the end of the 19th century. PREREQ: S 331 or PERM/INST. Alternate years.

S 465 LITERATURA ESPANOLA MEDIEVAL Y RENACENTISTA (3-0-3). An introduction to the principal authors, works, movements and periods of Spanish literature, from its beginnings to the end of the 15th century. PREREQ: S 331 or PERM/INST. Alternate years.

S 475 EVENTOS CONTEMPORANEOS DE GENTES Y Paises HISPANOAMBLANTES (3-0-3). 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, viewpoints, and institutions, as well as the problems, issues and trends facing this people in their respective countries today. PREREQ: S 376 or S 377 or S 304 or PERM/INST. S 490 SENIOR SEMINAR (3-0-3). Exploration of fields of special interest, either literary or social studies oriented. Individual thought and research culminate in a paper to be presented to the seminar. Practical application of independent study approaches, research methods, and bibliography format. Required of all Spanish majors with Liberal Arts emphasis. PREREQ: Senior standing or PERM/INST.

TE TEACHER EDUCATION

TE 100 STRATEGIES FOR ACADEMIC SUCCESS (2-0-2X SF). This course will help students succeed in college by developing skills and attitudes necessary to achieve their educational goals. The course content includes knowledge of the values, policies, and procedures of the University; information of the University's resources and services; stress and anxiety management; effective life and study skills; effective use of the library; and career exploration.

TE 108 READING AND STUDY SKILLS (2-0-2). This course develops the reading and study skills of the college student through lecture and tutorial instruction. This tutorial instruction involves one hour session each week in which students practice study skills discussed initially in lecture. The following skills areas are included: time management, main ideas processing, textbook reading, note taking, test taking, and library use. (Pass/Fail)

TE 171 INTRODUCTION TO TEACHING I: CLASSROOM OBSERVATION (1-4-1XSF). This course will provide the student with an introduction to the elementary school and the role of the teacher. Topics will include areas of specialization within the profession and a self-awareness of potential as an elementary school teacher. A minimum of ten hours of classroom observation and weekly seminar with a university instructor will be required.

TE 172 INTRODUCTION TO SECONDARY TEACHING: CLASSROOM OBSERVATION (1-1-1HF SF). This course will provide the student with an introduction to the secondary school, the role of the teacher, guidelines for professional preparation, and a minimum of fifteen hours of guided classroom observation. Eight one-hour classroom lectures will be required, with time for classroom observation arranged on an individual basis.

TE 201 FOUNDATIONS OF EDUCATION (3-0-3)(AREA II). A general introductory course in education to provide the student familiarity with the teaching professions. Course objectives of class include social, cultural, philosophical, and historical perspectives of education. In addition, an attempt is made to inspect current educational issues and problems as they relate to the four basic components.

TE 202 FOUNDATIONS OF TEACHING ENGLISH AS A SECOND LANGUAGE (2-0-2XSF). This course is designed to give the student a background in the psychological, linguistic, and cultural foundations of teaching English as a Second Language. The student also is given an overview of current trends in ESL and of the preparation needed to teach ESL.

TE 208 INTRODUCTION TO MICROCOMPUTERS IN EDUCATION (3-0-3). This course introduces students to the use of microcomputers in education. Students will study the BASIC language, terminology and concepts. Students will explore categories of exceptionality shall be explored as to their educational and instructional needs will be included. PREREQ: P 101 and TE 171.

Upper Division

TE 305 TEACHING BEGINNING DEVELOPMENTAL READING, K-3 (3-0-3). Students will learn how to teach reading in the primary grades by studying reading readiness, word recognition, vocabulary, and comprehensive development. Comprehensive instruction including the basal reader and language experience approaches will be demonstrated. Additional topics will include organizing reading instruction and fostering recreational reading. PREREQ: TE 271 or PERM/INST.

TE 306 TEACHING DEVELOPMENTAL AND CONTENT READING, GRADES 4-6 (3-0-3). Students will learn how to teach reading in grades 4-6 by analyzing the aspects of reading in a developmental program. Strategies for planning and teaching content area reading lessons will be explored. Students will be introduced to informal assessment procedures, study skills, and individualized reading approaches. PREREQ: Admission to Teacher Education.

TE 316 CHILDREN'S LITERATURE (3-0-3XSF). This course will provide a survey of literature for children from preschool through early adolescence, with emphasis on recognition of excellence and the value of wide and varied reading experiences. Literature from diverse cultures as well as current issues in book selection will be included.

TE 322 IDENTIFICATION & DIAGNOSIS OF LIMITED ENGLISH PROFICIENT (LEP) STUDENTS (2-0-2XSF). Familiarizes future teachers with language proficiency tests and minimum such as the Bilingual Language Assessment Scales, Bilingual Syntax Measure, Basic Inventory of Natural Language, James Language Dominance Test, Peabody Picture Vocabulary Test are studied. Students will learn to administer and interpret the results of these and other tests so as to properly place students in English as a Second Language ESL. Study.

TE 333 EDUCATING EXCEPTIONAL SECONDARY-AGE STUDENTS (1-4-1XSF). The course is designed to acquaint prospective secondary teachers with the educational needs of secondary students identified as exceptional. Emphasis shall be placed on classroom teaching models that enhance learning for exceptional students.

TE 334 TEACHING IN SPECIAL EDUCATION (3-0-3XF). The course is designed to provide the special education teacher an insight into and understanding of
This course is designed to acquaint students with a systematic approach to con-

for maximum utilization of instructional materials in the various content areas.

PREREQ: TE 201.

students seeking graduate credit will be required to meet additional objectives.

the school's role in safety relative to other public and private agencies.

of general safety education, applied to all fields in general but to public schools

in particular. Includes the study of accidents, safety, accident prevention, and

control safety.

advanced preparation in principles and practices of driver and traffic safety education for

prospective elementary and special education teachers with skills for establishing

and social studies for use in the elementary classroom. Instruction will be

presented in both the Spanish and English languages. PREREQ: S 202 or

intervention techniques, and instructional strategies. PREREQ: TE 344 or

The course details the various components for teaching reading and

written expression, including the selection and usage of appropriate materials

and integrating diagnosis is offered to classroom teachers working with mildly handicapped

students (learning disabled, emotionally disturbed and mildly/moderately men-
tally retarded). PREREQ: Admission to Teacher Education.

TE 431 TEACHING MATH AND LANGUAGE TO THE HANDICAPPED (3-0-3)(S).

The course will detail specific sequences and various approaches to math in-

struction and oral language development, correction procedures, on-going

record keeping and remedial procedures for mildly emotionally disturbed, learning dis-
abled, and mild-moderate mentally retarded. PREREQ: TE 430 or PERM/INST.

Admission to Teacher Education.

TE 450-450G BEHAVIOR INTERVENTION TECHNIQUES (3-0-3)(F).

This course is designed for teachers, counselors, and administrators to gain an understanding

of the principles of behavior and the application of behavioral analysis pro-
cedures. Socializar emphasis will be based upon the Learning Theory Model.

Development of an intervention strategy to deal with the relationship of behavior

to the environment will be stressed. PREREQ: TE 291.

TE 451 ELEMENTARY CURRICULUM AND METHODS (6-0-6)(F/S).

Curriculum and methods in language arts, mathematics, social studies, and science are in-

vestigated. Students develop skills in using media and technology as aids to in-

struction. The emphasis is on methods and materials appropriate to the
developmental stages of school children (K-8). First course in a two semester

sequence. PREREQ: M 103, 104. Admission to Teacher Education.

TE 452 ELEMENTARY CURRICULUM AND METHODS (6-0-6)(F/S).

Curriculum and methods in language arts, mathematics, social studies, and science are in-

vestigated. Students develop skills in using media and technology as aids to in-

struction. The emphasis in on methods and materials appropriate to the
developmental stages of school children (K-8). PREREQ: TE 451. Admission to

Teacher Education.

TE 453 TEACHING READING AND LANGUAGE ARTS IN THE BILINGUAL CLAROSSROOM (3-0-3)(F).

Developing an understanding of various approaches to reading instruction. Includes review of materials and media, development of
criteria for selection of appropriate instructional materials, instruction given in both
English and Spanish. PREREQ: S 101, 102, 201, and 202 or S 203. Admission to

Teacher Education.

TE 454 TEACHING CONTENT IN THE BILINGUAL CLASSROOM (3-8-3)(S).

This course takes the theoretical and practical strategies of instruction in mathematics, science

and social studies for use in the elementary classroom. Instruction will be

presented in both the Spanish and English languages. PREREQ: S 202 or

PERM/INST. Admission to Teacher Education.

TE 456 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE (K-6).

This course covers methods and practices of teaching ESL, such as the Auditory Lingual, Cogni-
tive, Situational Response, Silent Way approaches, etc. Individualized instruction, small group

instruction and learning centers are major areas of discussion. PREREQ: TE 221, 322.

TE 457 CLASSROOM MANAGEMENT SKILLS (3-0-2)(F/S).

This course provides descriptive elementary and special education teachers with skills for establishing

and maintaining productive student learning. Practical, specific actions teachers
can take to promote appropriate behavior and effective relationships will be learned.

PREREQ: P 311, P 325.

TE 463-463G INFANT EDUCATION (3-0-3)(S).

Odd-numbered years. The physical, emotional, and intellectual development of the infant—age birth
to three—will be examined in relation to kinds of environment and learning experiences

that will stimulate and ensure optimum development.

TE 465 CREATING MATERIALS IN EARLY CHILDHOOD EDUCATION (3-0-3)(S).

Students will become familiar with a variety of classroom materials. They will

design and make materials that are best suited to meet the objectives of their

particular curriculum, as well as individual children's needs. Students will evaluate

materials with children. Students will be expected to supply their own

materials.

TE 471 ELEMENTARY STUDENT TEACHING (0-20-3)(F). Observation and super-

vised teaching. PREREQ: Approval of an application for student teaching. (Pass/Fail).

TE 472 ELEMENTARY STUDENT TEACHING (0-20-3)(F). Observation and super-

vised teaching. PREREQ: Approval of an application for student teaching. (Pass/Fail).

TE 473 ELEMENTARY STUDENT TEACHING IN SPECIAL EDUCATION (0-20-3)(F).

Students will learn about teaching in a resource or self-contained special education classroom.

PREREQ: Required course work in special education and approval for placement in a

special education setting. (Pass/Fail).
College of Education

TE 474 ELEMENTARY STUDENT TEACHING IN THE BILINGUAL CLASSROOM (0-20-5)(F). This course includes observation of teaching in bilingual classrooms at varied grade levels, teaching under the direction of a cooperating teacher in a bilingual classroom and regularly scheduled seminars with a university supervisor. Some areas will be presented in both English and Spanish. May be taken concurrently with TE 453 or TE 454. PREREQ: S 202, TE 453, TE 454. (Pass/Fail).

TE 475 ELEMENTARY STUDENT TEACHING IN THE BILINGUAL CLASSROOM (0-20-5)(S). This course includes observation of teaching in bilingual classrooms at varied grade levels, teaching under the direction of a cooperating teacher in a bilingual classroom and regularly scheduled seminars with a university supervisor. Some areas will be presented in both English and Spanish. May be taken concurrently with TE 453 or TE 454. PREREQ: S 202, TE 453, TE 454. (Pass/Fail).

TE 476 STUDENT TEACHING IN CLASSES FOR THE SEVERELY HANDICAPPED (0-20-5)(F/S). Supervised student teaching in a classroom as well as experience with special conditions unique to the severely handicapped. May include vocational needs, community services and public agencies serving this population. PREREQ: TE 423, TE 473. (Pass/Fail).

TE 477 ELEMENTARY STUDENT TEACHING—SPECIALTY AREA (0-30-6) or (0-15-3)(F/S). This course is reserved for students who are seeking an endorsement to teach in specific disciplines in grades 1-8 or who are seeking an elementary specialist certificate. Students are given assignments in elementary schools where they observe and teach under the supervision of a cooperating teacher and a university supervisor. PREREQ: Admission to student teaching. PREREQ: TE 423, TE 473. (Pass/Fail).

TE 482 JUNIOR HIGH SCHOOL STUDENT TEACHING: DUAL OPTION (0-15-6)(F/S). Supervised student teaching in a junior high school. The student will be placed with a cooperating teacher for one half-semester (full-time) in his/her major/minor field under supervision of University faculty. Seminars are required. PREREQ: Admission to student teaching. PREREQ: Admission to student teaching. COREQ: TE 483. (Pass/Fail).

TE 483 SENIOR HIGH SCHOOL STUDENT TEACHING: DUAL OPTION (0-15-8)(F/S). Supervised student teaching in a senior high school. The student will be placed with a cooperating teacher for one half-semester (full-time) in his/her major/minor field under the supervision of University faculty. Seminars are required. PREREQ: Admission to student teaching. COREQ: TE 482. (Pass/Fail).

TE 484 JUNIOR HIGH SCHOOL STUDENT TEACHING: SINGLE OPTION (1-20-10)(F/S). Supervised student teaching in a junior high school. The student will be placed with a cooperating teacher for ten weeks (full-time) in his/her major/minor field under the supervision of University faculty. Seminars are required. PREREQ: Admission to student teaching. (Pass/Fail).

TE 485 SENIOR HIGH SCHOOL STUDENT TEACHING: SINGLE OPTION (1-20-10)(F/S). Supervised student teaching in a senior high school. The student will be placed with a cooperating teacher for ten weeks (full-time) in his/her major/minor field under the supervision of University faculty. Seminars are required. PREREQ: Admission to student teaching. (Pass/Fail).

TE 489 SEMINAR: CONFLICT IN THE EDUCATIONAL SYSTEM (2-0-2). An interdisciplinary social science approach to practical educational considerations raised by authority, communication, culture, language, social stratification, personality differences, and other sources of conflict in education.

Graduate
(See Graduate College Section for course descriptions)

TE 501 FOUNDATIONS OF READING INSTRUCTION (3-0-3)(F/S/).TU.
TE 502 DIAGNOSIS AND CORRECTION OF READING PROBLEMS (3-0-3)(F/S/).TU.
TE 503 CLINIC FOR READING SPECIALISTS (3-0-3)(S).
TE 504 SEMINAR IN READING EDUCATION (3-0-3)(F/S).
TE 505 INDIVIDUAL TEST AND MEASUREMENTS (3-0-3)(S).
TE 508 DIAGNOSIS AND CORRECTION OF READING PROBLEMS—SECONDARY (3-0-3)(S).TU.
TE 510 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING SOCIAL SCIENCE (3-0-3)(F).
TE 511 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY MATHEMATICS (3-0-3)(S).
TE 512 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING LANGUAGE ARTS AND LINGUISTICS (3-0-3)(F).
TE 513 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCIENCE (3-0-3)(F).
TE 514 COUNSELING/CONSULTING SKILLS FOR EDUCATORS (3-0-3)(F).
TE 515 ADVANCED THEORY OF INSTRUCTIONAL DESIGN FOR SPECIAL EDUCATORS (3-0-3)(F).
TE 516 TEACHING GIFTED AND TALENTED STUDENTS (3-0-3)(S).
TE 517 SEMINAR ON THE SEVERELY HANDICAPPED LEARNER (3-0-3)(S) Odd years.
TE 518 TECHNIQUES FOR CREATIVE WRITING IN ELEMENTARY SCHOOLS (3-0-3)(S).
TE 519 CHILDREN'S LITERATURE, ADVANCED LEVEL (3-0-3)(S).
TE 520 VIDEO DELIVERY SYSTEMS (3-0-3)(Demand).

TE 522 INDIVIDUALIZATION OF READING INSTRUCTION (3-0-3)(S/).
TE 523 THE EMOTIONALLY IMPAIRED CHILD IN THE CLASSROOM (3-0-3)(S/).
TE 531 EDUCATION FOR THE CULTURALLY DIFFERENT LEARNER (3-0-3)(S).
TE 534 ISSUES & TRENDS IN SPECIAL EDUCATION (3-0-3)(S) Even years.

TE 537 INSTRUCTIONAL DESIGN (3-0-3)(F).
TE 538 INSTRUCTIONAL COURSEWARE DESIGN (3-0-3)(F).
TE 539 ARTIFICIAL INTELLIGENCE APPLICATIONS (3-0-3)(S).
TE 541 EDUCATION IN EMERGING NATIONS (3-0-3)(F).
TE 543 EARLY CHILDHOOD: READINGS (3-0-3)(S).
TE 544 EARLY CHILDHOOD: ADVANCED CHILD DEVELOPMENT (3-0-3)(F).
TE 546 EARLY CHILDHOOD: ENVIRONMENTS AND PROGRAMS (3-0-3)(S).
TE 547 EARLY CHILDHOOD: LANGUAGE ACQUISITION AND DEVELOPMENT (3-0-3)(F).

TE 551 FUNDAMENTALS OF EDUCATIONAL RESEARCH (3-0-3).
TE 555 SUPERVISION OF INSTRUCTIONAL PERSONNEL (3-0-3)(S).
TE 559 PHILOSOPHY OF EDUCATION (3-0-3)(S).
TE 561 SCHOOL LAW FOR THE CLASSROOM TEACHER (1-0-1)(S).
TE 562 SCHOOL ORGANIZATION AND FINANCE (1-0-1)(S).
TE 563 CONFLICTING VALUES INFLUENCING EDUCATION (1-0-1)(S).
TE 564 INSTRUCTIONAL TECHNIQUES-SECONDARY SCHOOLS (1-0-1)(S).
TE 565 INTERPRETING EDUCATIONAL RESEARCH (1-0-1)(S).
TE 566 LEARNING THEORY AND CLASSROOM INSTRUCTION (1-0-1)(S).

TE 568 TECHNIQUES OF CLASSROOM MANAGEMENT (1-0-1)(S).

TE 569 TESTING AND GRADING (1-0-1)(S).

TE 570 GRADUATE CORE-ISSUES IN EDUCATION (3-0-3)(S).

TE 573 INSTRUCTIONAL TECHNIQUES-ELEMENTARY SCHOOL (1-0-1)(S).

TE 581 CURRICULUM PLANNING AND IMPLEMENTATION (3-0-3).

TE 582 INSTRUCTIONAL THEORY (3-0-3).

TE 583 SELECTED TOPICS-INSTRUCTIONAL TECHNOLOGY (3-0-3)(Demand).

TE 590 PRACTICUM IN SPECIAL EDUCATION (3-0-3)(F/S).

TE 591 PROJECT (0-0-V).

TE 593 THESIS (0-0-V).

126
The College of Health Science is dedicated to provide a stimulating and challenging environment in which students can gain the professional, technical, and liberal arts foundation to prepare them for lifelong service and training.

Coursework leading to baccalaureate and associate degrees is offered in several health care professional programs. Preprofessional coursework and advising are also provided for those students who need undergraduate studies in order to qualify for medical or other professional schools. The school also recognizes the responsibility of providing continuing education to its graduates and to other health care practitioners. Graduate study and some health science related areas are available in other departments of the University. You may obtain the available areas by contacting the Dean’s office, College of Health Science.

Faculty of the school have the required academic degrees and are registered or certified as practitioners in the areas in which they teach. Hospitals, clinics, government agencies, and a variety of health care practitioners afford the necessary patients, professional support and clinical facilities which are required to complement the classes and laboratories at the university.

Cooperating Agencies
- AT&T
- Boise Samaritan Village, Boise, Idaho
- Booth Memorial Home (Salvation Army), Boise, Idaho
- Central District Health Department, Boise, Idaho
- Community Home Health, Boise, Idaho
- El Ada Head Start, Boise, Idaho
- Grand Oaks Healthcare, Boise, Idaho
- Hillcrest Care Center, Boise, Idaho
- Idaho Elks Rehabilitation Hospital, Boise, Idaho
- Idaho Veterans Nursing Home, Boise, Idaho
- Independent School District of Boise City, Boise, Idaho
- Intermountain Hospital, Boise, Idaho
- Magic Valley Regional Medical Center, Twin Falls, Idaho
- Mercy Medical Center, Nampa, Idaho
- Nelson Institute, Boise, Idaho
- Patient and Family Support Institute, Inc., Boise, Idaho
- St. Alphonsus Regional Medical Center, Boise, Idaho
- St. Joseph’s Hospital, Inc., Lewiston, Idaho
- St. Luke’s Regional Medical Center/Mountain States Tumor Institute, Boise, Idaho
- St. Mary’s School, Boise, Idaho
- Treasure Valley Manor, Boise, Idaho
- Walter Knox Memorial Hospital, Emmett, Idaho
- West Valley Medical Center, Caldwell, Idaho
- YWCA (Battered Women’s Unit), Boise, Idaho
- Veterans Administration Medical Center, Boise, Idaho

University/Community Health Sciences Association, Inc.
The University/Community Health Sciences Association, Inc., is a nonprofit corporation chartered by the State of Idaho for educational and charitable purposes, and to otherwise serve the University.
The objectives of the Association are to promote optimum health services for the community through excellence in health professional education, to promote the growth and development of the College of Health Science at Boise State University and its constituent educational programs, departments, and activities, and to encourage donations of funds and gifts to assist in carrying out these objectives.

The present officers and members of the Board of Directors of the Association are:

Donald L. Pape, D.D.S., President
Mr. James A. Goff, Vice President
Maria Eschen, R.N., Secretary
Charles Robertson, M.D., Treasurer

Ex-officio Directors: Presidents of Ada County Medical Society; District 31 of Idaho Nurses Association.

Information may be obtained by contacting the Dean of the College of Health Science at (208) 385-1678.

Environmental Health
Advisor: Stokes

Environmental Health Specialists play an important role in assisting communities to ensure a healthful environment. Specific activities may include helping private businesses and public agencies maintain sanitary conditions in food establishments, in recreational facilities, and in public and private water supplies. Other activities may include assisting communities in properly disposing of toxic and other wastes, pest control, minimizing community air, water, and noise pollution, and assisting businesses in promoting safe and healthful working conditions.

The Environmental Health curriculum provides a broad background in understanding public health problems and in working with people effectively to arrive at solutions to these problems. During the first two years students take general college education courses. These may be taken at BSU or at other accredited 2 or 4-year colleges or universities, with transfer to BSU for the junior and senior years. Students must also spend twenty hours with environmental health agencies prior to beginning their upper level Environmental Health courses. The upper division student must complete an internship with public health agencies.

Health Science Studies
Advisors: Ashworth, Elison, Long.

The Bachelor of Science degree in Health Science Studies provides a curriculum for students who wish to gain an education in Health Science Studies as a foundation for additional professional or graduate work in several health science professions. (For example: Medicine, Dentistry, Hospital Administration, Medical Technology.) Employment with public health agencies or institutions is also an option. Undecided Health Science majors can use the curriculum to obtain the beginning courses necessary to arrive at solutions to these problems. During the first two years students take general college education courses. These may be taken at BSU or at other accredited 2 or 4-year colleges or universities, with transfer to BSU for the junior and senior years. Students must also spend twenty hours with environmental health agencies prior to beginning their upper level Environmental Health courses. The upper division student must complete an internship with public health agencies.

Pre-Dietetics Program
Advisor: Long

Boise State University does not offer a Bachelor of Science degree in Dietetics. However, Boise State University faculty will advise students who want to take the basic courses at Boise State and transfer to another university to complete the Bachelor of Science requirements.

Degree Requirements

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101, 102</td>
<td>6</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Electives (Area I Core)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psychology P 101</td>
<td>3</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Sociology SO 101</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Area II Core Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Philosophy PH 101, 102</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics M 111 or M 204</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Applied &amp; Environmental Microbiology B 415</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Physics PH 101, 102</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statistics M 111 or M 204</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Statistics M 120</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environmental Health Practicum EH 160</td>
<td>1</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Water Supply and Water Quality Management EH 310</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air Quality Management EH 380</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Community Environmental Health Management EH 320</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Health Administration H 304</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Health Law H 435</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internship EH 493</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Occupational Safety & Health EH 415 ........................................ 3
Epidemiology H 480 ................................................................... 3
Technical Writing E 202 .......................................................... 3
Communication in Small Group CM 251 ................................. 3
Conflict Resolution SO 390 or CM 390 ............................... 3

4. Suggested Electives ............................................................. 12
Pathogenic Bacteriology B 310 ............................................. 4
Human Physiology Z 401 .................................................... 4
Economics EC 201 .............................................................. 3
Bioecology B 423 .................................................................. 4
Parasitology B 412 ............................................................. 4
Management & Organizational Theory MG 301 ............... 3
Physical Geology GO 101 .................................................. 3
State & Local Government PO 102 ................................... 3
Statistics M 361 .................................................................... 3
American National Government PO 101 ............................. 3
Intro Computer in Health Science H 120 ....................... 2
Seminar H 498-499 .............................................................. 1

HEALTH SCIENCE
Bachelor of Science Degree

1. English Composition E 101, 102 .................................... 6
2. Area I Core Requirements .................................................. 12
3. Area II Core Requirements ................................................ 12
4. Area III Core and Science Requirements 22-23
   College Chemistry C 131-134 or
   Essentials of Chemistry C 107-110 .......................... 9
   Mathematics M 111 ............................................................ 5
   General Zoology & General Botany Z 130 or BT 130 or
   General Anatomy & Physiology Z 111, 112 ...................... 8-9
5. Health Science Requirements ................................. 16
   Intro to Computers in Health Science H 120 ............ 2
   Health Delivery Systems H 202 ...................................... 3
   Nutrition H 207 ................................................................ 3
   Intro to Health Law and Ethics H 213 or
   Public Health Law H 435 .................................................. 2
   Epidemiology H 480 ............................................................. 3
   Preprofessional Internship H 499 ...................................... 2
   Seminar H 498-499 .............................................................. 1

NOTE: 34 Upper Division Credits must be included from either Health Science Electives, Area of Emphasis or Electives.

6. Health Science Electives (3 courses) .............................. 9-10
   Medical Terminology H 101 ............................................... 3
   Drugs: Use and Abuse H 109 ............................................. 3
   Disease Conditions I and II H 211, 212 ......................... 3-6
   Assessment of Alcohol & Drug Prob Part I H 214/414 .... 3
   Cardiopulmonary Renal Physiology H 220 ..................... 4
   Pathophysiology H 300 .................................................... 3
   Public Health Administration H 304 ............................... 3
   Applied Pharmacotherapeutics H 306 .............................. 3

7. Emphasis—Select one—Science or General Health Science ........................................... 39-41
   Students should work closely with their advisors to ensure proper selection of courses and completion of specific course prerequisites.

   a. Science Emphasis* (Natural/Physical/and Mathematics)—
      select courses to total 39-41 credits:
      Microbiology or Bacteriology B 205, B 303 .................. 4-5
      Cell Biology B 301 .............................................................. 3
      Pathogenic Bacteriology B 310 ........................................ 4
      Genetics B 343, 344 .......................................................... 3-4
      Parasitology B 412 ............................................................. 3
      Immunology B 420 ............................................................. 3
      Quantitative Analysis & Lab C 211, 212 ....................... 3
      Organic Chemistry & Lab C 317, 318, 319, 320 .......... 10
      Physical Chemistry C 321-324 ....................................... 8
      Biochemistry with Laboratory C 431, 432 ................. 4
      Mathematics M 204 ........................................................ 5
      Statistics M 120 ............................................................... 4

   b. General Health Science Emphasis—
      select courses to total 39-41 credits:
      Microbiology B 205 .......................................................... 4
      Organic Chemistry & Lab C 317, 318, 319, 320 ......... 10
      A First Course in Programming CS 122 ...................... 2
      Technical Writing E 202 .................................................. 3
      Mathematics M 204 .......................................................... 3
      Statistics M 120 or P 305 ............................................. 3-4
      General Physics PH 101, 102 ...................................... 8
      Prin of Economics EC 201, 202 .................................... 3-6
      Accounting AC 205, 206 ............................................... 3-6
      Fund of Speech Comm CM 111 ...................................... 3
      Communication in the Small Group CM 251 ............... 3
      American National Government PO 101 ..................... 3
      State & Local Government PO 102 ................................ 3
      Intro Public Administration PO 303 .............................. 3
      Public Finance PO 310 or EC 310 ............................... 3-4
      Principles of Marketing MG 301 .................................. 3
      Management & Organization Theory MG 301 .......... 3
      Personnel Administration MG 305 ............................. 3
      Applied Anatomy PE 230 .............................................. 3
      Exercise Physiology PE 310 ............................................ 3
      Kinesiology PE 311 ........................................................ 3
      Psychology P 101 ........................................................... 3
      Educational Psychology P 220 ....................................... 3
      Intro to Sociology SO 101 .............................................. 3
      Social Problems SO 102 ............................................... 3
      Sociology of Aging SO 325 ............................................ 3
      Sociology of the Family SO 340 ................................. 3
      Or other courses as approved by the advisor

8. Electives ........................................................................... 9-12
   *Students who intend to apply to colleges of Medicine, Dentistry or Veterinary Medicine should consider taking C 317-320 and M 204.

Recommended Programs

ENVIROMENTAL HEALTH

FRESHMAN YEAR

1st SEM 2nd SEM

English Composition E 101, 102 ................................................ 3 3
General Psychology P 101 .......................................................... 3 3
College Chemistry C 131-134 .................................................. 4 5
General Botany BT 130 ............................................................ 4
Mathematics M 111 or 204 .................................................. 5 3
Electives (Area I) ..................................................................... 15 15

SOPHOMORE YEAR

General Zoology Z 130 ............................................................. 5
Math (Statistics) M 120 ............................................................ 4
Intro Sociology SO 101 ........................................................... 3
Fund of Speech Communication CM 111 ............................ 3
Electives (Area I) ................................................................. 3 3
Elective (Area II) ................................................................... 3
Physics PH 101, 102 ............................................................. 4 4
Environmental Health Practicum EH 160 ........................... 1

JUNIOR YEAR

Organic Chemistry C 317-319 .................................................. 5
Cell Biology B 301 ................................................................. 3 3
CM 251 OR CM 390/SO 290 .................................................. 3
Technical Writing E 202 .......................................................... 3
Electives (Area I) ................................................................... 3
Elective ................................................................................ 3 3
*Professional Requirements (EH & H courses) .................. 9 OR 10

129
# Course Offerings

See page 20 for definition of course numbering system

## EH ENVIRONMENTAL HEALTH

### Lower Division

**EH 160 ENVIRONMENTAL HEALTH PRACTICUM (0-V-3)(F).** Field observations in public health agencies and industry. Requires a minimum 20 hours in the field and periodic seminars with a university instructor. Required for all environmental health majors. (Pass/Fail)

### Upper Division

**EH 310 WATER SUPPLY AND WATER QUALITY MANAGEMENT (2-3-3)(F).** Engineering, biological and management principles of community water supply and water pollution control. PREREQ: Botany, Zoology, Chemistry 131-134, one year Mathematics, Upper Division status. Even-numbered years.

**EH 320 COMMUNITY ENVIRONMENTAL HEALTH MANAGEMENT (2-3-3)(F).** Sanitation and management practices for community problems dealing with waste disposal, vector control, food and milk control, swimming pools, and recreation activities. PREREQ: Botany, Zoology, Chemistry 131-134, one year Mathematics and Upper Division standing. Odd-numbered years.

**EH 380 AIR QUALITY MANAGEMENT (2-0-2)(F).** Chemical, engineering and management principles of community and industrial air quality control. PREREQ: Organic Chemistry or concurrent enrollment. Odd-numbered years.

**EH 415 OCCUPATIONAL SAFETY AND HEALTH (2-3-3)(S).** Recognition, evaluation and control of environmental health hazards or stresses (chemical, physical, biological) that may cause sickness, impair health, or cause significant discomfort. Laboratory or residency of the community. PREREQ: Physics 101-102 and Organic Chemistry or concurrent enrollment. Even-numbered years.

**EH 442-442G HAZARDOUS WASTE MANAGEMENT (2-0-2)(F).** Historical, regulatory and technical aspects of hazardous waste management, relating primarily to the requirements of the Resource Conservation and Recovery Act and the Comprehensive Environmental Reclamation, Compensation and Liability Act.

**EH 493 ENVIRONMENTAL HEALTH INTERNSHIP (0-V-V)(F/S).** Three or more hours of internship per week in a business or governmental agency. The student works within the organization, keeps a record of the experience and discusses these experiences at a seminar. PREREQ: Upper Division standing; recommendation of faculty advisor; consent of instructor. (Pass/Fail)

## H HEALTH SCIENCES

### Lower Division

**H 100 INTRODUCTION TO ALLIED HEALTH (1-0-1)(F).** Various allied health disciplines and their clinical functions are discussed. Information on basic educational requirements, opportunities and advancement for each discipline of health care delivery. Lectures by allied health faculty and guest speakers from the medical community. Orientation to allied health care in clinical facilities.

**H 101 MEDICAL TERMINOLOGY (3-0-3)(F/S).** Introduction to Greek and Latin prefixes, suffixes, combining forms, and roots used in medical terminology, as well as the study of anatomical, physiological and pathological terms, clinical procedures, abbreviations, and lab tests according to systems of the body. Medical terminology is treated as a medical language and clinical application is stressed.

**H 109 DRUGS: USE AND ABUSE (3-0-3)(F).** An introductory course which deals with the basic medical, social and psychopharmacological considerations related to the use of therapeutic and non-therapeutic (recreational) drugs.

**H 120 INTRODUCTION TO COMPUTERS IN HEALTH SCIENCE (1-2-2)(F/S).** The application of word processing, data base management, spread sheet analysis, and graphical presentation of health science information. The acquisition of information on selected topics requiring the use of microcomputers in health science specialties. Special fee required.

**H 160 LIFETIME FITNESS AND WELLNESS (3-2-4)(F/S).** A survey of contemporary fitness and wellness related issues. Emphasis is upon providing an understanding of basic concepts that are essential for knowledgeable decision making. Topics include: mental health, stress, fitness, nutrition, drug use/abuse, disease and aging. Laboratory experiences stress lifestyle changes and an opportunity to set and achieve personal goals. May be taken for Health Science credit or Physical Education credit (PE 160), but not for both.

**H 202 HEALTH DELIVERY SYSTEMS (3-0-3)(F).** Consideration of processes, professionals, politics, programs, laws and institutions which are involved in the maintenance of health and treatment of disease.

**H 206 NURSING SKILLS FOR HEALTH CARE PERSONNEL (1-0-1)(F).** Nursing skills as they pertain to individuals working in a health care setting, to include collecting patient vital signs, body positioning and mechanics, medical and surgical asepsis, and medication preparation. PREREQ: PERM/INST.

**H 207 NUTRITION (3-0-3).** Study of fundamentals of nutrition as a factor in maintaining good health. Present day problems in nutrition are also discussed. Previous or concurrent enrollment in C 107-108 and Z 111 is suggested.
Department of Medical Record Science

Health Sciences Building

Chairperson, Assistant Professor: Patt Elison; Associate Professor: Seddon

Degrees Offered
- AS in Medical Record Technology

Department Statement

Medical Record Science is concerned with the application of techniques used in the development, implementation, and retention of health information. The program is a combination of clinical practice and study in areas such as classification systems, health data, record retention systems, and computerization of health data. Completion of the two year Associate of Science degree in Medical Record Technology will enable the student to be eligible for the national accreditation examination.

The program is accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association in cooperation with the Council on Education of the American Medical Record Association.

Requirements for Admission

1. First Year
   a. See University Admission Policy.
   b. Student must see a Medical Record Technology Advisor.
   c. Complete first semester with a GPA of 2.00 or higher.

2. Second Year
   a. Only students who have completed or are in the process of completing the first year curriculum with a GPA of 2.00 or higher will be considered for acceptance into the second year of the program.
   b. Health status must be adequate to insure successful performance of hospital activities.

Application Process

1. Complete and return to the Medical Record Science Department a “Special Programs Application” on or before March 1 of the first year of study.
2. Complete the interview process.
3. Submit $15.00 for name pin and lab fee, per academic year, payable to the program by September 1st of second year of the program.

Promotion and Graduation

1. Students must maintain a GPA of at least 2.00 in order to enter the second year of the program.
2. A grade of less than C in any professional course, numbered H or MR, must be repeated and raised to C or higher before continuing in the program.

Required Program

MEDICAL RECORD TECHNOLOGY PROGRAM
Associate of Science Degree

<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>
<tr>
<td>Human Anatomy &amp; Physiology Z 111, 112</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Allied Health H 100</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Area III Core Elective</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Medical Terminology H 101</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Medical Records MR 115</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Area II Core Elective</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Computers in Health Care H 120</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>Total Credits</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Records I MR 201, 202</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Diagnostic and Operative Coding MR 207</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Disease Conditions I H 211</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Health Delivery Systems H 202</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Health Law &amp; Ethics H 213</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Medical Records II MR 203, 204</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Health Record Transcription MR 209</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Health Data MR 205</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Disease Conditions II H 212</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Area I Core Elective</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Credits</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>
College of Health Science

After the successful completion of the professional year at BSU, students will have a three week period of directed practice in an affiliated health facility.

Clinical Practice MR 215

Course Offerings

See page 20 for definition of course numbering system

MR MEDICAL RECORDS

Lower Division

MR 115 INTRODUCTION TO MEDICAL RECORDS (3-0-3)(S). Principles of Medical Record Technology, the professional organizations, medical record practitioners, and the content of the hospital chart.

MR 201 MEDICAL RECORDS I (3-0-3)(F). Preparation, analysis, preservation and retrieval of health information manually and by computer. The value of this information to the patient, the doctor, and the community. PREREQ: MR 115. COREQ: MR 202.

MR 202 MEDICAL RECORDS I LABORATORY (0-4-2)(F). Practice in the various methods of numbering, filing, and retrieving health records manually and by computer. COREQ: MR 201.

MR 203 MEDICAL RECORDS II (3-0-3)(S). Quality assurance, basic principles of supervising and managing a medical record department, communication theory and practices for medical record professionals. PREREQ: MR 201. COREQ: MR 204.

MR 204 MEDICAL RECORDS II LABORATORY (0-4-2)(S). Applications in quality assurance, management, and communication principles. Observation of record keeping practices in non-hospital settings and continued computer activities. COREQ: MR 203.

MR 205 HEALTH DATA (3-0-3)(S). Collection and presentation of routine data for daily, monthly and annual hospital statistical reports. Formulas, preparation of birth certificates and abstracting data for the computer. PREREQ: PERM/INST.

MR 207 DIAGNOSTIC AND OPERATIVE CODING (3-0-3)(F). Principles and practice in coding diseases and operations according to International Classification. Other systems of coding and methods of indexing included. PREREQ: PERM/INST.


MR 215 CLINICAL PRACTICE (0-V-2). Following completion of all other program requirements, students spend 120 hours in medical record departments of affiliated health facilities demonstrating their proficiency in the various areas of medical record technology. (Pass/Fail).

Department of Nursing

Science/Nursing Bldg., Rm. 107 Telephone (208) 385-3907

Associate Dean/Chairperson and Associate Professor: Dr. Anne Payne; Associate Degree Faculty: Associate Professors: Fountain, Wilcox; Assistant Professors: Bledsoe, Henbest, MacDonald, Nelson, Peterson; Instructors: Leahy, Pomerance, Springer; Special Lecturers: Carey, Irving. Bachelor of Science Faculty: Professor: Vahey; Associate Professors: Carpenter, Matson, Murray, Taylor; Assistant Professors: Callaghan, Farnsworth, Gehrke, Martin, Ottenness, Shelley, Springer, Straub.

Degrees Offered

• AS, Nursing
• BS, Nursing

Department Statement

The Department of Nursing offers a lower-division nursing curriculum leading to an Associate of Science in Nursing which has had continuous approval of the Idaho State Board of Nursing and has been accredited by the National League for Nursing since 1968. The Associate of Science program prepares graduates for technical nursing practice. Graduates are eligible to write the examination for licensure as a registered nurse.

The Department also offers an upper division, professional nursing program leading to a Bachelor of Science degree. In addition, there is a four-year program leading to the first professional degree. Both programs are approved by the Idaho State Board of Nursing and accredited by the National League for Nursing.

Description of the Associate of Science Program is presented in the following section. The Bachelor of Science Program is presented on page 133.

Associate of Science Degree

Description: This program prepares individuals to function at a beginning level in giving care to patients. Nursing courses include theory and clinical laboratory experiences, primarily in hospitals and other acute care settings. In the clinical component of each nursing course, one credit hour represents three hours of clinical and/or campus laboratory time. During the freshman year, there is an average weekly number of nine to twelve clinical practice hours and during the sophomore year, fifteen to eighteen hours per week, which may be scheduled days, afternoons, or evenings, between the hours of 6:30 a.m. and 11:30 p.m.

The program is approved by the Idaho Board of Nursing and accredited by the National League for Nursing. The graduate is eligible to write the National Council Licensure Examination to become a Registered Nurse (R.N.).

Philosophy: The associate degree-prepared nurse practices primarily in formally organized health care agencies providing direct care for individuals with identified health problems whose nursing needs fall within prescribed standards of guidance from supervisory personnel in making decisions concerning complex nursing situations and in making referrals to other health agencies.

The curriculum includes courses in general education as well as nursing. General education courses provide support knowledge for nursing courses. The nursing courses utilize the nursing process as a system of learning. Content is focused on the identified health needs of all individuals. A planned program of clinical practicum in health care agencies is the major learning experience in the application of theoretical content and in the development of clinical nursing skills.

Advisement: The Associate of Science Degree may be completed in four semesters. However, students' needs and goals may indicate a three year approach to the program. Advisement, therefore, is essential and it is the student's responsibility to seek faculty assistance.

Admission Requirements

Students enter the Associate of Science in Nursing Program in the fall semester. The number of students admitted each year depends upon the availability of personnel and clinical resources in the community.

The number of students that can be admitted to the program is limited. All high school or college transcripts, and ACT or SAT test scores must be submitted to the nursing office in order to make applications complete. The class is selected from qualified applicants by rank of GPA. Those applicants who wish to be part of the initial screening must have completed applications submitted by March 1 of the year of planned enrollment in Nursing courses.

Applicants must meet the general University requirements as well as the stated requirements for the Associate of Science in Nursing Program in one of the categories listed below:

1. Applicants who have completed less than 6 semester credit hours of required general education courses* will be selected on the basis of their high school grade-point average (GPA) or GED and ACT or SAT scores. To be eligible for consideration the applicant must have:
   a. A high school grade point average of 2.50 or above or a GED score of 50, and
   b. an ACT or SAT test score.

Applicants who have earned 6 or more semester credits in required general education courses* are evaluated on their college GPA. To be eligible for consideration students must have earned a minimum of 2.30 GPA with a "C" or better in required general education courses.

2. Transfer students from other associate degree nursing programs and Licensed Practical Nurses (LPN's) who wish to challenge nursing courses should contact the department for specific entrance requirements. Admission is always dependent upon availability of space in the courses the applicant needs for completion of the program.

Completed applications are reviewed after March 1, and the class is selected from applicants who meet minimum qualifications, by rank of GPA. Those applicants selected will be notified by May 1.
A second review of all remaining applicants, and completed applications received after May 1, occurs in June. Any vacancies that have occurred in the class since March 30 will be filled from applicants who meet minimum qualifications. These applicants will be selected by rank of GPA.

A last review of all remaining applications and any completed applications submitted since June occurs in August. Any vacancies that have occurred will be filled at this time from applicants who meet minimum qualifications. These applicants will be selected by rank of GPA.

Registered Nurse licenses are granted by the Idaho Board of Nursing to graduates of approved educational programs who successfully complete the National Council Licensure Examination.

"The Board of Nursing shall have the power to deny any application for license . . . upon determination that the person:

- made or caused to be made, a false, fraudulent, or forged statement in attempting to procure a license to practice nursing: or
- is convicted of a felony or any offense involving moral turpitude: or
- habitually uses alcoholic beverages or narcotic, hypnotic, or hallucinogenic drugs: or
- otherwise engages in conduct of character likely to deceive, defraud, or endanger patients or the public."

Application Procedures
1. Make application for admission to BSU and the Department of Nursing, Associate of Science in Nursing Degree Program. BSU application forms are available in the Administration Building, Room 101. ASN Program applications are available in the Science-Nursing Building, Room 107 at the beginning of each Spring Semester.
2. Submit an official high school transcript or GED test score (50 or above), ACT or SAT scores, and official transcripts of all previous college work. LPNs applying for advanced placement must also submit evidence of previous education as well as current licensure. These documents must be received by the Nursing Department prior to March 1 if applications are to be reviewed in the initial screening.

Following acceptance into the Associate of Science program, all applicants must submit to the Nursing Department by August 1 of each academic year:
1. The completed Health Assessment form provided by the Department of Nursing.
2. Documentation of a negative PPD or a chest X-ray plus documented Rubella immunity report.
3. Documentation of completion of a Cardiopulmonary Resuscitation course (including infant CPR).
4. Annual lab fee payable during registration.

Degree Requirements

ASSOCIATE OF SCIENCE
Full-Time Nursing Student

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essentials of Chemistry C 107, 108</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Nutrition H 207</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Human Anatomy &amp; Physiology Z 111, 112</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Fundamentals of Nursing I &amp; II NA 100-102</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>English Composition E 101</td>
<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microbiology B 205</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>English Composition E 102</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Introduction to Sociology SO 101</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Nursing Intervention I &amp; II NA 200-202</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>*Prerequisite or Corequisite to First Year Nursing Courses.</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

Suggested Curriculum Sequence for BACHELOR OF SCIENCE
Full-Time Nursing Student

<table>
<thead>
<tr>
<th>FIRST 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>
<tr>
<td>College Chemistry C 107-110/131-134 (Area III Core)</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Medical Terminology H 101</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>General Psychology P 101 (Area II Core)</td>
<td>3</td>
<td>-</td>
</tr>
</tbody>
</table>
Mathematics M 108 or above .......................... 4 4
Human Anat & Phys Z 111, 112 (Area III Core) .... 4 4

SECOND YEAR

Microbiology B 205 ........................................ 4 4
Pathophysiology H 300 ................................... 4 4
Applied Pharmacotherapeutics H 306 .......... 3 3
Nutrition H 207 ............................................. 3 3
Elective (Area I Core) ............................... 3 3
Intro Sociology SO 101 (Area II Core) .......... 3 3
Computer Course H 120, TE 208, CS 109 or IS 310 2-3
Introduction to Professional Nursing NU 204 .... 2 2
Nursing & Health Promotion NU 210 .......... 3 3
Nursing & Health Promotion Lab NU 211 .......... 3 3
Health Assessment NU 208 ....................... 2 2
Health Assessment Lab NU 209 ................. 16 17-18

THIRD YEAR

Nursing of the Childbearing Family NU 312 or 2 2
Mental Health/Illness Nursing NU 316 3-3
Nursing of the Childbearing Family Lab NU 313 or 3 3
Mental Health/Illness Nursing Lab NU 317. 3-3
Upper Division Statistics Course P 305 or SO 310 3-4
Introduction to Nursing Research NU 392 .... 3 3
Elective (Area I Core) ............................... 3 3
Elective (Area II Core) ............................... 3 3
Chronic & Rehab Nursing NU 314 .......... 4 4
Chronic & Rehab Nursing Lab NU 315 .......... 3 3
Acute Care Nursing NU 318. ................. 4 4
Acute Care Nursing Lab NU 319 ............. 17-18 17-18

FOURTH YEAR

Community Health Nursing NU 418 .......... 3 3
Community Health Nursing Lab NU 419 .......... 3 3
Elective (Area II Core) ............................... 3 3
Elective (Area I Core) ............................... 6 6
Professional Issues NU 434 .................... 3 3
Nursing Elective ....................................... 2 2
Nursing Leadership NU 438 .................... 3 3
Nursing Leadership Lab NU 439 .......... 3 3

Total Credit Hours: 128-129

NOTE: Each year's course sequence must be completed prior to beginning the next year's courses.

*Registered Nurses currently enrolled in the Baccalaureate Nursing Program will complete course requirements listed on page 135 which must be completed by Spring, 1992. Contact the Department of Nursing for academic advisement. Beginning Fall, 1991 RN's will be granted advanced placement in the curriculum above.

Course Offerings

See page 20 for definition of course numbering system

NU NURSING COURSES

Lower Division

NU 204 INTRODUCTION TO PROFESSIONAL NURSING (2-0-2)(F). Introduction to nursing process and theoretical formulations as basis for clinical decision-making and development of a nursing knowledge base. Includes historical development and criteria of professional nursing. PREREQ: Admission to Nursing major.

NU 208 HEALTH ASSESSMENT (2-0-2)(F). The concepts of systems and development theory, health-illness continuum, and health promotion provide a basis for the health assessment of individuals across the life span. The nursing process is used as a framework for organizing and communicating assessment data. PREREQ: Admission to nursing major. COREQ: NU 204 and NU 209.

NU 209 HEALTH ASSESSMENT LAB (0-2-1)(F). Campus Laboratory for NU 208. COREQ: NU 208.

NU 210 NURSING AND HEALTH PROMOTION (3-0-3)(S). Theoretical basis for acquisition of interpersonal, affective and psychomotor skills needed to maintain, promote and restore health to persons of all ages. Uses nursing theories, nursing process, interaction, growth and development, teaching-learning principles and health as a basis for beginning nursing practice. PREREQ: NU 204, NU 208, NU 209, H 300, B 205, H 207. COREQ: NU 211.

NU 211 NURSING AND HEALTH PROMOTION LAB (0-9-3)(S). Practical application of concepts and knowledge from NU 210 and support courses to nursing care of clients with stable health patterns and health promotion needs. COREQ: NU 210.

Upper Division

NU 312 NURSING CARE OF THE CHILDBEARING FAMILY (2-0-2)(F/S). Focus is on exploration of nursing and psychosocial theories and concepts relevant to the nursing care of the individual and family during the childbearing cycle. PREREQ: NU 210. COREQ: NU 313.

NU 313 NURSING CARE OF THE CHILDBEARING FAMILY LAB (0-6-2)(F/S). Application of theory and concepts from NU 312 in providing nursing care for the childbearing family. COREQ: NU 312.

NU 314 CHRONIC AND REHABILITATIVE NURSING (4-0-4)(F). Focuses on concepts, principles and theories related to the promotion, rehabilitation and maintenance of health for persons of all ages from varied cultures who have chronic health problems. PREREQ: NU 210, H 306. COREQ: NU 315.

NU 315 CHRONIC AND REHABILITATIVE NURSING LAB (0-9-3)(F). Applies concepts, principles and theories from NU 314 to nursing care for persons who have chronic health problems. COREQ: NU 314.


NU 317 MENTAL HEALTH/IllNESS NURSING LAB (0-6-2)(F/S). Application of theory from NU 316 including therapeutic use of self with individuals and families in acute and community settings. Includes cofacilitation of therapeutic groups across the life span. COREQ: NU 316.

NU 318 ACUTE CARE NURSING (4-0-4)(S). Focuses on concepts, principles and theories related to promotion and maintenance of health in acute illness for persons of all ages. COREQ: NU 314. COREQ: NU 319.

NU 319 ACUTE CARE NURSING LAB (0-9-3)(S). Applies concepts, principles and theories from NU 318 to persons with acute illness in a variety of settings. COREQ: NU 318.

NU 392 INTRODUCTION TO NURSING RESEARCH (3-0-3)(S). Research process as applied in health care research. Emphasis on defining researchable problems, conceptualizing research design, and analyzing steps in the research process. Critical review of research articles to evaluate findings for application to nursing practice. PREREQ: NU 210, any upper-division statistics course.

NU 418 COMMUNITY HEALTH NURSING (3-0-3)(F). Principles and concepts basic to community health nursing of individuals, families, groups and communities. Major content areas include: roles and responsibilities of the community health nurse, home health care, epidemiology, community assessment, health promotion and maintenance, and health policy formation. PREREQ: NU 318. COREQ: NU 419.

NU 419 COMMUNITY HEALTH NURSING LAB (0-9-3)(F). Application of community health nursing concepts to individuals, families, groups and a community. COREQ: NU 418.

NU 434 PROFESSIONAL ISSUES IN NURSING (3-0-3)(S). An analysis of contemporary professional nursing and its reciprocal interaction with current, social, political and economic issues. PREREQ: NU 418.

NU 438 NURSING LEADERSHIP (3-0-3)(S). Principles and concepts of the role of the nurse as Leader/Manager. Concepts include allocation of human, financial and material resources, and effective human relations in health care organizations. PREREQ: NU 418. COREQ: NU 439.

NU 439 NURSING LEADERSHIP LAB (0-9-3)(S). Application of concepts and principles from NU 438 in various health care settings to include acute, long-term and community health care organizations. PREREQ: NU 419. COREQ: NU 438.

NU 455 NURSING STRATEGIES IN HIGH RISK CHILDBEARING FAMILIES (3-0-3)(F). Concepts and content relative to potential or actual maternal-fetal-neonatal crises. PREREQ: Current enrollment as Senior nursing major or PERM/INST.

NU 470 PRINCIPLES AND PRACTICES OF SCHOOL NURSING (3-0-3)(F). Application of the principles and practices of community health nursing to the organization, administration, and legal aspects of school health programs. (Meets Idaho Certification Standards for Professional School Personnel.) PREREQ: Current enrollment as Senior nursing major or PERM/INST.

NU 472 NURSING CARE OF THE ADULT IN THE WORKPLACE (3-0-3)(F). Exploration of nursing concepts essential to promotion of health and prevention of illness/accidents in the occupational setting; roles, and responsibilities of the occupational health nurse. PREREQ: Current enrollment as Senior nursing major or PERM/INST.

134
Registered nurses enrolled in the Baccalaureate Nursing Degree program Fall, 1990 will follow the curriculum sequence presented below and must meet all degree requirements by Spring, 1992. Contact the Department of Nursing for academic advising.

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>NB 302</td>
<td>Professional Nursing I</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>NB 308</td>
<td>Nursing Leadership</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>NB 309</td>
<td>Practicum: Nursing Leadership</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>NB 360</td>
<td>Health Assessment</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>NB 361</td>
<td>Practicum: Health Assessment</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>H 300</td>
<td>Pathophysiology</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>NB 364</td>
<td>Family Nursing</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>NB 365</td>
<td>Practicum: Family Nursing</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>NB 372</td>
<td>Nursing Roles in Promoting Group Health</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>NB 402</td>
<td>Practicum: Nursing Roles in Promoting Group Health</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>NB 409</td>
<td>Intro to Nursing Research</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>H 306</td>
<td>Applied Pharmacotherapeutics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Area I, II or III Core Elective</td>
<td>3</td>
<td>4</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>NB 410</td>
<td>Nursing in the Community</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>NB 420</td>
<td>Practicum: Nursing in the Community</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>NB 432</td>
<td>Critical Care Nursing</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>NB 433</td>
<td>Practicum: Critical Care Nursing</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>NB 434</td>
<td>Professional Nursing II</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>NB 435</td>
<td>Psychosocial—Mental Health Nursing</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>PB 410</td>
<td>Pract: Psychosocial—Mntl Hlth Nursing</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>NB 436</td>
<td>Chronic and Rehabilitative Nursing</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>NB 437</td>
<td>Pract: Chronic and Rehabilitative Nursing</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Area I, II or III Core Electives</td>
<td>9</td>
<td>6</td>
</tr>
</tbody>
</table>

Course Offerings

See page 20 for definition of course numbering system

**NB NURSING COURSES**

**Upper Division**

**NB 302 PROFESSIONAL NURSING I (2.0-2.0)(F).** Introduction to theoretical foundations in nursing. Overview of the historical evolution of nursing. Discussion of the professionalization of nursing and characteristics of baccalaureate nursing education. Ethical issues in professional nursing. PREREQ: Admission to B.S. program for R.N.'s

**NB 308 NURSING LEADERSHIP (2.0-2.0)(F).** The leadership process is explored in relation to leadership and management theories, communication, group theories, professional issues, and change. Nursing leadership is emphasized in all areas of nursing responsibility. PREREQ or COREQ: NB 302, NB 360 COREQ: NB 309.

**NB 309 PRACTICUM: NURSING LEADERSHIP (0-2-1)(F).** Laboratory for NB 308. COREQ: NB 308.

**NB 322 NURSING ROLES IN PROMOTING GROUP HEALTH (2.0-2.0)(S).** Analysis of group health based on concepts from systems, developmental, and interactional frameworks in a variety of settings. Emphasizes on levels of prevention and nursing roles in health promotion. PREREQ: NB 308. PREREQ or COREQ: NU 392. COREQ: NB 323.

**NB 323 PRACTICUM: NURSING ROLES IN PROMOTING GROUP HEALTH (0-3-1)(S).** Practicum for NB 322. COREQ: NB 322.

**NB 360 HEALTH ASSESSMENT (3-0-3)(F).** Conceptual base for nursing practice, which includes systems theory and the health-illness continuum. A systems approach is used to assess individual health status and potential. PREREQ or COREQ: NB 303, 308, H 300. COREQ: NB 361.

**NB 361 PRACTICUM: HEALTH ASSESSMENT (0-4-2)(F).** Clinical laboratory for NB 360. COREQ: NB 360.

**NB 364 FAMILY NURSING (2.0-2.0)(S).** Analysis of individual and family health based on concepts from systems and developmental frameworks. Emphasis on application of the nursing process and development of a therapeutic relationship with a childbearing and/or childrearing family. PREREQ: NB 308, NB 360. PREREQ or COREQ: NU 392. COREQ: NB 323, NB 365.


**NB 402 PROFESSIONAL NURSING II (2-0-2)(S).** Leadership role of professional nurse in improvement of health care services, health policy and advancement of nursing profession. Emphasis on emerging nursing roles, ethics, issues and trends. Examination of individual goals relevant to professional commitments. PREREQ: NB 410, 430. COREQ: NB 408, 432.

---

**College of Health Science**

**NB 408 PSYCHOSOCIAL—MENTAL HEALTH NURSING (2-0-2)(S).** Conceptual base for application of nursing process for adaptation of individuals, families and groups to complex psychosocial and mental health and problems. PREREQ: NB 410. COREQ: NB 409.

**NB 409 PRACTICUM: PSYCHOSOCIAL—MENTAL HEALTH NURSING (0-6-2)(S).** Clinical laboratory for NB 408. COREQ: NB 408.


**NB 411 PRACTICUM: NURSING IN THE COMMUNITY (0-6-2)(F).** Clinical laboratory for NB 410. COREQ: NB 410.

**NB 430 CRITICAL CARE NURSING (2-0-2)(F).** Conceptual base for nursing practice applied to individuals of all ages and families to facilitate their adaptation to life-threatening illnesses/trauma. Use of nursing process with emphasis on implementation and evaluation of care. PREREQ OR COREQ: NB 410, 431.

**NB 431 PRACTICUM: CRITICAL CARE NURSING (0-6-2)(F).** Clinical laboratory for NB 430. COREQ: NB 430.

**NB 432 CHRONIC AND REHABILITATIVE NURSING (2-0-2)(S).** Conceptual base for nursing practice applied to individuals of all ages and families to facilitate their adaptation to chronic illness. Use of nursing process with the gerontological client. PREREQ: NB 410, 430. PREREQ or COREQ: NB 402, 408, 433.

**NB 433 PRACTICUM: CHRONIC AND REHABILITATIVE NURSING (0-6-2)(S).** Clinical laboratory for NB 432. COREQ: NB 432.

**Department of Preprofessional Studies**

Health Sciences Building, Room 101 Telephone (208) 385-3832 or 385-1678

Dean and Professor: Eldon Edmundson, Ph.D. General Preprofessional Studies Advisor: Glenda C. Hill.

**Degrees and Majors Offered**

- BS in Pre-Dental with emphasis in Biology or Chemistry
- BS in Pre-Medical Studies with emphasis in Biology or Chemistry
- BS in Pre-Veterinary Medicine Studies
- BS in Medical Technology
- Non-degree Program in Pre-Chiropractic
- Non-degree Program in Pre-Dental Hygiene
- Non-degree Program in Pre-Occupational Therapy
- Non-degree Program in Pre-Optometric
- Non-degree Program in Pre-Pharmacy
- Non-degree Program in Pre-Physical Therapy

**Department Statement**

The Preprofessional Studies Department has responsibility to those students who need to have undergraduate studies prior to applying to a professional school. This includes students who have declared a major in pre-Medicine, pre-Dentistry, pre-Dental Hygiene, pre-Occupational Therapy, pre-Optometry, pre-Pharmacy, pre-Physical Therapy, pre-Veterinary Medicine, pre-Chiropractic, or Medical Technology. In view of the specialized nature of each program the student should seek regular counsel from the advisor who has been designated for his or her major field of interest. A handbook for Preprofessional students is available from the advisors and should be used as a reference.

Students need to be aware of deadlines established by professional schools and testing organizations. Admissions examinations (Medical College Admission Testing, Dental Admission Testing, Dental Hygiene Aptitude Testing, Pharmacy College Admission Testing, and the Veterinary Aptitude Test) must be taken at specific times. These examinations may or may not be administered on the BSU campus. Deadlines for applying to professional schools vary from year to year. The student is responsible for determining the specific deadlines and fees which pertain to her/his field of interest.

In addition to academic coursework the Preprofessional Studies students have opportunities and are encouraged to work in a clinical environment and observe at first hand the practice and delivery of health care.

135
College of Health Science

Qualified students may register for an internship of two credits per semester. These students will work and study in a clinical environment with a practicing physician, dentist, or veterinarian, etc. PREREQ: H 202; upper division standing; cumulative GPA above 3.25; recommendation of faculty advisor; consent of the instructor. See course H 493 described in the Community and Environmental Health Section.

Information is available from advisors concerning state-supported tuition programs for qualified Idaho residents to professional schools outside the state of Idaho. These programs are:

- WAMI (Washington-Alaska-Montana-Idaho) for medical school;
- University of Utah for medical school;
- IDEP (Idaho Dental Education Program) for dental school;
- WOI (Washington-Oregon-Idaho) for veterinary medicine school;
- WICHE (Western Interstate Consortium of Higher Education) for schools of optometry, occupational therapy, and physical therapy.

## Degree Requirements and Recommended Programs

### PRE-DENTISTRY, BIOLOGY OPTION

**Bachelor of Science**

Science-Nursing Building, Room 226  
Telephone (208) 385-3499

Advisor: Dr. Charles W. Baker

**Recommended Programs**

### Bachelor of Science

Science-Nursing Building, Room 211  
Telephone (208) 385-1321

Advisor: Dr. Eugene Fuller

**Requirements**

- General University and Basic Core .................................. 21
- English Composition E 101, 102 .................................. 6
- General Psychology P 101 ........................................... 3
- Zoology Z 130 .......................................................... 5
- Botany BT 130 .......................................................... 4
- Cell Biology B 301 .................................................... 3
- General Bacteriology B 303 ........................................... 5
- Comparative Anatomy Z 301 .......................................... 4
- Vertebrate Embryology Z 351 ........................................ 4
- Physiology Z 401, 409 ................................................ 4
- Genetics with or without Lab B 343, 344 ........................... 3-4
- Vertebrate Histology Z 400 .......................................... 4
- College Chemistry C 131-134 ....................................... 9
- *Organic Chemistry C 317-320 .. 8-10
- Biochemistry with or without LAB C 431, 432 ..................... 3-4
- General Physics PH 101, 102 ...................................... 8
- Mathematics M 111, 204 .................................... 10
- **Electives ............................................................. 21-25

Total must be at least 128

Suggested Program

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>SEM</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16</td>
<td>17-19</td>
</tr>
</tbody>
</table>

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>SEM</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>SEM</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14-15</td>
<td>17</td>
</tr>
</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>SEM</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16</td>
<td>17-18</td>
</tr>
</tbody>
</table>

*Additional Upper Division credits so that Upper Division credits will total at least 40.

**H 202, Health Delivery Systems, is prerequisite for Preprofessional Internship. H 493.

### PRE-DENTISTRY, CHEMISTRY OPTION

**Bachelor of Science**

Science-Nursing Building, Room 226  
Telephone (208) 385-3499

Advisor: Dr. Charles W. Baker

**Recommended Programs**

### Bachelor of Science

Science-Nursing Building, Room 316  
Telephone (208) 385-3965

Advisor: Dr. Richard C. Banks

**Requirements**

- General University and Basic Core .................................. 21
- English Composition E 101, 102 .................................. 6
- General Psychology P 101 ........................................... 3
- Zoology Z 130 .......................................................... 5
- Botany BT 130 .......................................................... 4
- Cell Biology B 301 .................................................... 3
- Comparative Anatomy Z 301 ........................................... 4
- Vertebrate Embryology Z 351 ........................................ 4
- College Chemistry C 131-134 ....................................... 9
- *Organic Chemistry C 317-320 .. 8-10
- Bio or Analytical Chem with Lab C 431, 432 or C 211, 212 .. 4.5
- Physical Chemistry C 321-324 ................................... 8
- Instrumental Analysis C 411 ........................................ 4
- Chemistry Independent Studies C 496 ................................ 2
- Chemistry Seminar C 498, 499 ..................................... 2
- General Physics PH 101, 102 ...................................... 8
- Mathematics M 111, 204 .................................... 10
- Mathematics M 205, 206 ......................................... 8
- **Electives ............................................................. 9-11

Suggested Program

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>SEM</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>SEM</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>SEM</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>SEM</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>3-6</td>
</tr>
</tbody>
</table>

*Additional Upper Division credits so that Upper Division credits will total at least 40.

**H 202, Health Delivery Systems, is prerequisite for Preprofessional Internship.
The states of Idaho and Washington have an agreement under which a number of places in the Washington State University School of Veterinary Medicine are guaranteed each year to qualified Idaho residents. Idaho residents who plan on veterinary medicine as a career should satisfy the entrance requirements for the WSU School of Veterinary Medicine. Students should seek regular counseling from the pre-veterinary medicine advisor.

The student must maintain either at least 3.20 overall GPA or at least 3.30 GPA the last 2 years; and an average of at least 15 credit hours per semester. Candidates with the greater depth and breadth of academic background are given preference by WSU.

Either the Graduate Record Examination (GRE) or the Veterinary Aptitude Test (VAT) should be taken in October prior to the year in which the student hopes to enter the WSU School of Veterinary Medicine. Veterinary medicine is an animal oriented profession; therefore, an applicant's experience in working with animals and an understanding of the veterinary profession are viewed by professional schools' admissions committees as important considerations in the selection process.

### Requirements

**Suggested Program**

<table>
<thead>
<tr>
<th>Area</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science-Nursing Building, Room 212</td>
<td>Telephone (208) 385-3504</td>
</tr>
<tr>
<td>Science-Nursing Building, Room 212</td>
<td>Telephone (208) 385-3504</td>
</tr>
</tbody>
</table>

**Advisors:** Dr. Conrad Colby (208) 385-3383  
Dr. Robert Ellis (208) 385-3478

The Medical Technologist performs many routine and specialized tests in the clinical laboratory to develop data for use in determining the presence and extent of disease, as well as implications as to the cause of disease. Medical Technologists work in areas of hematology, serology and immunology, chemistry, blood banking, microbiology and parasitology, urinalysis, histology, and cytology.

A criterion for admission to many professional schools of Medical Technology is a Bachelor of Science degree comprised of courses presribed by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association. The professional school at St. Alphonsus Regional Medical Center requires such a degree. The Bachelor of Science degree in Health Science Studies (see Department of Community and Environmental Health) satisfies this requirement.

Students have the responsibility of applying directly to hospital schools for admission to a professional program in Medical Technology. Upon admission to a hospital school affiliated with BSU and approved and accredited by CAHEA, the student may register for and earn an additional 32 credits for Medical Technology Clinical Class and Practice (MT 487-8-9) and apply for a Bachelor of Science degree in Medical Technology.

### Requirements

**College of Health Science**

**Bachelor of Science in Medical Technology**

**Area I Core Elective**

<table>
<thead>
<tr>
<th>Course</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101, 102</td>
<td>6</td>
</tr>
<tr>
<td>Area II Core Elective</td>
<td>12</td>
</tr>
<tr>
<td>Zoology Z 130</td>
<td>5</td>
</tr>
<tr>
<td>Botany BT 130</td>
<td>4</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
</tr>
<tr>
<td>Bacteriology B 303</td>
<td>5</td>
</tr>
<tr>
<td>Genetics B 343</td>
<td>3</td>
</tr>
<tr>
<td>College Chemistry C 131-134</td>
<td>9</td>
</tr>
<tr>
<td>Organic Chemistry C 317-320</td>
<td>10</td>
</tr>
<tr>
<td>Biochemistry C 431, 432</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics M 111, 204</td>
<td>10</td>
</tr>
<tr>
<td>General Physics PH 101, 102</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td>38</td>
</tr>
</tbody>
</table>

**Suggested Program**

<table>
<thead>
<tr>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td></td>
</tr>
<tr>
<td>English Composition E 101, 102</td>
<td>3</td>
</tr>
<tr>
<td>College Chemistry C 131-134</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics M 111, 204</td>
<td>5</td>
</tr>
<tr>
<td>Area I Core Courses</td>
<td>3</td>
</tr>
<tr>
<td>Electives (H 202 recommended)*</td>
<td>15</td>
</tr>
</tbody>
</table>

| **SOPHOMORE YEAR** | |
| Zoology Z 130 | 5 |
| Organic Chemistry C 317-320 | 5 |
| Cell Biology B 301 | 3 |
| Electives (H 202 recommended)* | 16 |
| Area II Core Courses | 14 |

| **JUNIOR YEAR** | |
| Biochemistry C 431, 432 | 3 |
| Genetics B 343 | 3 |
| General Physics PH 101, 102 | 4 |
| Electives | 4 |
| Area I, II Core Courses | 3 |

| **SENIOR YEAR** | |
| Bacteriology B 303 | 5 |
| Electives | 16-17 |
| Area I Core Course | 3 |

**H 202, Health Delivery Systems, is prerequisite for H 493, Preprofessional Internship.**

**Advisors:** Dr. Conrad Colby (208) 385-3383  
Dr. Robert Ellis (208) 385-3478

The Medical Technologist performs many routine and specialized tests in the clinical laboratory to develop data for use in determining the 137
College of Health Science

Basic Medical Technology MT 201 ........................................ 2
Health Sciences Electives .......................................................... -
Electives Area I or II Core ......................................................... 4
Area I Core or II Core ............................................................... 6
16

JUNIOR YEAR

General Bacteriology B 303 ...................................................... 5
Pathogenic Bacteriology B 310 .................................................. 4
Immunology B 420 ................................................................. 3
Biochemistry C 431 ............................................................... 3
Biochemistry Laboratory C 432 ............................................... 1
Electives Area I or II Core ......................................................... 3
Health Delivery Systems H 202 ............................................... 3
Human Physiology Z 401 ......................................................... 4
Free Electives ........................................................................... 3
17

Sophomore, Junior and Senior years are individually planned in consultation with advisor.

Course Offerings

See page 20 for definition of course numbering system

MT MEDICAL TECHNOLOGY

MT 201 BASIC MEDICAL TECHNOLOGY (2-0-2S). Introduction to the basic aspects of theory and practice encountered in Medical Technology. Even-numbered years.

MT 487 CLINICAL CLASS AND PRACTICE (15 hours per semester—647 hours per semester—12 CR(S). Clinical instruction in a hospital school approved and accredited by CAHEA. PREREQ: Acceptance by a hospital school accredited by CAHEA.

MT 488 CLINICAL CLASS AND PRACTICE (153 hours per semester—647 hours per semester—12 CR(S). Clinical instruction in a hospital school approved and accredited by CAHEA. PREREQ: Acceptance by a hospital school accredited by CAHEA.

MT 489 CLINICAL CLASS AND PRACTICE (153 hours per semester—218 hours per semester—12 CR(S). Clinical instruction in a hospital school approved and accredited by CAHEA. PREREQ: Acceptance by a hospital accredited by CAHEA.

Non-Degree Programs

PRE-CRIMINOLOGIST

Science-Nursing Building, Room 212 Telephone (208) 385-3504
Advisor: Dr. Russell J. Centanni

This two year pre-criminologist program satisfies the minimum requirements of the 15 accredited criminological institutions in the country. Students must maintain a minimum 2.50 GPA for consideration by chiropractic schools. Internships are available with local chiropractors after the completion of the Health Delivery Systems course.

Suggested Program

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEM</td>
<td>SEM</td>
</tr>
<tr>
<td>English Composition E 101, 102 .................</td>
<td>3</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology Z 111, 112 ..................</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry C 131, 133 ................................</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry C 132, 134 ................................</td>
<td>1</td>
</tr>
<tr>
<td>Algebra &amp; Trig M 111 ..................................</td>
<td>5</td>
</tr>
<tr>
<td>General Psychology P 101 ..........................</td>
<td>-</td>
</tr>
<tr>
<td>Area I Core .......................................................</td>
<td>16</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

Organic Chemistry & Lab C 317-319 ....................... 5
Organic Chemistry & Lab C 318-323 ....................... -
General Physics PH 101, 102 .................................. 4
Microbiology B 205 ......................................................... 4
Humanities-Elective ......................................................... 3
Electives ........................................................................... 3
15

Suggested Electives: Health Delivery Systems, Medical Terminology, Pre-professional Internship, Comparative Anatomy, Nutrition, Speech and Communications, Social Science Electives, Introduction to Business.

PRE-DENTAL HYGIENE

Health-Science Building, Room 107 Telephone (208) 385-3832
Advisor: Glenda C. Hill

A career in Dental Hygiene requires either an Associate or a Bachelor of Science in Dental Hygiene. Students may take the first two years of general education courses at BSU and apply for admission to professional school. The program suggested here is based upon the prerequisites generally required by professional schools. Students should consult the advisor and pattern their program at BSU on the requirements of the specific professional school to which they expect to apply.

Suggested Program

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEM</td>
<td>SEM</td>
</tr>
<tr>
<td>English Composition E 101, 102 .....................</td>
<td>3</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology Z 111, 112 ..................</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry C 107, 109 ........................................</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry C 108, 110 ........................................</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics M 108 or M 111 ..........................</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Allied Health H 100 ..................</td>
<td>-</td>
</tr>
<tr>
<td>Area I Core ...............................................................</td>
<td>16</td>
</tr>
</tbody>
</table>

PRE-OPHTHALMOLOGIST

Human Performance Center Telephone (208) 385-3338
Advisor: Dr. Conrad Colby

Students interested in preparing for optometry training should take science courses and laboratories designed for science majors. Brief survey courses in the sciences will not prepare a student for the schools and colleges of Optometry.

Although a minimum of two years of pre-Optometry study is required, most students accepted by a school or college of Optometry have completed three years in an undergraduate college. The student should write to the optometry school of his/her choice for a list of specific courses. A large percentage of students accepted by the schools and colleges of Optometry have earned a bachelor degree.

The requirements for admission to the schools and colleges of Optometry vary. However, all Optometric schools and colleges require at least two years of pre-Optometric study which should include:

Suggested Program

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEM</td>
<td>SEM</td>
</tr>
<tr>
<td>General Zoology Z 130 .................................</td>
<td>1 or 2 semesters</td>
</tr>
<tr>
<td>College Chemistry C 131-134 .........................</td>
<td>2 semesters</td>
</tr>
<tr>
<td>General Physics PH 101, 102 ........................</td>
<td>2 semesters</td>
</tr>
<tr>
<td>English E 101, 102 ........................................</td>
<td>2 semesters</td>
</tr>
<tr>
<td>College Mathematics .......................................</td>
<td>2 semesters</td>
</tr>
<tr>
<td>Additional courses that may be needed for the pre-Optometric program are:</td>
<td></td>
</tr>
<tr>
<td>Psychology .........................................................</td>
<td></td>
</tr>
<tr>
<td>Social Science .....................................................</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry .............................................</td>
<td></td>
</tr>
<tr>
<td>Philosophy .........................................................</td>
<td></td>
</tr>
<tr>
<td>Physiology .........................................................</td>
<td></td>
</tr>
<tr>
<td>Literature .........................................................</td>
<td></td>
</tr>
<tr>
<td>Statistics ..........................................................</td>
<td></td>
</tr>
<tr>
<td>Microbiology .....................................................</td>
<td></td>
</tr>
<tr>
<td>Analytic Geometry .............................................</td>
<td></td>
</tr>
<tr>
<td>Algebra &amp; Trigonometry .....................................</td>
<td></td>
</tr>
<tr>
<td>Comparative Anatomy .........................................</td>
<td></td>
</tr>
<tr>
<td>Differential Calculus .........................................</td>
<td></td>
</tr>
<tr>
<td>Integral Calculus .................................................</td>
<td></td>
</tr>
</tbody>
</table>

PRE-PHARMACY

Science-Nursing Building, Room 314 Telephone (208) 385-3478
Advisor: Dr. Robert Ellis
BSU students who wish to receive a Bachelor of Science in Pharmacy usually plan to take their preprofessional courses at BSU and then apply for admission to the College of Pharmacy at Idaho State University. The Pharmacy program consists of two years of preparatory studies followed by three years in the College of Pharmacy at ISU. The curriculum outlined below is based upon the requirements of ISU. Students who intend to apply to Pharmacy schools other than ISU are advised to consult the pre-Pharmacy advisor and pattern their curriculum after that of the school to which they expect to transfer.

Suggested Program

<table>
<thead>
<tr>
<th>Class Year</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>Chemistry C 131, 133</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry Laboratory C 132, 134</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Mathematics M 111</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>*Mathematics M 204</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Area I Core</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Fundamentals of Speech CM 111</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>SOPHOMORE YEAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zoology Z 130</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Organic Chemistry C 317-318</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry Lab C 319-320</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Microbiology B 205</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Physics PH 101, 102</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Area II Core</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>17-18</td>
<td>16</td>
</tr>
</tbody>
</table>

*When possible it is desirable to take M 204 the first semester and add General Botany BT 190 the second semester of the freshman year. Quantitative Analysis C 211-212 can also be taken as a preprofessional course.

Pre-Physical Therapy

Freshman and Sophomore Students
Health Science Building, Room 107 Telephone (208) 385-3832
Advisor: Glenda Hill

Junior and Senior Students
Health Performance Center (Old Gym) Telephone (208) 385-3838
Advisor: Dr. Conrad Colby

This curriculum is designed for students interested in a professional career in Physical Therapy. A minimum of two preprofessional years is required for admission to a school of Physical Therapy.

The Freshman year suggested is based upon admission requirements of professional schools to which the majority of BSU's pre-Physical Therapy students gain admission.

Suggested Program

<table>
<thead>
<tr>
<th>Class Year</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>Anatomy and Physiology Z 111, 112</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Psychology P 101</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Mathematics M 111</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>College Chemistry C 131, 133</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>College Chemistry Lab C 132, 134</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Electives (Area I, II)</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>18</td>
</tr>
</tbody>
</table>

The student, in consultation with the advisor, should pattern the sophomore year according to the requirements of the Physical Therapy school the student is planning to attend.

Course Offerings

Health Sciences

For Health Sciences courses see course descriptions in Department of Community and Environmental Health.

Department of Radiologic Sciences

Student Health Building Telephone (208) 385-1996
Chairperson and Associate Professor: Thomas L. Kraker; Assistant Professor: McCrorie; Instructors: Staley, Travis.

Degrees Offered

- AS in Radiologic Technology
- BS in Radiologic Technology

Department Statement

To determine the presence of injury or disease, radiologic technologists position patients and operate radiographic equipment to produce medical images necessary for diagnosis. Most technologists work in radiology departments of hospitals or with physicians who maintain private offices.

The Radiologic Technology Program offers a curriculum utilizing both university and clinical components. This integrated program allows students to gain the essential knowledge and skills required to become Registered Radiologic Technologists.

The program is fully accredited by the Committee on Allied Health Education and Accreditation of the American Medical Association in cooperation with the Joint Review Committee on Education in Radiologic Technology. The curriculum will enable the student to complete the associate degree requirements and be eligible for the national certification examination. If desired, the student may continue and earn a Bachelor of Science degree with options in Radiologic Management, in Computerized Tomography/Magnetic Resonance Imaging, and in Ultrasound.

Requirements for Admission

1. Freshman Year
   a. See University Admission Policy.
   b. Student must see a radiologic technology advisor.

2. Sophomore Year
   a. Only students who have completed or are in the process of completing the freshman curriculum with a GPA of 2.25 or higher will be considered for acceptance into the sophomore year of the Radiologic Technology Program. A grade lower than 'C' will not be accepted for any of the required courses.
   b. Health status must be adequate to insure successful completion of all hospital activities.

Application Process

1. Freshman Year
   a. See University Requirements.

2. Sophomore Year
   a. Qualified applicants must complete a "Special Programs Application" and return it to the Radiologic Sciences Department office on or before March 1 of the year in which they plan to begin the second (Sophomore) year of the required radiologic sciences curriculum. Also each applicant must provide the program with a current transcript of courses completed before the March deadline.
   b. Qualified applicants are required to have an interview during the spring semester of the freshman year. Contact the department chairperson for details.
   c. All applicants will be notified of their status by April 25. Due to the limited number of clinical sites, the program can accept only a limited number of students each year.

All students admitted to the Radiologic Technology Program are required to:

1. Submit a negative tuberculosis report (PPD Test) plus a documented Rubella immunity report to the department by December 1 of the Sophomore year.
2. Submit $70.00 as a prepayment for student name pin, clinical malpractice insurance, radiation monitoring badges and markers. This non-refundable cost is payable by May 10 preceding the Sophomore year.
3. Submit a $30.00 Lab Fee, per academic semester, payable at the time of registration.

Promotion and Graduation

1. Students must maintain a GPA of at least 2.50 for the first semester of the professional program. A lower GPA may constitute basis for removal from the program.
College of Health Science

2. A grade of less than C in any professional theory (numbered H, RD) or clinical unit must be repeated and raised to C or higher before continuing in the program.

Required Program

<table>
<thead>
<tr>
<th>Radiologic Technology Program</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition E 101, 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Human Anatomy &amp; Physiology &amp; Lab Z 111, 112</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Medical Terminology H 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essentials of Chemistry &amp; Lab C 107, 108</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Intro to Allied Health H 100</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Mathematics M 108</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Intro Computers in Health Science H 120</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

| Nursing Skills for Health Care Personnel H 206 | 1       |
| Radiographic Positioning I RD 222             | 4       |
| Radiographic Techniques and Control RD 226    | 3       |
| Radiographic Techniques and Control Lab RD 227| 1       |
| Radiological Physics PH 106                   | 3       |
| Intro to Radiography Clinical Experience RD 234| 2       |
| Laboratory Practicum RD 211-212                | 1       |
| Radiation Biology-Protection RD 230            | 2       |
| Radiographic Positioning II RD 242             | 4       |
| Clinical Experience RD 285                     | 4       |
| Area I Core Elective                          | 3       |
| Area II Core Elective                         | 3       |
| **TOTAL**                                     | 18      | 14      |

**SUMMER SEMESTER**

| Clinical Experience RD 375 | 5       |

**JUNIOR YEAR**

| Radiographic Positioning III RD 316 | 3       |
| Special Radiographic Procedures RD 360 | 2       |
| Medical & Surgical Diseases RD 350     | 2       |
| Laboratory Practicum RD 311-321       | 1       |
| Clinical Experience RD 385-395         | 6       |
| Radiologic Therapy & Imaging System RD 338 | 3       |
| Radiologic Quality Assurance RD 340    | 3       |
| Radiographic Positioning IV RD 320     | 3       |
| Area I Core Electives                  | 3       |
| **TOTAL**                              | 17      | 18      |

**SUMMER SEMESTER**

| Clinical Experience RD 397 | 5       |

Baccalaureate Degree Curriculum

Prerequisite for admission: Each student must have met and satisfactorily completed all requirements for the associate degree in Radiologic Technology at BSU, or have an associate degree in Radiologic Technology and/or related discipline from a comparable college/university program, must be ARRT registered technologist, or have permission from the department chairperson.

**MANAGEMENT OPTION**

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Delivery Systems H 202</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Management &amp; Organizational Theory MG 301</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area I Core Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area II Core Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPRING SEMESTER</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel Administration MG 305</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Organizational Behavior MG 401</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Management of Radiologic Services RD 400</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area II Core Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

**Suggested Electives:**

Business Ethics & Social Responsibilities GB 360; Employee and Labor Relations MG 340; Technical Writing E 202; Interviewing CM 307; Statistics (Health Sciences, Education or Psychology).

Application process for Computerized Tomography/Magnetic Resonance Imaging Option and Ultrasound Option:

1. Qualified applicants must complete a "Special Programs Application" and return it to the Department of Radiologic Sciences on or before March 1 of the year in which they will begin the special option.
2. The applicant must provide the Department with a copy of a current transcript of courses completed before the March 1 deadline.

**COMPUTERIZED TOMOGRAPHY/MAGNETIC RESONANCE IMAGING OPTION**

<table>
<thead>
<tr>
<th>SEM</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENIOR YEAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comparative Sectional Imaging RD 430</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Computer Application in Med Imaging RD 431</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Prin of Magnetic Resonance Imaging RD 440</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Proc Case Studies Magnetic Reson Imaging RD 441</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Clinical Exp Mgntic Reson Imaging RD 445</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Area II Core Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>18</td>
<td>16</td>
</tr>
</tbody>
</table>

**NOTE:** The Computerized Tomography Emphasis (RD 440, 441, and 445) and the Magnetic Resonance Emphasis (RD 420, 451, and 455) are offered both semesters. Upon acceptance into this option, the student will be assigned to the appropriate emphasis for each semester.

**ULTRASOUND OPTION**

<table>
<thead>
<tr>
<th>SEM</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENIOR YEAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comparative Sectional Imaging RD 430</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Computer App in Medical Imaging RD 431</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Sonographic Physics &amp; Instrumentation RD 460</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Abdominal Ultrasound RD 461</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Clinical Exp in Ultrasound I RD 467</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Obstetrics/Gynecology Scanning RD 462</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Doppler Procedures RD 463</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Special Sonographic Procedures RD 464</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Conference &amp; Interpretation Ultrasound I RD 465</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Clinical Exp in Ultrasound II RD 468</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Area I Core Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area II Core Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>17</td>
<td>18</td>
</tr>
</tbody>
</table>

**SUMMER SEMESTER**

| Area II Core Elective | 3   |
| Conference & Interpretation Ultrasound II RD 466 | 3   |
| Clinical Exp in Ultrasound III RD 469 | 6   |
| **TOTAL**              | 12  |

Course Offerings

See page 20 for definition of course numbering system

**RD RADIOLOGIC TECHNOLOGY**

<table>
<thead>
<tr>
<th>Lower Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD 211 LABORATORY PRACTICUM (0-3-1)F</td>
</tr>
<tr>
<td>RD 221 LABORATORY PRACTICUM (0-3-1)S</td>
</tr>
<tr>
<td>RD 222 RADIOGRAPHIC POSITIONING I (4-0-4)F</td>
</tr>
<tr>
<td>RD 223 RADIOGRAPHIC TECHNIQUE AND CONTROL (3-0-3)F</td>
</tr>
<tr>
<td>RD 224 RADIOGRAPHIC TECHNIQUE AND CONTROL LABORATORY (0-2-1)F</td>
</tr>
<tr>
<td>RD 230 RADIATION BIOLOGY-PROTECTION (2-0-2XS)</td>
</tr>
</tbody>
</table>

140
RD 234 INTRODUCTION TO RADIOGRAPHY CLINICAL EXPERIENCE (2-6-2)(F). Introduces the students to hospital structure, technical aspects of radiology, and medical ethics, and prepares the students for various professional and patient interactions prior to their hospital experience. PREREQ: RD major or PERM/INST.

RD 242 RADIOGRAPHIC POSITIONING (4-0-4)(S). Continuation of RD 222. The basic concepts and procedures used in obtaining diagnostic radiographs of the digestive and urinary systems, pelvic girdles, bony thorax, pelvis, hips and the spines. PREREQ: RD 222. COREQ: RD 221.

RD 285 RADIOLOGIC TECHNOLOGY CLINICAL PRACTICUM (6-16-4)(S). Supervised clinical hospital experience. The student must complete 75% minimum of recently taught radiographic exams and a minimum 32 hours in darkroom and office procedures. PREREQ: RD 234.

Upper Division

RD 311 LABORATORY PRACTICUM (0-3-1)(F). Laboratory demonstration and practice of the radiographic positions discussed in RD 316. COREQ: RD 316.


RD 321 LABORATORY PRACTICUM (0-3-1)(S). Laboratory demonstration and practice of the special radiographic devices and techniques discussed in RD 320. COREQ: RD 320.

RD 338 RADIOLOGIC THERAPY AND IMAGING SYSTEMS (3-0-3)(S). Analysis of new radiologic imaging systems to include sonography, nuclear medicine, computerized tomography, and magnetic resonance imaging. Therapeutic uses of radiation and cross-section anatomy will also be considered. PREREQ: Upper Division major or PERM/INST.


RD 360 SPECIAL RADIOGRAPHIC PROCEDURES (2-0-2)(F). Fundamental concepts of the more specialized radiographic examinations with emphasis on studies of the nervous and circulatory systems. PREREQ: RD major or PERM/INST.

RD 375 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-40-3)(S). Supervised clinical hospital experience. The student must complete 75% of recently taught radiographic exams plus 50% continued competency exam list. PREREQ: RD 285.

RD 385 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-24-6)(F). Supervised clinical hospital experience. The student must complete a minimum 40% of exams involving the skull, 40% exams in special procedures, and 50% continued competency exam list. PREREQ: RD 375.

RD 395 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-24-6)(S). Supervised clinical hospital experience. The student must complete a minimum 40% of special procedures and 50% continued competency exam list. Plus rotation in minor affiliates. PREREQ: RD 385.

RD 397 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-40-5)(S). Supervised clinical hospital experience. Students rotate through several minor affiliates and complete a minimum 20% of continued competency exam list. PREREQ: RD 395.

RD 400 DEVELOPMENT OF A RADIOLOGY DEPARTMENT (3-0-3)(S). Introduction to the set up and operation of a radiology department including design principles, proposal of demands and providing for growth and development. Structural and shielding requirements will be discussed. PREREQ: PERM/INST.

RD 430 COMPARATIVE SECTIONAL IMAGING IN THE RADIOLOGIC SCIENCES (2-3-0)(F). Identification of basic anatomy on medical images produced by ultrasonography, computerized tomography, and magnetic resonance. Application will include imaging of the sagittal, coronal, and transverse body planes. Limited to Certified Radiologic Technologists. PREREQ: PERM/INST.

RD 431 COMPUTER APPLICATIONS IN MEDICAL IMAGING (2-0-2)(F). Introduction to the development of the computer in Medical Imaging with an emphasis on computer hardware. Clinical applications in computerized tomography, magnetic resonance, and ultrasonography as well as applications for radiology departments will also be discussed. Limited to Certified Radiologic Technologists. PREREQ: H 120 or PERM/INST.

RD 440 PRINCIPLES OF MAGNETIC RESONANCE IMAGING (2-0-2)(F). Provides descriptive information on the basic principles of physics and instrumentation relative to magnetic resonance imaging. Historical development, mathematical and physical concepts of operation, component and systems integration, and peripheral apparatus will be included. Limited to Certified Radiologic Technologists. PREREQ: PERM/INST.

RD 441 PROCEDURAL CASE STUDIES IN MAGNETIC RESONANCE IMAGING (2-0-2)(F). Provides description and discussion of current procedural practices in magnetic resonance imaging. Also allows for analysis of procedural variation with examination of case studies. Limited to Certified Radiologic Technologists. PREREQ: PERM/INST.

RD 445 CLINICAL EXPERIENCE IN MAGNETIC RESONANCE IMAGING (0-24-6)(FS). Supervised clinical experience in the special imaging area of magnetic resonance. Students will rotate between two different Magnetic Resonance Imaging facilities during the semester. Limited to students in the Magnetic Resonance Imaging Program. PREREQ: or COREQ: RD 440.

RD 450 PRINCIPLES OF COMPUTERIZED TOMOGRAPHY (2-0-2)(F). Provides descriptive information on the basic principles of physics and instrumentation relative to computerized tomography. Historical development, mathematical and physical concepts of operation, component and systems integration, and peripheral apparatus will be included. Limited to Certified Radiologic Technologists. PREREQ: PERM/INST.

RD 451 PROCEDURAL CASE STUDIES IN COMPUTERIZED TOMOGRAPHY (2-0-2)(F). Provides description and discussion of current procedural practices in computerized tomography. Also allows for analysis of procedural variation with examination of case studies. Limited to Certified Radiologic Technologists. PREREQ: PERM/INST.

RD 453 CLINICAL EXPERIENCE IN COMPUTERIZED TOMOGRAPHY (0-24-6)(FS). Supervised clinical experience in the special imaging area of computerized tomography. Students will rotate between two different Computerized Tomography facilities during the semester. Limited to students in the Computerized Tomography program. PREREQ: or COREQ: RD 450.

RD 460 SONOGRAPHIC PHYSICS AND INSTRUMENTATION (3-0-3)(F). Provides the student with a thorough knowledge of basic acoustic physics and its application in the field of diagnostic medical sonography. Content includes an examination of the different types of equipment available for medical ultrasonic procedures, quality control, and safety features. Limited to Certified Radiologic Technologists.

RD 461 ABDOMINAL ULTRASOND (3-0-3)(F). Provides descriptive information on the sono graphic procedures of the abdomen to include; normal sonographic anatomy, pathology, pathophysiology, clinical signs and symptoms of disease, differential diagnosis, equipment setup, scanning techniques, and echographic patterns of abdominal vasculature. Limited to Certified Radiologic Technologists.

RD 462 OBSTETRICS/GYNECOLOGY SCANNING (3-0-3)(S). Provides information on the basic female pelvic anatomy and anomalies, obstetrical scanning for the placenta from the first trimester through term, assessment of the gestational age, pathological complication, and patient care and preparation. Also includes general gynecological exams and scanning techniques. Limited to Certified Radiologic Technologists.

RD 463 DOPPLER PROCEDURES (1-0-1)(S). Provides the foundation needed to understand concepts of producing diagnostic images utilizing Doppler. Limited to Certified Radiologic Technologists.

RD 464 SPECIAL SONOGRAPHIC PROCEDURES (1-0-1)(S). Provides descriptive information for special sonographic studies to include imaging of the thyroid, parathyroid, neck masses, superficial structures, breast, male reproductive organs, and chest. Also includes orthopedic, pediatric, ophthalmic, and thoracentesis application. Limited to Certified Radiologic Technologists.

RD 465 CONFERENCE AND INTERPRETATION IN ULTRASOUND I (1-0-1)(S). Provides an opportunity to review case studies, disease processes, and ultrasound diagnosis. Sonographic scans and scanning techniques are reviewed with guest sonographers and/or radiologists. Limited to Certified Radiologic Technologists.

RD 466 CONFERENCE AND INTERPRETATION IN ULTRASOUND II (1-0-1)(S). Provides an opportunity to review case studies, disease processes, and ultrasound diagnosis. Sonographic scans and scanning techniques are reviewed with guest sonographers and/or radiologists. PREREQ: RD 465.

RD 467 CLINICAL EXPERIENCE IN ULTRASOUND I (0-24-6)(F). Supervised clinical experience in diagnostic medical sonography. Students will be given the opportunity to apply sonographic theory as presented in lecture. Limited to students in the Ultrasound program.

RD 468 CLINICAL EXPERIENCE IN ULTRASOUND II (0-24-6)(S). Supervised clinical experience in diagnostic medical sonography. Students will be given the opportunity to apply sonographic theory as presented in lecture. PREREQ: RD 467.

Department of Respiratory Therapy
2268 University Drive
Telephone (208) 385-3383
Chairperson and Professor: Conrad Colby; Director of Clinical Education and Assistant Professor: Jeffrey M. Anderson; Medical Director: D. Merrick, M.D.; Associate Professor: Ashworth; Assistant Professor: Lester.
Degrees Offered

- AS in Respiratory Therapy
- BS in Respiratory Therapy

Department Statement

Respiratory Therapy is an allied health specialty concerned with the treatment, management, control and care of the patient's process of breathing. The Respiratory Therapist is a specialist in the use of therapeutic and evaluation techniques in respiratory care. The Respiratory Therapy curriculum consists of a preprofessional year followed by two years of professional study leading to an Associate of Science degree in Respiratory Therapy. The Associate of Science degree qualifies the student for the examination of the National Board for Respiratory Care. The student may continue on to the Baccalaureate degree.

The Respiratory Therapy Program has been granted accreditation by the Committee on Allied Health Education and Accreditation of the American Medical Association.

Requirements for Admission

RESPIRATORY THERAPY PROGRAM

1. Preprofessional Year
   a. See University Admission Policy.
2. Professional Program
   a. Only students who have completed or are in the process of completing the preprofessional curriculum with a GPA of 2.00 or higher will be considered for acceptance into the Respiratory Therapy Program.
   b. Health status must be adequate to ensure performance of hospital activities.

All students admitted to the Respiratory Therapy Program are required to:

1. Submit a negative PPD or chest x-ray and a documented Rubella immunity report to the department by August of the year in which the student enters the professional program.

Application Process

1. Preprofessional Year
   a. See University Requirements.
2. Professional Program
   a. All students must fill out and return to the Respiratory Therapy Department office a "Special Programs Application" on or before March 1 of the year in which they plan to attend the professional program.
   b. Applicants may be required to have an interview during the spring semester of the preprofessional year. Contact the department chairman for specific dates.
   c. Applicants will be notified of their status by April 25. Due to the limited number of clinical sites, the program can accept only a limited number of students each year.
   d. After being notified of acceptance to the program, submit $17.50 as prepayment for student name pin and clinical insurance. This nonrefundable cost is payable by May 1.
   e. A $16.00 Lab Fee, per academic year, is payable to the department by September 1 of each professional year.

Promotion and Graduation

Students who do not meet these requirements may be removed from the program:

1. Professional Program
   a. Students must earn at least a "C" in every Biology, Health Science, Mathematics, Chemistry, and Respiratory Therapy course.
   b. A grade of less than a "C" in any professional course (numbered H, RT) must be repeated and raised to a "C" or higher.

Required Program

Preprofessional Curriculum: All students who are considering entry into the Respiratory Therapy Program must have completed or be in the process of completing the following preprofessional curriculum. The preprofessional curriculum need not be taken at BSU.

<table>
<thead>
<tr>
<th>PREPROFESSIONAL (FRESHMAN) YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English E 101, 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Human Anatomy &amp; Physiology Z 111, 112</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Essentials of Chemistry &amp; Lab C 107, 108</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Intermediate Algebra M 108</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Medical Terminology H 101</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Area I Core Elective</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Area II Core Elective</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

Professional Curriculum

FIRST PROFESSIONAL (SOPHOMORE) YEAR

| Respiratory Therapy Theory I RT 203 | 2       | 2       |
| Respiratory Therapy Theory II RT 223 | 2       | 2       |
| Respiratory Therapy Lab I RT 204   | 1       | 1       |
| Respiratory Therapy Lab II RT 224  | 1       | 1       |
| Clinical Practicum I RT 208        | 3       | 3       |
| Clinical Practicum II RT 228       | 4       | 4       |
| Cardiopulmonary Renal Physiology H 220 | 3       | 3       |
| Nursing Skills for Health Care Personnel H 206 | 1       | 1       |
| General Pathology RT 209           | 2       | 2       |
| Emergency Procedures in Resp Care RT 213 | 1       | 1       |
| Chest Assessment RT 217            | 1       | 1       |
| Laboratory Values H 210            | 1       | 1       |
| Area I or II Core Electives        | 3       | 3       |
| Pulmonary Function Lecture RT 225  | 2       | 2       |
| Pulmonary Function Laboratory RT 226 | 1       | 1       |
| Pulmonary Medicine I RT 227        | 2       | 2       |
| Microbiology B 205                 | 4       | 4       |
| Total                             | 18      | 16      |

SECOND PROFESSIONAL (JUNIOR) YEAR

| Respiratory Therapy Theory III RT 303 | 3       | 3       |
| Respiratory Therapy Theory IV RT 323 | 2       | 2       |
| Respiratory Therapy Lab III RT 304   | 1       | 1       |
| Respiratory Therapy Lab IV RT 324    | 1       | 1       |
| Clinical Practicum III RT 308        | 5       | 5       |
| Clinical Practicum IV RT 328         | 8       | 8       |
| Radiologic Studies of Resp System RT 305 | 1       | 1       |
| Pulmonary Medicine II RT 327         | 2       | 2       |
| Respiratory Cardiology RT 307        | 2       | 2       |
| Professional Seminar RT 398          | 4       | 4       |
| Principles of Pharmacotherapeutics RT 301 | 3       | 3       |
| Area I or II Core Elective           | 3       | 3       |
| Total                               | 17      | 18      |

Baccalaureate Degree Curriculum: Prerequisite for Admission:

Each student must have met and satisfactorily completed all requirements for the associate degree in Respiratory Therapy at BSU, or have an associate degree in Respiratory Therapy and/or related discipline from a comparable college/university program, and have permission of the department chairman.

SENIOR YEAR: Management Option

| Personnel Administration MG 305 | 3       | 3       |
| Organizational behavior MG 401  | 3       | 3       |
| Intro Information Sciences IS 310 OR | 3       | 3       |
| Intro Financial Accounting AC 205 | 3       | 3       |
| Area I or II Core Electives     | 6       | 6       |
| Compensation Management MG 406  | 3       | 3       |
| Respiratory Therapy Colloquium RT 401 | 3       | 3       |
| Area I or II Core Electives     | 6       | 6       |
| Total                           | 15      | 12      |

SENIOR YEAR: Education Option

| Found of Education TE 301   | 3       | 3       |
| Statistical Methods P 305    | 3       | 3       |
| Area I or II Core Electives | 6       | 6       |
| Educational Psychology P 220 | 3       | 3       |
| Secondary School Methods TE 381 | 3       | 3       |
| Respiratory Therapy Colloquium RT 401 | 3       | 3       |
| Area I or II Core Electives | 6       | 6       |
| Total                       | 12      | 15      |
### Course Offerings

See page 20 for definition of course numbering system

#### RT RESPIRATORY THERAPY

**Lower Division**

- **RT 203 RESPIRATORY THERAPY THEORY I (2-0-2)(F).** Medical gas therapy to include clinical gases, gas mixtures and various equipment. Theory and technique of aerosol and humidification therapy; introduction to infection control and cardiopulmonary resuscitation. PREREQ: PERM/INST.
- **RT 204 RESPIRATORY THERAPY LABORATORY I (0-2-1)(F).** Medical gas techniques. PREREQ: PERM/INST.
- **RT 208 CLINICAL PRACTICUM I (0-9-3)(F).** Experience in the hospital with patients, techniques, and equipment. Emphasis on use of medical gases. PREREQ: PERM/INST.
- **RT 209 GENERAL PATHOLOGY (2-0-2)(F).** Human pathology pertaining to systems of defense, modes of injury, diseases of development and function, heart, hematopoietic lymphoreticular, and respiratory systems. PREREQ: PERM/INST.
- **RT 213 EMERGENCY PROCEDURES IN RESPIRATORY CARE (1-0-1)(F).** Theory and technique necessary in emergency respiratory care. PREREQ: PERM/INST.
- **RT 217 CHEST ASSESSMENT (1-0-1)(F).** Theory and application of basic chest assessment including inspection, palpation, percussion and auscultation. PREREQ: PERM/INST.
- **RT 223 RESPIRATORY THERAPY THEORY II (2-0-2)(S).** Principles, application and equipment used for hyperinflation therapy. Therapeutic techniques and applications of chest physiotherapy. Introduction to long term mechanical ventilation. PREREQ: PERM/INST.
- **RT 224 RESPIRATORY THERAPY LABORATORY II (0-3-1)(S).** Use of hyperinflation therapy devices, chest physiotherapy and mechanical ventilation. PREREQ: PERM/INST.
- **RT 225 PULMONARY FUNCTION LECTURE (2-0-2)(S).** Theory of pulmonary function testing, using simple spirometry, flow-volume loops, closing volumes, nitrogen washout, helium dilution, and body plethysmography. PREREQ: PERM/INST.
- **RT 226 PULMONARY FUNCTION LABORATORY (0-2-1)(S).** Practice in pulmonary function testing and techniques. PREREQ: PERM/INST.
- **RT 227 PULMONARY MEDICINE I (2-0-2)(S).** Ventilation, perfusion, compliance, resistance and pathophysiology of the lungs. An introduction to pulmonary pathophysiology. PREREQ: PERM/INST.

**Upper Division**

- **RT 301 PRINCIPLES OF PHARMACOTHERAPEUTICS (3-0-3)(F).** Principles, practical uses and interaction of drugs and their relationship to disease. PREREQ: PERM/INST.
- **RT 303 RESPIRATORY THERAPY THEORY III (3-0-3)(F).** Theory and clinical application of mechanical ventilation including care and management of artificial airways and hemodynamic monitoring. PREREQ: PERM/INST.
- **RT 304 RESPIRATORY THERAPY LABORATORY III (0-2-1)(F).** Practice using mechanical ventilators and suctioning devices. PREREQ: PERM/INST.
- **RT 305 RADIOLOGIC STUDIES OF THE RESPIRATORY SYSTEM (1-0-1)(F).** Presentation and interpretation of respiratory radiographs. PREREQ: PERM/INST.
- **RT 307 RESPIRATORY CARDIOLOGY (2-0-2)(F).** Electrophysiology, stress and static testing procedures, and recognition of cardiac arrhythmias. PREREQ: PERM/INST.
- **RT 308 CLINICAL PRACTICUM III (0-16-5)(F).** Experience in the hospital with patients, techniques and equipment as applied to mechanical ventilation and artificial airways. PREREQ: PERM/INST.
- **RT 323 RESPIRATORY THERAPY THEORY IV (2-0-2)(S).** Theory and application of techniques and equipment to neonatology and pediatrics. PREREQ: PERM/INST.
- **RT 324 RESPIRATORY THERAPY LABORATORY IV (0-2-1)(S).** Use of infant ventilators and special techniques pertaining to pediatrics. PREREQ: PERM/INST.
- **RT 327 PULMONARY MEDICINE II (2-0-2)(F).** In-depth examination of pulmonary diseases, certain cardiac diseases, and the clinical management of these diseases. PREREQ: PERM/INST.
- **RT 328 CLINICAL PRACTICUM IV (0-24-8)(S).** Experience in the hospital with any or all aspects of respiratory therapy. PREREQ: PERM/INST.
- **RT 398 RESPIRATORY THERAPY PROFESSIONAL SEMINAR (4-0-4)(S).** Focuses on the ethics and medico-legal aspects of administering a respiratory therapy department. In addition, the problems of budgeting, facilities, personnel, in-service education, record systems, and interdepartmental relations are considered. PREREQ: PERM/INST.
- **RT 401 RESPIRATORY THERAPY COLLOQUIUM (3-0-3)(S).** Investigation of current topics in health care and Respiratory Therapy management. Field work may be combined with seminars to explore topics such as federal and state legislation, current trends in hospital accreditation and audit procedures, ethics of health care, and the role of the Respiratory Therapist as manager. PREREQ: PERM/INST.
The Boise State University College of Technology provides for a focused response to the technological education and training needs of the region. In order to help Idaho achieve a strong growing economy, the educational system needs to provide the tools and structure necessary for engineering and technical education. The College of Technology is meant to focus Boise State University resources more effectively to address deficiencies in these areas and to create an environment that attracts new industry and helps existing industry grow. The College is consistent with Boise State University's mission of providing special emphasis in Applied Technology and entering into joint efforts with other institutions to provide needed educational programs.

The programs and services to be offered through the College of Technology are in direct response to the needs of current and new industries in Southwest Idaho. Increasingly, workers at all levels must possess an ever-broader base of scientific and technical knowledge to produce competitively. In addition to the education and training programs, the College will provide technical assistance to industry, applied research in technology, incubator-type activities and other programs that aid in the region's economic growth and development.

The College of Technology is divided into two schools—the School of Applied Technology and the School of Vocational Technical Education. The School of Applied Technology houses the Bachelor of Applied Science Program, the Construction Management Program, and Pre-engineering. The College has a cooperative arrangement with the University of Idaho, College of Engineering, to offer upper-division and graduate engineering courses on the Boise State University campus. The School of Vocational Technical Education provides pre-employment training, industry upgrade training and customized programs, Adult Basic Education, one-year certificate programs, and Associate of Applied Science Degree Programs.
School of Applied Technology

The School of Applied Technology fulfills its mission within the College of Technology by providing for the technical and engineering-related needs of the region and state, as well as by providing technical assistance to industry through applied research, technology transfer, and incubator activities for economic development.

Department of Construction Management and Pre-Engineering

Technology Building, Room 240 Telephone (208) 385-3764
Chairperson and Professor: Norm Dahm; Professors: Gabert, Parks; Associate Professors: Affleck, Haefer; Assistant Professors: Gains, Mason.

Degrees Offered
• BS in Construction Management
• Pre-Engineering
• B.S. degrees in electrical engineering and computer engineering are available on the Boise State campus from the University of Idaho.

Degree Requirements

CONSTRUCTION MANAGEMENT PROGRAM
Bachelor of Science Degree

Accredited by the American Council for Construction Education (ACCE). The objective of the Construction Management program is to provide education in mathematics, science, communication, engineering, business and construction so that the constructor can intelligently relate to and coordinate the efforts of owners, architects, engineers, craftsmen, contractors and other professionals to provide society with construction services of skill, responsibility and integrity.

FRESHMAN

<table>
<thead>
<tr>
<th>Course</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>Area I Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus and Analytical Geometry M 204*</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Materials &amp; Methods of Architecture AR 290</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Engineering Fund and Comp Prog EN 107</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Engineering Graphics EN 108</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Intro to Management of Construction CO 240</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area II Elective</td>
<td>17</td>
<td>14</td>
</tr>
</tbody>
</table>
to complete a degree in three semesters after transferring from Boise State. The Legal Environment of Business GB 202

Construction Blue Print Commn CO 235

Contracts and Specifications CO 246

Intro to Mechanics EN 205

Intro to Managerial Accounting AC 206

Principles of Economics-Micro EC 202

JUNIOR

Construction Equipment & Methods CO 320

Mechanical Installations CO 351

Cost Estimating and Bidding CO 370

Statistical Tech Dec Making I PR 207

Principles of Finance FI 303

Mechanics of Materials EN 306

Soil Mechanics and Foundation Const CO 330

Soil Mechanics Lab GO 305

Electrical Installations GO 320

Construct Operations & Improve CO 374

Human Resource Law MG 330

Technical Writing E202

SENIOR

Concrete & Formwork Construction CO 410

Project Scheduling & Control CO 417

Fund of Speech Communication CM 111

Technical/Management Electives**

Area I Electives

Project Management CO 475

Project Controls CO 460

Organizational Behavior MG 401

General Electives

CONSTRUCTION MANAGEMENT MINOR

Engineering Graphics EN 108

Const Blue Print Communication CO 235

*Intro Management of Construction CO 240

Contracts & Specifications CO 246

Cost Estimating & Bidding CO 370

*Const Operations & Improvements CO 374

*Project Scheduling CO 417

*Math and/or Physics prerequisite.

TOTAL 18

SOPHOMORE

General Physics PH 101, 102

Engineering Measurements EN 216

Intro to Financial Accounting AC 205

Principles of Economics-Macro EC 201

Construction Blue Print Commn CO 235

1st 2nd

Recommended Freshman Year

1st 2nd

English Composition E 101, 102

Calcultus & Analytical Geometry M 204, 205

College Chemistry C 131, 132, 133*

Engineering Fund & Comp Prog EN 107

Engineering Graphics EN 108

Humanistic Social Elective

15 15

TOTAL 41

* Chemical and Metallurgical majors add C 134.

† Electrical majors select one course from EN 301, EN 306 or EN 320.

ADDITIONAL TRANSFERRABLE COURSES

BRANCH VARIATION

Agricultural Engineering

FRESHMAN YEAR PLUS COMMON CORE

Mechanics/Dynamics EN 206

Thermodynamics and Heat Transfer EN 320

Engineering Measurements EN 216

Biological Science Elective

TOTAL 83

Chemical Engineering

FRESHMAN YEAR PLUS COMMON CORE

Principles of Economics EC 201 (Hum-Soc)

Thermodynamics and Heat Transfer EN 320

Organic Chemistry C 317, 318, 319, 320

Physical Chemistry C 321, 322, 323, 324

TOTAL 95

Civil Engineering

FRESHMAN YEAR PLUS COMMON CORE

Mechanics/Dynamics EN 206

Thermodynamics and Heat Transfer EN 320

Engineering Measurements EN 216

Physical Geology GO 101

TOTAL 87

Electrical Engineering

FRESHMAN YEAR PLUS COMMON CORE

Systems and Circuits II EN 223

Technical Writing E 202

Digital Circuits I EN 227

Electrical & Magnetism PH 381, 382

Mechanics/Dynamics EN 206

TOTAL 92

Mechanical Engineering

FRESHMAN YEAR PLUS COMMON CORE

Princ of Economics EC 201, 202 (Hum-Soc)

Systems and Circuits II EN 223

Mechanics/Dynamics EN 206

Thermodynamics and Heat Transfer EN 320

Technical Writing E 202

TOTAL 85

Geological Engineering

FRESHMAN YEAR PLUS COMMON CORE

Princ of Economics EC 201 (Hum-Soc)

Mechanics/Dynamics EN 206

Thermodynamics and Heat Transfer EN 320

Technical Writing E 202

Physical Geology GO 101

TOTAL 87

Recommended Program

PRE-ENGINEERING MAJOR

All of the following courses will transfer to either of Idaho’s two schools of engineering as well as most other engineering colleges. BSU offers at least 82 of the 128 credits required for an engineering degree in all of the engineering branches offered in Idaho. Therefore, it is possible to complete a degree in three semesters after transferring from Boise State.

B.S. degrees in electrical engineering and computer engineering are available on the Boise State campus from the University of Idaho. Contact your BSU advisor or the University of Idaho Director of Engineering Education for details.
Metallurgical Engineering
FRESHMAN YEAR PLUS COMMON CORE 71
Technical Writing E 202 ........................................ 3
Physical Chemistry C 321-322-323-324 ............... 8
Math Elective .................................................. 3
TOTAL .................................................. 85

Mining Engineering
FRESHMAN YEAR PLUS COMMON CORE 71
Technical Writing E 202 ........................................ 3
Engineering Measurements EN 216 ..................... 3
Physical Geology GO 101 ..................................... 4
TOTAL .................................................. 81

General Engineering (IDAHO STATE)
FRESHMAN YEAR PLUS COMMON CORE 71
Mechanics/Dynamics EN 206 ................................ 3
Thermodynamics and Heat Transfer EN 320 .......... 3
Engineering Measurements EN 216 ..................... 3
Fund of Speech Communication CM 111 ............. 3
Science Elective .............................................. 3
TOTAL .................................................. 86

Course Offerings
See page 20 for definition of course numbering system

CONSTRUCTION MANAGEMENT

Lower Division

CO 235 CONSTRUCTION BLUE PRINT COMMUNICATIONS (2-0-2)(F). The transmission and interpretation of blueprint communications covering different types of drawings, including their organization and format. Emphasizing three-dimensional visualization to make practical applications and determine quantities of work. Learn how to interpret quickly and visualize what is being presented by the drawings. Friday field trips required. PREREQ: EN 108.

CO 240 INTRODUCTION TO THE MANAGEMENT OF CONSTRUCTION (3-0-3)(S). Introduction to construction terminology, industry and management. Includes the planning, staffing, directing and controlling functions with emphasis on the planning, staffing, directing and controlling functions with emphasis on organizations and the schools of management. A survey of the basic trades, methods, quantity take-off calculations, estimating, and scheduling. PREREQ: M 111 or equivalent.

CO 246 CONTRACTS AND SPECIFICATIONS (3-0-3)(S). Contracts, contract documents and specifications for construction including legal as well as technical implications, claims, change orders and contract administration, emphasizing Owner-Engineer/Architect-Contractor functions and related problems. Friday field trips required. PREREQ: GB 202.

Upper Division

CO 320 CONSTRUCTION EQUIPMENT & METHODS (3-0-3)(F). Characteristics, capabilities, limitations and employment of general building and heavy construction equipment. Friday field trips required. PREREQ: EN 205.

CO 330 SOIL MECHANICS AND FOUNDATION CONSTRUCTION (3-0-3)(S). Fundamentals of soil mechanics as it relates to foundation and earthwork construction problems: interaction of water and soil, compaction, bearing capacity, lateral pressures, drainage and waterproofing, spread footings, retaining walls, pile foundations, and special foundation construction problems. PREREQ: M 204 and EN 205 or PERM/INST. COREQ: CO 305.

CO 351 MECHANICAL INSTALLATIONS (3-0-3)(F). The fundamentals of mechanical installations and associated construction problems including heat loss and gain, heating, ventilating and air-conditioning, fluid flow in pipes and ducts as well as water supply, sewage, and fire protection installations. Friday field trips required. PREREQ: PH 102 and EN 205.

CO 352 ELECTRICAL AND ACOUSTICAL INSTALLATIONS (3-0-3)(S). The fundamentals of electrical and acoustical installations and associated construction problems including electrical circuits, conduits, conductors, switch gear; other service equipment and electrical transmission. Also included will be lighting and acoustical installations and associated construction problems. Friday field trips required. PREREQ: PH 102 and EN 205.

CO 370 COST ESTIMATING AND BIDDING (3-3-4)(F). Extracting quantity take-offs from drawings, classifying the work in accordance with specifications, compiling and pricing estimates and preparation of bids. PREREQ: CO 235, CO 246 and M 111 or equivalent.

CO 374 CONSTRUCTION OPERATIONS AND IMPROVEMENTS (2-0-2)(S). The use of statistical sampling, time and motion studies, time-lapse photography, crew balance analysis, flow and process charts to improve methods, labor efficiency, equipment and materials usage, safety and employee motivation. Field trips are required. PREREQ: DS 207.


CO 460 PROJECT COST CONTROLS (3-0-3)(S). Theory of cost accounting and cost control, emphasis on cost determination as a tool of management and project cost control includes bidding, budgeting and developing project cost records, keeping system for managing cash, receive, payable, subcontractors. PREREQ: AC 206 and CO 370.

CO 475 PROJECT MANAGEMENT (2-0-2)(S). Application of professional construction management techniques such as site investigation, contractor and subcontractor qualifications, conceptual estimating and budgeting, value engineering, quality assurance, business development, risk management and ethics as applied to the management of construction projects. PREREQ: CO 240 and CO 246.

CO 493 INTERNSHIP. Cooperative education/internship in construction management provides practical, on-the-job experience in blueprint reading, material takeoffs, estimating, equipment management and project planning.

EN ENGINEERING

Lower Division

EN 100 ENERGY FOR SOCIETY (3-2-4)(AREA III). A general interest course having no prerequisite. A basic understanding of energy and how it has been put to use is developed to promote a better understanding of our present technological society with its energy, environmental, social, and political problems. Alternative energy, as well as conventional energy solutions will be studied.

EN 101 TECHNICAL DRAWING (2-2-2)(F). A basic course in technical drawing covering lettering, the use of drawing instruments, geometry, sketching, orthographic projection, sectioning, dimensioning, pictorial drafting and introduction to micro drafting systems.

EN 104 (CS 124) DIGITAL COMPUTER PROGRAMMING (2-0-2)(F). An introduction to FORTRAN programming principles and logic including input-output, flow charting, handling arrays and subprograms, all applied to problem solving. PREREQ: M 106 or M 108.

EN 107 ENGINEERING FUNDAMENTALS AND COMPUTER PROGRAMMING (3-0-3)(F/S). An introduction to engineering analysis including subdivisions and organization of the professions, methods of analysis, including vectors, computer Fortran programming, use of spread sheets, an introduction to micro computer drafting systems, and general use of the personal computer. PREREQ: M 108, or equivalent.

EN 108 ENGINEERING GRAPHICS (2-2-2)(F). Engineering graphical analysis and graphic transmission of information including use of micro computer design and drafting systems. PREREQ: EN 107 or EN 101.

EN 205 MECHANICS/STATICS (3-0-3). Covers basic statics including equilibrium, analysis of trusses, frames and machines, centroids, static friction and moments of inertia. PREREQ: M 204 or PERM/INST.

EN 206 MECHANICS/DYNAMICS (3-0-3)(S). Kinematics and kinetics of both particle and rigid bodies using the concepts of force, mass, acceleration, work and energy plus impulse and momentum for general plane motion. PREREQ: EN 205.

EN 215 BASIC SURVEYING (1-3-2)(F). A basic course in surveying for non-engineering majors. Course covers use of transit, level, plane table and computations related to travel, traverse and stadia surveys. PREREQ: M 111 or equivalent.

EN 216 ENGINEERING MEASUREMENTS (2-3-3)(S). Theory and practice; manipulation of instruments for horizontal and vertical distance measurements and angle measurements; types and distribution of errors; route and land surveying; construction surveying introduction to photogrammetry. PREREQ: M 111 or equivalent.

EN 221 SYSTEMS AND CIRCUITS I (3-3-3)(X). The fundamental course in electrical engineering which provides an introduction to electrical circuits and basic network analysis. Topics covered are simple resistive, capacitive and inductive circuits, network theorems and circuit analysis methods, and Laplace transforms. PREREQ: M 204.

EN 223 SYSTEMS AND CIRCUITS II (4-3-5). A continuation of EN 221 extending into second order circuits, the use of phasors, AC steady-state analysis and frequency-domain analysis, polyphase circuits, transformers, filters and Fourier analysis. PREREQ: EN 221 and M 205.

EN 227 ELECTRICAL ENGINEERING CIRCUITS (3-0-3)(S). A survey course in circuit analysis for engineering majors other than electrical and mechanical. Topics covered include D.C. and A.C. circuit analysis using the basic network theorems and analysis methods. PREREQ: M 204.

EN 230 DIGITAL CIRCUITS I (3-0-4)(F). An introduction to number systems, Boolean algebra, logic gates, Karnaugh mapping, combinational circuits, registers, and arithmetic operations. PREREQ: Math equivalent to M 106, 108, 111; offered every odd numbered year.
Bachelor of Applied Science Degree

The College of Technology offers a Bachelor of Applied Science degree in a Vocational Technical field. The Bachelor of Applied Science degree is designed to build upon the Associate of Applied Science Degree (A.A.S.) or selected Associate of Science (A.S.) degrees.

Graduates of technical programs that meet the Idaho standards for the A.A.S. degree and are accredited by a regional accrediting body that is recognized by the Council of Postsecondary Accreditation are eligible for admission. The minimum requirements for the A.A.S. degree include:

- Vocational or Technical education courses ................. 42 credits
- Vocational or Technical support courses .................. 10 credits
- General education courses .................................. 12 credits

TOTAL ................................................. 64 CREDITS

Exceptions to the above must be reviewed by the Dean, College of Technology for a determination regarding eligibility for admission. Credit for prior learning will be determined in accordance with prevailing institutional policy.

Recommendations for admission to the Bachelor of Applied Science Degree must be obtained from the Dean, College of Technology. The interested student must be formally admitted into the Bachelor of Applied Science degree program by the Dean, College of Technology.

1. Vocational Technical Education Program ......................... 64
2. General University Requirements .......................... 64
   English Composition .................................... 3-6
   NOTE: Number of required credits is determined by student score on ACT exam. See General University Requirements (Core) for details.
3. Area I Requirements
   Arts & Humanities ........................................ 12
   Three fields must be represented
4. Area II Requirements
   Social Sciences ............................................. 12
   Three fields must be represented
5. Area III Requirements
   Natural Sciences and Mathematics ....................... 12
   Two fields must be represented
   NOTE: Student seeking a B.A.S. with an A.S. degree in Marketing: Mid-Management must complete M 105 and M 106 in addition to the requirements listed above.
   NOTE: University Core courses used to meet vocational technical education requirements cannot be used to meet the above listed Area requirements.
6. Students seeking the B.A.S. degree must have an additional 9 credits chosen from upper division courses in any of the following disciplines (Social Science and Natural Sciences-Mathematics must be represented):
   - Anthropology
   - Biology
   - Chemistry
   - Communication
   - Economics
   - Engineering
   - Geography
   - Geology
   - History
   - Mathematics
   - Physical Science
   - Physics
   - Political Science
   - Psychology
   - Social Work
   - Sociology
   - Teacher Education
7. Upper Division Electives .................................... 13
   NOTE: Students seeking the B.A.S. degree must earn a minimum of 22 upper division credits.
School of Vocational Technical Education

• Business/Special Programs Division: Barbara Egland, Division Manager.
  Business and Office Education: Bounds, Butler, Carlton, Metzgar, Williamson.
• Health/Services Division: Bonnie J. Sumter, Division Manager.
  Child Services Management: Gourley, Noonan; Culinary Arts: Hickman, Kulm, Slough; Dental Assistant: Imbs, MacInnis, Dr. Gunnell; Horticulture Service Technician: Moen, Oyler; Practical Nursing: Borman, Heist, Lagerstrom, McCullough, Tisdale, Towle; Respiratory Therapy Technician: Nuerenberg, Read, M.D., Voigt; Surgical Technology: Curtis.
• Canyon County Division: Dennis Griffin, Division Manager.
  Business and Office Occupations: Bounds; Electrical Lineworker: McKie; Professional Truck Driving: Anchestegui, Castleberry, Hogue; Refrigeration, Heating and Air Conditioning: Messick; Wastewater Technology: Dennis.
• Technical Division: Gary Arambarrí, Division Manager.

Department Chairpersons:
• Adult Basic Education Learning Center: Elaine Simmons
• Vocational Student Services: Bobbi K. Nothern
• Vocational Counselors: Daigle, Heary, Nothern, Quinowski

School of Vocational Technical Education Emeriti: Buchanan, Callies, Dallas, Fleshman, Fuehrer, Hager, Hoff, King, Krigbaum, Lamborn, Leigh, Lingenfelter, Tennyson, Thompson, Trapp, Weston

Objectives of Vocational Education
To provide the opportunity for state and local citizens to acquire the education necessary:
1. To become employed, to succeed, and to progress in a Vocational Technical field.
2. To meet the present and anticipated needs of the local, state and national economy for employees with a Vocational Technical education.
3. To become contributing members of the social, civic, and industrial community.

Admissions Requirements
Students who plan to enter the School of Vocational Technical Education, Boise State University, must submit the following at least one month prior to the start of classes:
1. An official high school transcript showing date of graduation, a high school equivalency certificate, or a GED certificate showing scores earned.
School of Vocational Technical Education

2. Boise State University application—(Vocational Student Services Office; $15.00 application processing fee required).
3. Completion of an entrance assessment THE ASSET EXAMINATION which can be taken at any Idaho Post Secondary Vocational Technical School. There is no fee for the Asset Examination.
4. Personal interview with a School of Vocational Technical Education counselor.
5. $75.00 registration advance security deposit to the School of Vocational Technical Education. This is applied to fees upon registration and is refundable only with justifiable cause. The deadline to apply for the refund is thirty calendar days before classes begin.

A limited number of students can be accepted in each program so all admission requirements should be completed as soon as possible.

When steps 1-4 have been completed and you have been accepted by the Vocational Technical School, you are eligible to pay the $75.00 advance deposit. You are not admitted into a program until steps 1 through 5 have been completed.

Pre-Technical Instruction

Free tutorial assistance for reviewing math, English, study skills and/or reading skills is available to those interested in entering vocational technical programs. Please call (208) 385-3681 or (208) 385-3261 for information.

Adult Learning Center

Elaine Simmons, Department Chairperson

No Credit Granted

The Adult Learning Center operates an open entry/open exit program with individualized assistance provided by staff and volunteers. The following instruction and services are provided to adults at the Boise location on campus as well as at many outreach sites throughout the 10 counties of Southwest Idaho:

- Basic skills instruction in reading, math, English, and writing.
- Instruction and materials for GED and American Government testing preparation.
- GED and American Government testing for the High School Equivalency Certificate.
- Literacy instruction for non-readers.
- English as a Second Language instruction.
- Citizenship preparation classes.
- Tutorial assistance for those needing help in meeting entrance requirements for B.S.U. vocational technical programs.
- Job Training Partnership Act opportunities through the Southwest Idaho Private Industry Council.
- Southwest Center for New Directions—assistance to homemakers and single parents through counseling, workshops and support groups.
- Older Workers Employment Opportunity Program provides training and job placement services to qualified persons 55 years of age and older.
- Career counseling, assistance in developing employability skills and the Career Information System for program participants.
- Computer literacy instruction for program participants.

All services except GED and American Government testing are provided at no cost to those enrolled at the Adult Learning Center. For information or assistance, please call the Adult Learning Center at (208) 385-3681.

Graduation Requirements

All candidates for a Certificate of Completion, Diploma, or Associate of Applied Science Degree must have a minimum of a 'C' grade in the major (technical) coursework. A 2.0 grade point average is required in all other required coursework.

Curriculum Changes

The curriculum in vocational technical programs must reflect the changes and current practices of Business & Industry. Program and course curricula are changed as needs dictate. An approved process is followed prior to implementation of curriculum changes.

Certificate of Completion

The Certificate of Completion is conferred upon students who successfully complete a vocational technical program which is less than a two year curriculum.

Diploma

A Diploma is conferred upon students that successfully complete a two year program but opt not to complete the academic requirements for the Associate of Applied Science degree.

Associate of Applied Science Degree

Two year programs in the School of Vocational Technical Education lead to an Associate of Applied Science degree. The standard requirements for this degree are as follows:

1. Technical Education Requirements — 52 credit hours or equivalent clock hours.
   a. Technical Course work: 42-46 credit hours or equivalent clock hours. (Minimum)
      Program elements which contain instruction directly related to a specific technical area (i.e., skills and knowledge that a person must possess to function as a technician). Course content is determined through a task analysis of the occupation for which training is provided. Local advisory committees may provide additional information.
      Example: Technical Mathematics/Technical Science/ETC.
   b. Technical Support Course work: 10-14 credit hours or equivalent clock hours.
      Course work which supports and relates to the technical content of the program. Content provides the basic tasks needed for the individual to function at an acceptable level within the technical field.
      Example: Mathematics/Physical Science/ETC.

2. General Education Requirements: 12 credit hours or equivalent clock hours.
   Six credits in the area of Communication Skills; the remaining credits in economics, industrial relations, or human relations.

   a. All candidates for the Associate of Applied Science degree must have a minimum of a 'C' grade in the major (technical) coursework. A 2.0 grade point average is required in all other required coursework.
   b. Students requesting admittance to the Bachelor of Applied Science program must make application through the Office of Vocational Student Services, School of Vocational Technical Education. The College of Technology requires that all students admitted to the BAS degree program have no grade lower than a 'C' in their major. The AAS degree is the major in a Bachelor of Applied Science degree program.

Apprenticeship, Trade Extension and Job Upgrading

Managers: Gary Arambarri, Barbara Egland, Dennis Griffin, Bonnie Sumter.

Through cooperative arrangements with the State Board for Vocational Education, Boise State University School of Vocational Technical Education sponsors a wide range of trade extension programs for beginning, apprentice, and journeyman workers. Such courses are designed to meet the specific needs of industry, labor, agriculture, and government. Classes usually meet in the evening. Flexibility of scheduling, content, place of meeting is maintained in order to meet the growing educational needs of the community. Typically, though not invariably, such courses provide related technical education for those workers receiving on-the-job instruction in such vocations as sheetmetal, carpentry, plumbing, welding, electricity, electronics, word processing, automotive, nursing, and farming.
Information concerning admission requirements, costs, dates, etc., may be obtained from Boise State University School of Vocational Technical Education. Phone: (208) 385-1974.

Programs Offered

Agricultural Equipment Technology—Nine Month Program

Certificate of Completion
Instructor: Marlin Gaines

The Agricultural Equipment Technology Program is designed to prepare students for employment in the repair of equipment used in the production and harvesting of agricultural products. Procedures from field troubleshooting to shop overhaul on various types of equipment will be covered. Theory and principles of operation will be stressed including a strong emphasis on safety procedures.

This program is incorporated in the Heavy-Duty Diesel Program which allows enhancement of skills.

A minimum grade of 'C' is required in all coursework to graduate with a certificate of completion.

SUBJECTS

Fall Spring

First Eight Week Block
Basic Mechanics AE 105 1 -
*Intro to Engines DM 106 3 -
*Engine Component Systems DM 107 2 -
*Engine Fuel Systems DM 108 2 -
TOTAL 8 -

Second Eight Week Block
Basic Metal Work & Welding AE 125 2 -
*Clutches & Transmissions DM 110 2 -
*Power Take-Off & Drive Lines DM 111 1 -
*Differential, Power Dividers, Final Drive & Planetary Systems DM 112 2 -
*Hydraulic Assist Transmissions & Hydrostatic Drives AD 135 1 -
TOTAL 8 -

Third Eight Week Block
*Basic Electrical & Magnetism Theory DM 113 2 -
*Batteries, Switches, Relays & Solenoids DM 114 2 -
Lighting Systems, Trouble Shooting AE 140 2 -
Occupational Relations AE 265 1 -
**Intro to Microcomputers AM 180 1 -
TOTAL 8 -

Fourth Eight Week Block
*Basic Hydraulics DM 115 2 -
Advanced Hydraulics AE 145 2 -
Air Conditioning Systems AE 150 2 -
Hay & Forage AE 155 2 -
TOTAL 8 -

*See Auto Mechanics Program for course description.
**See Heavy Duty Mechanics—Diesel Program for course descriptions.

Course Offerings

See page 20 for definition of course numbering system

AE AGRICULTURAL EQUIPMENT TECHNOLOGY

AE 105 BASIC MECHANICS (1-3-1F). Basic principles of heavy duty and agricultural mechanics, including orientation, shop math, hand tools, fasteners, shop equipment and safety will be covered.

AE 125 BASIC METAL WORK AND WELDING (2-5-2F). This course covers measuring, marking, and bending metal properly. Drilling and resizing holes in metal, basic oxyacetylene, ARC, M.I.G. and T.I.G. welding processes. Oxyacetylene torch cutting techniques and welding safety.

AE 133 HYDRAULIC ASSIST TRANSMISSIONS AND HYDROSTATIC DRIVES (1-3-1F). This course covers the theory and repair procedures for overhaul of hydraulic assist transmissions and hydrostatic drive systems.

AE 140 LIGHTING SYSTEMS, TROUBLE SHOOTING (2-6-2S). This course covers the theory and repair procedures on the various types of lighting systems, and trouble shooting of the electrical system.

School of Vocational Technical Education

AE 145 ADVANCED HYDRAULICS (1-7-2S). This course covers the diagnosis and repair procedures associated with open and closed-center hydraulic systems, and tracing hydraulic flows through circuits.

AE 150 AIR CONDITIONING SYSTEMS (1-7-2S). This course covers the basics of air conditioning, refrigerators, and oil, basic system — how it works service equipment, inspecting and diagnosing the system, testing and adjusting the system, and preparing system for service.

AE 155 HAY AND FORAGE (1-7-2S). This course covers types, sizes, operation of balers and stack wagons, preliminary setting and adjustments, and trouble shooting of field problems.

AE 265 OCCUPATIONAL RELATIONS (2-0-1S). This course teaches proper techniques in completing a job application form, job keeping skills, job searching, and resume writing.

Auto Body—Eleven Month Program

Certificate of Completion
Instructor: Charles Parke

The Auto Body Program curriculum is designed to provide the student with the basic skills necessary for employment in the auto body industry. This training provides students with the necessary skills and knowledge for employment in the Auto Body trade and closely related crafts. Training includes Auto Body theory, welding (plastics, braze, mildsteel, wirefeed), painting (lacquer, acrylic enamel, urethanes, blending, matching), metal working (repair, replace, shrinking), frame alignment and repair, repair of new cars (UniCoupe Repair, UniCoupe Bench Systems). A Certificate of Completion is issued upon satisfactory completion of all skills in the eleven month program.

SUBJECTS

Fall Spring Summer

AB Auto Body Lab AB 101, 102, 103 6 6 7
AB Auto Body Theory AB 151, 152 2 3 -
AB Auto Body Theory AB 161, 162 2 3 -
AB Auto Body Theory AB 171 2 - -
Occupational Relations AB 180 - 1 -
Intro Microcomputers AB 182 2 - 1
AB Auto Body Theory AB 191 - 2 -
TOTAL 16 14 7

Course Offerings

See page 20 for definition of course numbering system

AB AUTO BODY

AB 101 AUTO BODY LABORATORY (0-25-6)(F). This course is designed to expose the student to the basic Auto Body Skills, orientation of shop and equipment, welding of thin gauge sheet metal, wirefeed, oxy-acetylene, basic metal roughing, and finishing skills, metal grinding, applications of plastic bondo, basic priming, sanding skills, painting techniques (lacquers, enamels, etc.).

AB 102 AUTO BODY LABORATORY (0-25-6)(S). This course is designed to let the student develop skills in advanced collision damage (panel replacement, bench collision repair, and unitized collision repair), or experience in advanced painting skills (base coat, blending, epoxy primers, paint complete, painted and tape stripes), lacquer, enamels and urethane painting. PREREQ: AB 101 or PERM/INST.

AB 103 AUTO BODY LABORATORY (3-30-75U). This summer session is designed for the student to continue practicing on basic and advanced students to further their skills in preparing for the work force (early out, on-the-job training). Lecture/Lab. PREREQ: AB 102 or PERM/INST.

AB 151 AUTO BODY THEORY (2-0-2F). This section of the course is designed to cover orientation, tools, safety, shop procedures, industry needs and standards. PREREQ: PERM/INST.

AB 152 AUTO BODY THEORY (3-0-3S). This course prepares the student with advanced polishing of paints, paint skills in basecoat-clearcoat, blending, paint matching techniques, sealers, and special coatings. PREREQ: PERM/INST.

AB 161 AUTO BODY THEORY (2-0-2F). This course covers mild steel, brazing, wirefeed welding on car sheet metals, basic oxy-acetylene, MIG welding, plasma air arc cutting, equipment, tools and safety. PREREQ: PERM/INST.

AB 162 AUTO BODY THEORY (3-0-3S). This course is designed to give the student advanced theory skills in minor collision damage, major bench repair techniques, panel replacement, and rubber panel repair. PREREQ: PERM/INST.

AB 171 AUTO BODY THEORY (2-0-2F). This course is designed to give basic theory in metal finishing and minor body damage using plastic body fillers, roughing metal and grinding sheet metals, sandpapers, sanding techniques of plastic fillers, and air tools. PREREQ: PERM/INST.
**School of Vocational Technical Education**

AB 180 OCCUPATIONAL RELATIONS (1-0-3S). This course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment.

AB 181 AUTO BODY THEORY (2-0-2F). This course covers car and light truck body alignments, glass removal, door, hood and trunk alignments, estimating paint damage, estimating collision damage. PREREQ: PERM/INST.

AB 182 INTRO TO MICROCOMPUTERS (1-0-1S). This course introduces the student to microcomputer skills related to the Mechanical Technology field. Students are introduced to Disk Operating Systems (D.O.S.) and word processing to prepare their resumes and reports.

AB 191 AUTO BODY THEORY (2-0-2F). This section of the course is designed to give basic theory in car polishing, paint surface cleaning, interior and exterior detailing, and shop management. PREREQ: PERM/INST.

### Automated Industrial Technician Program

**Associate of Applied Science**

This double-major option combines the Industrial Mechanics/Automation and Welding/Metals Fabrication curriculums. The required general education coursework for the AAS Degree are CM 111 Fundamentals of Speech Communication (3 credits) and 6 credits from EC 201, 202, GB 101, P 101, 151, or SO 101.

#### Course Offerings

**See page 20 for definition of course numbering system**

**AM AUTO MECHANICS**

AM 108 BASIC AUTOMOTIVE MECHANICS (1-1-1F). Basic principles of automotive mechanics including orientation, shop math, hand tool, fastener and equipment identification, shop organization procedures and safety will be covered. This course is required for all auto mechanics students prior to additional coursework.

AM 109 AUTOMOTIVE SERVICE, COOLING (2-2-2F). This course introduces the student to the theory and practice of automotive service with special emphasis on servicing the cooling systems of automobiles.

AM 117 AUTOMOTIVE BRAKE SYSTEMS (1-4-2F). Theory and practice of automotive brake systems inspection, maintenance and repair will be covered including shoe replacement, drum and rotor machining and rebuilding of wheel, master cylinder, and power brake units.

AM 118 AUTOMOTIVE FRONT END SUSPENSION & ALIGNMENT (1-4-2F). This course introduces the student to the theory of automotive suspension systems including inspection, the study and practice of alignment, wear identification, front end rebuilding, and wheel balancing.

AM 119 BASIC WELDING (1-1-1S). Introduction to basic arc welding and oxy-acetylene welding processes. Emphasis is placed on safe operation of welding equipment. Oxy-acetylene torch cutting techniques will also be covered.

AM 125 AUTOMOTIVE ELECTRICAL SYSTEMS (4-4-5F). This course covers identifying and use of basic automotive electronic test equipment, basic electricity, basic automotive electronic theory, testing and rebuilding of starter motors and ignition systems. The theory of Computer Command Control systems will also be covered.

AM 130 ENGINE PERFORMANCE (4-4-5F). The student will be introduced to the design and repair of conventional and electronic ignition systems, fuel delivery systems, carburetion, fuel injection, computer controlled ignition, and fuel systems. The use of scopes and testing equipment will be emphasized.

AM 135 ENGINE REPAIR (3-3-3S). This course covers engine design, engine disassembly, parts evaluation, parts repair and replacement, and proper disassembly techniques, parts evaluation and proper assembly.

AM 140 MANUAL TRANSMISSION AND DIFFERENTIAL REPAIR (4-3-4S). This course introduces students to transmission and differential design, proper disassembly techniques, parts evaluation and proper assembly.

AM 145 EXHAUST SYSTEMS (1-1-1SU). Students will learn evaluation of exhaust systems and replacement or repair of faulty system components. PREREQ: AM 120.

AM 150 EMISSION SYSTEMS (1-4-2SU). This course prepares the student in the principles and laws of various automotive emissions systems to include the function, service and repair of components, diagnostic techniques, and compliance with emission standards.

AM 175 AUTOMATIC TRANSMISSION (3-6-4S). This course teaches the fundamentals of automatic transmissions and design features including servicing, diagnosis, troubleshooting and proper removal, installation, and testing procedures.

AM 180 INTRODUCTION TO MICROCOMPUTERS (2-8-1S). Introduces the student to microcomputer skills related to the mechanical service field.

AM 190 AUTOMOTIVE HEATING AND AIR CONDITIONING (1-4-2SU). This course introduces students to the principles and design of the heating and air conditioning system used in today's automobiles, and teaches the student troubleshooting and repair techniques.

AM 195 ADVANCED ENGINE PERFORMANCE (3-6-4SU). The student will be taught the use of advanced diagnostic equipment to troubleshoot and repair automobile performance, with emphasis placed on electronically related problems.

AM 235 NIASE CERTIFICATION (2-3-2SU). This course is designed to prepare students for National Institute of Automotive Service Excellence Certification examinations. PREREQ: PERM of Division Manager.

AM 262 OCCUPATIONAL RELATIONS (2-0-2SU). This course teaches job searching, proper completion of job application blanks, job keeping skills, resume and curriculum vival development, and telephone techniques.

### Business & Office Education—Nine Month or Two Year Program

**Certificate of Completion**

**Instructors: Karen Bounds, Doris Butler, Janet Carlton, Barbara Egland, Wanda Metzgar, Marge Williamson**

The Business and Office Education Program is designed to meet the needs of students as they prepare to enter the business world in both private industry and government. Upon enrollment in the program,
the student will have an opportunity to pursue a one-year Certificate of Completion in Business and Office Education, or a two-year Associate of Applied Science degree in Business and Office Education in one of the following: Word Processing or Bookkeeping.

The one-year (Nine Month) Certificate of Completion is available both on campus and at the Canyon County facility. The AAS degree is available only on the Boise State University campus.

Approved internship in an office and/or competency testing may be substituted for coursework with special permission of the program head and division manager. This coursework will be monitored and evaluated on a weekly basis by appropriate faculty in consultation with the agency or business with whom the arrangement is contracted.

The Business and Office Education Program is competency based which specifies the student performance objectives and the necessary competencies required for employment at entry level.

A minimum grade of 'C' is required in all Business and Office coursework to graduate with a Certificate of Completion or Associate of Applied Science degree.

### CORE FRESHMAN CLASSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Math OF 105</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Business English OF 109</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Keyboarding I OF 126</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Keyboarding II OF 127</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Intro to Microcomputers OF 161</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Intro to Information Processing OF 162</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Basic Office Procedures OF 107</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>General Correspondence Typing OF 131</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Forms &amp; Manuscript Typing OF 132</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Proofreading &amp; Spelling OF 119</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Business Writing OF 109</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Word Processing I OF 203</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Machine Transcription I OF 158</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Record Keeping OF 155</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Job Seeking Skills/Career Planning OF 153</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>17</td>
<td>19</td>
</tr>
</tbody>
</table>

### Associate of Applied Science Degree

**Business and Office Education (Bookkeeping)**

This area of specialization is designed for the student to obtain a basic knowledge of the business world and to develop the necessary skills to perform competently the duties required of an entry-level bookkeeper.

Upon successful completion of this area of specialization, the learner will not only possess the necessary skills and knowledge to enter the bookkeeping field, but will also have developed basic skills in computerized bookkeeping, word processing, data base management, spreadsheets, proofreading and spelling, and Business English.

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bookkeeping I OF 108</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Spreadsheet I OF 201</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Intro to Data Base Management OF 202</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Applied Business Communications OF 252</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Legal Environment of Business GB 202</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*Technical Support Courses</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Bookkeeping II OF 152</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Computerized Bookkeeping I OF 225</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Computerized Bookkeeping II OF 226</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Supervision OF 256</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Spreadsheet II OF 254</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Elettes</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>

### Associate of Applied Science Degree

**Business and Office Education (Word Processing)**

This area of specialization is designed for the student to obtain a basic knowledge of the business world and to develop the necessary skills to perform competently the duties required of an entry-level word processing operator.

Upon successful completion of this specialization, the learner will not only possess the necessary skills and knowledge to enter the word processing field, but will also have developed basic skills in proofreading and spelling, English usage, word processing, machine transcription, record keeping, spreadsheets, data base management, and information processing.

### Course Offerings

See page 20 for definition of course numbering system

#### OFICE OCCUPATIONS

**OF 105 BUSINESS MATH (3-2-3/F/S).** Fundamental operations of arithmetic in business usage. Applications of business math as used in accounting, management, consumer education, and retailing are stressed.

**OF 107 BASIC OFFICE PROCEDURES (2-4-2/F/S).** This course provides training in filing, telephone techniques, mailing procedures, making appointments, arranging conferences, preparing itineraries, receiving and routing callers, practicing in typing the various office forms. PREREQ: Demonstrated proficiency in typing. Eight-week course.

**OF 108 BOOKKEEPING I (3-2-3/F/S).** Designed to prepare students for the new environment in the modern office. Teaches the use of the general and specialized journals, general and subsidiary ledgers, how to prepare and analyze financial statements, and an introduction to computerized bookkeeping. PREREQ: OF 105.

**OF 109 BUSINESS ENGLISH (4-1-4/F).** Emphasis on development of skills in grammar, sentence structure, word usage, punctuation, and vocabulary. Coverage of capitalization and number usage rules as well as abbreviations. Must complete course with C or better to continue. PREREQ: Demonstrated competency/pretest.

**OF 119 PROOFREADING AND SPELLING (3-2-3/F/S).** Emphasis on learning proofreading techniques with practical applications. Spelling rules and patterns with a mnemonics approach spelling will be covered and applied.

**OF 126 KEYBOARDING I (2-4-2/F/S).** Beginning class introducing the alphabet, basic numeric keyboard and keyboarding skills. Eight-week course.

**OF 127 KEYBOARDING II (2-4-2/F/S).** Emphasis on formatting business correspondence, tables and manuscripts. A speed of 35 wpm should be attained upon completion of this course. Eight-week course.

**OF 131 GENERAL CORRESPONDENCE TYPING (2-4-2/F/S).** Experience in typing a variety of business letter styles with special features, memorandums, and administrative communications. Proofreading skills are stressed. PREREQ: OF 127 or acceptable performance on entrance test and keyboarding speed of at least 35 wpm. Eight-week course.

**OF 132 FORMS AND MANUSCRIPT TYPING (2-4-2/F/S).** Experience in typing a variety of business forms, columnar text, and manuscripts. Proofreading skills are stressed. PREREQ: OF 131 or acceptable performance on entrance test and keyboarding speed of at least 45 wpm. Eight-week course.

**OF 141 PRODUCTION TYPING (2-4-2/F/S).** Development of production competence using automated office systems to prepare general office documents. Emphasis on high-quality work and development of ability to make decisions without direct supervision. PREREQ: OF 131, 132 or acceptable performance on entrance test and keyboarding speed of at least 45 wpm. Eight-week course.
School of Vocational Technical Education

OF 142 TECHNICAL TYPING (2-4-2)(F/S). Development of technical competence using automated office systems to prepare technical, medical, legal and governmental documents. Emphasis on high-quality work and development of ability to make decisions without direct supervision. PREREQ: OF 131, 132 or acceptable performance on entrance test and keyboarding speed of at least 45 wpm. Eight-week course.

OF 152 BOOKKEEPING II (2-3-3)(F/S). Designed to provide a practical knowledge of cost analysis for bookkeeping systems and procedures. Primary concepts include job order and process cost allocation, planning, control responsibility for the accounting and reporting process. PREREQ: OF 108.

OF 153 JOB SEEKING SKILLS/CAREER PLANNING (2-4-2)(F/S). Will help students analyze their job needs and skills and prepare them to present those needs and skills to a prospective employer in a professional manner. Emphasizes: self-analysis, researching employers, resume and cover letter, effective interview techniques, and career planning. Eight-week course.

OF 155 RECORD KEEPING (2-4-2)(F/S). Students will proceed from very simple clerical tasks to the introduction of elementary double-entry bookkeeping concepts. Develops skills and knowledge that students can use in simple clerical office jobs in which record keeping is involved. PREREQ: OF 105.


OF 159 BUSINESS WRITING (3-2-3)(F/S). Emphasis on building a foundation in effective business writing principles by planning, organizing, and writing memos and various types of business letters such as credit, collection, sales, claims adjustments. Psychology, format, content, and style of business letters will be covered. Grade of C or better required to continue. PREREQ: OF 109.

OF 161 INTRO TO MICROCOMPUTERS (2-4-2)(F/S). An introduction to the fundamentals of microcomputers and specialized microcomputer business applications such as spreadsheets and graphics. Eight-week course.

OF 162 INTRO TO INFORMATION PROCESSING (2-4-2)(F/S). An introduction to the fundamentals of word processing and database management business applications. Eight-week course.

OF 169 MACHINE TRANSCRIPTION II (2-4-2)(F/S). Emphasis on transcribing advanced and technical dictation from recorded media using automated office systems. PREREQ: OF 109, OF 119, OF 158, or PERM/INST, and a typing speed of 35 wpm. Eight-week course.

OF 201 SPREADSHEET I (2-4-2)(F/S). Introduction to electronic spreadsheets. Presents concepts of spreadsheet software; understanding the worksheet elements; the command menu; entering numbers, formulas and labels, specifying ranges; entering simple formulas; editing and printing. An eight-week course.

OF 202 INTRO TO DATA BASE MANAGEMENT (2-4-2)(F/S). Introduction to database management. Emphasis will be on creating files; data entry; edit data; how to search for data; create, run and print reports. Eight-week course.

OF 203 WORD PROCESSING II (2-4-2)(F/S). Students will learn basic word processing functions such as merging, sorting, column functions, and headers and footers. PREREQ: OF 127 or typing speed of at least 35 wpm. Eight-week course.

OF 205 ADVANCED SHORTHAND (4-4-5)(F/S). Emphasis is on continued speed building in taking dictation and transcribing. Course includes review of business vocabulary, punctuation, and grammar. PREREQ: OF 151 or advanced placement through proficiency exam.

OF 225 COMPUTERIZED BOOKKEEPING I (2-4-2)(F/S). An introduction to the principles utilizing computers to set up and to maintain a set of books that are common in many small business operations. An integrated system of accounting software will be used to demonstrate the entire bookkeeping cycle. PREREQ: OF 155 or PERM/INST. Eight-week course.

OF 226 COMPUTERIZED BOOKKEEPING II (2-4-2)(F/S). Computerized practical applications using integrated software for the bookkeeping cycle will be implemented. A practice set will be used to cover the bookkeeping cycle as well as a practice set for payroll bookkeeping. PREREQ: OF 225. Eight-week course.

OF 251 RECORDS MANAGEMENT PROCEDURES (2-4-2)(F/S). A study of the principles and procedures of records management, including retention, processing, maintenance, protection, and transfer. Eight-week course.

OF 252 APPLIED BUSINESS COMMUNICATIONS (3-2-3)(F/S). Course is designed to improve student's ability to communicate effectively through written and verbal media as well as to develop a systematic and creative approach to solving communication problems through student's ability to apply principles of effective writing. Emphasis on report writing with research. Concentrates on gathering and writing the information. PREREQ: OF 159.

OF 254 SPREADSHEET II (2-4-2)(F/S). Designed to give students the knowledge and skills necessary to create spreadsheets performing advanced functions. Emphasis will be on creating typical business documents such as: budgets and payroll. PREREQ: OF 201. Eight-week course.

OF 255 WORD PROCESSING II (2-4-2)(F/S). A continuation of Word Processing I with emphasis on intermediate functions such as outlining, table of contents, advanced merge, and math. PREREQ: OF 203. Eight-week course.

OF 256 FUNDAMENTALS OF SUPERVISION (2-4-2)(F/S). Introduction to fundamental principles of first-line supervision, emphasizing the following: role/responsibilities of the supervisor; problem-solving and time management; and assertiveness and conflict management. Eight-week course.

OF 257 MODEL OFFICE SIMULATION (2-4-2)(F/S). Students are "employed" in a classroom simulated office to experience a variety of supervisory positions within a company. PREREQ: OF 256 or PERM/INST. Eight-week course.

OF 262 WORD PROCESSING III (2-4-2)(F/S). Students will learn a variety of advanced word processing concepts and applications used in industry today. Emphasis on advanced applications such as hard disk management, troubleshooting, files management, and macros. PREREQ: OF 255 or PERM/INST. Eight-week course.

OF 293 BUSINESS AND OFFICE INTERNSHIP (0-12-3)(F/S). A practical application of technical knowledge and skills in supervised community business and office settings. Individual contract arrangements involving student, instructor, and employer to gain practical work experience. Monitored and evaluated weekly by appropriate faculty in consultation with the agency or business with whom the arrangement is contracted. PREREQ: Permission of Program Head and Division Manager.

Business Machine Technology—Two Year Program

Associate of Applied Science Degree

Instructors: Dan Cadwell, Paul Jansson, Don Jones

The program in Business Machine Technology has been developed to give the student the basic knowledge to perform as an entry level technician. The student will be qualified to make maintenance inspections, make proper mechanical and electronic adjustments and/or repairs, and do general shop work. The student will be trained in electronics and mechanical principles, with specialized training on mini-computers, typewriters, word processing, electronic cash registers and other business machines.

1st Year

FRESHMAN YEAR

SEM 1st 16 16

Business Machine Technology BM 155, 156 . . . . . 9 9
Basic Electronic Theory BM 157-158 . . . . . . . . . 4 4
Communication Skills BM 111-112 . . . . . . . . . . . . . . 3 3
Customer Relations BM 113 . . . . . . . . . . . . . . . . . . 2 2

TOTAL 16 16

SOPHOMORE YEAR

Advanced Bus Machine Tech BM 255-256 . . . . . 11 11
Advanced Electronic Theory BM 271-272 . . . . . 7 7

TOTAL 18 18

Course Offerings

See page 20 for definition of course numbering system

BM BUSINESS MACHINE TECHNOLOGY

BM 111-112 COMMUNICATION SKILLS (3-0-3)(F/S). Objective to enable students to use language effectively as a tool for the Office Machine Industry; i.e., effective writing and verbal communication for sales and technical repair. (3 clock hours per week).

BM 113 CUSTOMER RELATIONS (2-0-2)(S). Directed toward the tact and methods necessary to communicate with the public. (2 clock hours per week).

BM 155 BUSINESS MACHINE TECHNOLOGY (5-17-9)(F). This is a hands on theory/lab course in which the student is taught basic mechanical applied theory. (22 clock hours per week).

BM 156 BUSINESS MACHINE TECHNOLOGY (5-15-9)(S). This is a hands on theory/lab course in which the student is taught basic concepts of business machine repair. (20 clock hours per week).

BM 157-158 BASIC ELECTRONIC THEORY (4-1-4)(F/S). Deals with basic electronics including properties of electronic components (5 clock hours per week).

BM 255-256 ADVANCED BUSINESS MACHINE TECHNOLOGY (7-17-11)(F). This is a hands on theory/lab course in which the student is taught basic concepts of business machine repair including a special emphasis in troubleshooting techniques. Shop management, retail selling, computer programming and related math are also included. (24 clock hours per week) PREREQ: BM 155, 156, 157.

BM 271-272 ADVANCED ELECTRONIC THEORY (7-0-7)(F). This course is a study of digital electronics, semiconductors, microprocessors. (7 clock hours per week).

Child Service/Management

Day Care Assistant—Nine Month Program

Certificate of Completion

Instructors: Peg Gourley, Bonnie Noonan

This program is planned for people interested in working with children as an assistant in day care centers, nurseries, private kindergartens, child development centers and recreation programs for young children.
Day Care Supervisor—Two Year Program
Associate of Applied Science Degree

Graduates will be trained to teach in or operate a preschool program which provides for physical care, emotional support and social development of children in groups.

This two-year course will provide students with the opportunity to direct children's play and learning, provide meals, supervise staff, and manage resources in nursery school settings and day care centers. Completion of the Child Care Assistant program is a prerequisite to the supervisor level program.

Day Care Assistant

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Child Development CC 101</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Introduction to Child Development CC 151</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Communication Skills CC 111-112</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Health and Care of the Young Child CC 141</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Intro to Occupational Relations CC 161</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Curriculum of the Young Child CC 171-172</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Child Care Laboratory CC 181-182</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Contract Field Experience in Early Childhood PRG CC 125-126</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Plan and Evaluation of Laboratory Experience CC 135-136</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>18</td>
<td>17</td>
</tr>
</tbody>
</table>

Day Care Teacher/Supervisor

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Child Care CC 255</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Intro to Kindergarten Curriculum CC 256</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Infant Care CC 257</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Child Care Center Management CC 232</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Fam &amp; Comm Involvement with Child CC 252</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Occupational Relationships CC 261</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Feeding Children CC 241-242</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Child Care Center Supervision CC 201-202</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Contract Practice in Early Child Supervision CC 225-226</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>15</td>
<td>18</td>
</tr>
</tbody>
</table>

Course Offerings

See page 20 for definition of course numbering system

CC CHILD CARE STUDIES

CC 101-151 INTRODUCTION TO CHILD DEVELOPMENT (3-0-3)(FS). Basic principles of child growth and development, the individual needs of preschool children, their language development, understanding their behavior and techniques of guidance and discipline.

CC 111-112 COMMUNICATION SKILLS (3-0-3)(FS). Objective: to enable students to use language effectively as a tool for logical thinking, problem solving, technical writing, and speaking required in their major field of training.

CC 125-126 CONTRACTED FIELD EXPERIENCE IN EARLY CHILDHOOD PROGRAMS (0-4-3)(FS). Individual contract arrangement involving students, instructor and cooperating community agency to gain practical experience in off-campus settings. The student will visit, observe, and participate in community child care settings.

CC 135-136 PLANNING AND EVALUATION OF LABORATORY EXPERIENCE (2-0-2)(FS). Classroom lecture and discussion to include lab observation and records, methods of curriculum planning and evaluation, activity plans, classroom objectives, and staff performance and relations.

CC 141 HEALTH AND CARE OF THE YOUNG CHILD (3-0-3)(FS). Safety practices, basic nutrition, general health education, identification of treatment and prevention of common childhood diseases as applied to children in child care centers. Also includes maintenance of teachers health, red cross multimedia first-aid emergency training.

CC 161 INTRODUCTION TO OCCUPATIONAL RELATIONS (2-4-2)(S). Instruction and practical application in resume writing, job applications, interviewing techniques and job search. The course will include: Personal money management, credit and management of personal records and files.

CC 171-172 CURRICULUM OF THE YOUNG CHILD (3-0-3)(FS). Curricula media suitable for preschool children. Includes theories of teaching curriculum subjects; the need for a curriculum in nursery school; and specific information, materials and the opportunity to use them in the following areas: art, story telling, music, environmental science, beginning number and letter recognition.

CC 181-182 CHILD CARE LABORATORY (0-12-3)(FS). Observation and participation in the laboratory preschool. Student will serve as aide and assistant teacher.

School of Vocational Technical Education

Culinary Arts Program

Certificate of Completion—1 Year
Associate of Applied Science—2 Years

Instructors: Vernon Hickman, CWC, Julie Kulin, CWC, CCE, Manley Slough, CEC, Bonnie Sumner

The purpose of the Culinary Arts Program is to provide basic training and education for cooks, apprentice chefs, and managers. The curriculum offers students an opportunity to:

- Learn and effectively practice basic and advanced technical skills in food preparation and service.
- Understand the principles of food identification, nutrition and food, and beverage composition.
- Acquire basic supervisory skills to better utilize human and physical resources in food service operations.
- Gain experience in the proper use and maintenance of professional food service equipment.
- Become familiar with the layout and work flow of professional kitchens and bakeshops. Gain appreciation for the history, evolution and international diversity of the culinary arts.
- Develop a personal sense of professionalism necessary for working successfully in the food service industry.

The core of the Culinary Arts Program curriculum at Boise State University is the hands-on teaching of cooking and baking skills as well as the theoretical knowledge that must underlie competency in both fields. The objective is to not only teach students to work in the kitchen, but how it functions. Related to our mission of professional training are the courses that complete a food service education: table service, wines, bar management, menu, facilities planning, cost controls, supervisory development, storeroom and stewarding.
School of Vocational Technical Education

Upon enrollment in the program, the student will have the opportunity to pursue a one-year Certificate of Completion, or a two-year Associate of Applied Science degree in Culinary Arts. A minimum grade of 'C' is required in all course work to receive a Certificate of Completion or an Associate of Applied Science degree.

**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 102</td>
<td>Culinary Skills Development</td>
<td>3</td>
</tr>
<tr>
<td>CA 103</td>
<td>Sanitation, Safety, Health</td>
<td>2</td>
</tr>
<tr>
<td>CA 104</td>
<td>Introductory Baking</td>
<td>2</td>
</tr>
<tr>
<td>CA 105</td>
<td>Cost Controls</td>
<td>1</td>
</tr>
<tr>
<td>CA 109</td>
<td>Culinary French</td>
<td>0</td>
</tr>
<tr>
<td>CA 112</td>
<td>Introductory Hot Foods</td>
<td>3</td>
</tr>
<tr>
<td>CA 113</td>
<td>Pantry, Basic Garde Manger</td>
<td>3</td>
</tr>
<tr>
<td>CA 114</td>
<td>Communications Skills</td>
<td>3</td>
</tr>
<tr>
<td>CA 126</td>
<td>Hospitality Purchasing</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td></td>
<td><strong>19</strong></td>
</tr>
</tbody>
</table>

**SECOND SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 115</td>
<td>Dining Room Procedures</td>
<td>2</td>
</tr>
<tr>
<td>CA 116</td>
<td>Meat Identification &amp; Fabrication</td>
<td>1</td>
</tr>
<tr>
<td>CA 118</td>
<td>Charcuterie (Sausage Making)</td>
<td>1</td>
</tr>
<tr>
<td>CA 119</td>
<td>Supervisory Development</td>
<td>2</td>
</tr>
<tr>
<td>CA 122</td>
<td>Fish Cookery</td>
<td>1</td>
</tr>
<tr>
<td>CA 123</td>
<td>Communication Skills II</td>
<td>3</td>
</tr>
<tr>
<td>CA 124</td>
<td>Kitchen Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>CA 127</td>
<td>American Regional/A La Carte</td>
<td>2</td>
</tr>
<tr>
<td>CA 262</td>
<td>Occupational Relations</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td></td>
<td><strong>19</strong></td>
</tr>
</tbody>
</table>

**THIRD SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 207</td>
<td>Wine Appreciation</td>
<td>1</td>
</tr>
<tr>
<td>CA 212</td>
<td>International &amp; Oriental Cuisine</td>
<td>1</td>
</tr>
<tr>
<td>CA 214</td>
<td>Kitchen Laboratory</td>
<td>6</td>
</tr>
<tr>
<td>CA 227</td>
<td>Advanced/Classical Baking</td>
<td>2</td>
</tr>
<tr>
<td>CA 228</td>
<td>Advanced Food &amp; Beverage Cost Controls</td>
<td>2</td>
</tr>
<tr>
<td>CA 229</td>
<td>Food &amp; Beverage Operation Planning</td>
<td>2</td>
</tr>
<tr>
<td>CA 230</td>
<td>Cake Decorating</td>
<td>1</td>
</tr>
<tr>
<td>CM 111</td>
<td>Funds of Speech</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**FOURTH SEMESTER**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA 213</td>
<td>Advanced Garde Manger</td>
<td>1</td>
</tr>
<tr>
<td>CA 215</td>
<td>Classical Cuisine</td>
<td>1</td>
</tr>
<tr>
<td>CA 224</td>
<td>Kitchen Laboratory</td>
<td>6</td>
</tr>
<tr>
<td>CA 226</td>
<td>Advanced Culinary Skills</td>
<td>2</td>
</tr>
<tr>
<td>CA 231</td>
<td>Banquet &amp; Catering Operation</td>
<td>2</td>
</tr>
<tr>
<td>CA 232</td>
<td>Culinary Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>Approved Electives: Two required:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GB 101</td>
<td>Intro to Business</td>
<td>3</td>
</tr>
<tr>
<td>EC 202</td>
<td>Principles of Economics-Micro</td>
<td>3</td>
</tr>
<tr>
<td>CM 112</td>
<td>Reasoned Discourse</td>
<td>3</td>
</tr>
<tr>
<td>MM 250</td>
<td>Intro Microcomputers in Retailing</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td></td>
<td><strong>19</strong></td>
</tr>
</tbody>
</table>

**Course Offerings**

See page 20 for definition of course numbering system

**CA CULINARY ARTS**

**CA 102 CULINARY SKILLS DEVELOPMENT (3-2-3)(F/S).** During this introduction to the fundamental concepts, skills and techniques of basic cookery, special emphasis is given to the study of ingredients, cooking theories and procedures. Basic cooking methods stressed and practiced including: sautéing, broiling, roasting, poaching, simmering, braising, pan frying, deep fat frying, stewing and fricasseeing.

**CA 103 SANITATION, SAFETY & HEALTH (2-0-2)(F/S).** Theory and practice of food and environmental sanitation in a food production area are stressed, with attention to food-related diseases and their origins. The sanitation course has been reviewed for compliance and approved by the Federal Food and Drug Administration. Students conduct a sanitation inspection of one of the Culinary Arts Programs facilities in their production areas.

**CA 104 INTRODUCTORY BAKING (2-1-2)(F/S).** This course gives instruction in the fundamentals of baking science, terminology, equipment, technology, ingredients, weights and measures, formula conversion, and storage.

**CA 105 COST CONTROL (1-0-1)(F/S).** An introduction to the food service cost control method, procedures and math.

**CA 109 CULINARY FRENCH (1-0-0)(F/S).** Explanations of basic culinary French terminology and menu phrases.

**CA 112 INTRODUCTORY HOT FOODS (3-2-3)(F/S).** Basic menu items such as soups, sauces, stocks, vegetables, and entrees are prepared. Fundamental concepts and techniques of food preparation are first demonstrated by the instructor and then practiced by the students.

**CA 113 PANTRY, BASIC GARDE MANGER (3-2-3)(F/S).** A survey course in the fundamentals of pantry, basic garde manger, and breakfast cookery. Students are instructed in the proper techniques and procedures for preparing a variety of lunch and dinner salads and salad dressings, hot and cold sandwiches, quiçhes, garnishes, canapes, marinades, tea and fancy sandwiches, and hot and cold appetizers.

**CA 114 COMMUNICATION SKILLS (3-0-3)(F/S).** Study of terms, attributes, and the mechanics of language for logical thinking, speaking, and writing. Training includes an introduction to inference using both verbal and symbolic techniques. Industrial applications include organization and delivery of technical reports in written and oral forms, business correspondence, and resume preparation.

**CA 115 DINING ROOM PROCEDURES (2-0-2)(F/S).** This basic course in dining room and supervision covers equipment, personnel responsibility, organization, customer relations, sanitation, table arrangements and set-ups. Service techniques for American table service are practiced. Basic coloured service is explained.

**CA 116 MEAT IDENTIFICATION AND FABRICATION (1-0-1)(F/S).** Instructors demonstrate the cutting of meat and poultry into fabricated units and explains grading, quality and yield.

**CA 118 CHARCUTERIE (SAUSAGE MAKING) (1-0-1)(F/S).** This course teaches and gives understanding through lecture, demonstration and hands-on in all phases of sausage making. For total utilization of meat by-products, students prepare forcemeats, pates and sausage.

**CA 119 SUPERVISORY DEVELOPMENT (2-0-2)(F/S).** Basic principles of effective supervision, including human relations, motivation, communications, proper training principles, interviewing, staffing, and discipline are covered. Stewarding functions and responsibilities of personal personnel scheduling, cleaning scheduling and purchasing services are.

**CA 122 FISH COOKERY (1-0-1)(F/S).** Affords students the opportunity to actually identify, store, rotate, issue and learn the disciplines that must be practiced to keep quality purchased fish, crustaceans and mollusks fresh. Students butcher fish, lobster, crabs, and practice the basic fundamentals of fish cookery. They also prepare stocks, soups and foundation sauces, and learn to highlight a variety of seasoned specialties.

**CA 123 COMMUNICATION SKILLS II (3-0-3)(F/S).** Study of terms, attributes, and the mechanics of language for logical thinking, speaking, and writing. Training includes an introduction to inference using both verbal and symbolic techniques. Industrial applications include organization and delivery of technical reports in written and oral forms, business correspondence, and resume preparation.

**CA 124 KITCHEN LABORATORY (2-2-2)(F/S).** This lab will be used for the following classes: CA 115, CA 116, CA 118, and CA 122.

**CA 126 HOSPITALITY PURCHASING (2-0-2)(F/S).** Management concepts and specific techniques in purchasing commodities essential to successful purchasing in hospitality operations.

**CA 127 AMERICAN REGIONAL A LA CARTE (1-4-2)(F/S).** This course explores the history and preparation of American specialties. Items prepared in the kitchen will follow established American cuisine preparation standards based on the region studies. Items served A La Carte on a daily basis.

**CA 207 WINE APpreciATION (1-0-1)(F/S).** The wines of France, Italy, Germany, and America are discussed. Students learn through actual tasting of the wines studied. History, label interpretation, vocabulary, wine laws, and various methods of processing are covered in the lectures. Majors only.

**CA 212 INTERNATIONAL AND ORIENTAL CUISINE (1-0-1)(F/S).** Students research and prepare menus representative of different countries and cultures. Cuisines emphasized are Middle Eastern, Spanish, South American, German and Austrian, Swiss, Scandinavian, Italian, Belgian, and Dutch. Students prepare several different menus based on actual Chinese (Szechwan, Cantonese, Peking, Hunan), Japanese and Polynesian recipes.

**CA 213 ADVANCED GARDE MANGER (1-0-1)(F/S).** Students progress to advanced instruction in cold food preparation and presentation techniques. Charcuterie, specialty canapes, hors d'oeuvres, appetizers, pates, galantines, chaud-froids, terrines, tallow and ice carving, aspics, mousses, cold sauces, vegetable carving, and food decoration are all demonstrated and prepared.

**CA 214 KITCHEN LABORATORY (0-24-6)(F/S).** This laboratory will be used for all theory classes in third semester.

**CA 215 CLASSICAL CUISINE (1-0-1)(F/S).** Advanced and sophisticated classical culinary preparation, following the principles and techniques of Auguste Escoffier. Emphasis is on French cuisine. Students prepare a complete menu with special consideration of cooking techniques, timing and presentation. History and terms relative to classical foods are discussed. Students plan, prepare, and serve a graduation dinner.

**CA 224 KITCHEN LABORATORY PREPARATION (0-24-6)(F/S).** This laboratory will be used for all Theory classes in fourth semester.
CA 226 ADVANCED CULINARY SKILLS (1-4-2/F/S). Emphasis is given to fine-tuning basic competencies learned in previous courses. These competencies are used in the preparation of A La Carte menu items as students follow the traditional European brigade system and work all the stations in the kitchen on a weekly rotation. Production of the highest quality product through proper techniques, presentation and service is stressed. PREREQ: CA 102.

CA 227 ADVANCED/CLASSICAL BAKING (1-4-2/F/S). Techniques are practiced in the production puff pastry desserts, sponge cakes, specialty breads and pastries. Buffet centerpieces are made from pastillage, marzipan, and chocolate. A variety of kitchen desserts are implemented. PREREQ: CA 104.

CA 228 ADVANCED FOOD AND BEVERAGE COST CONTROLS (1-4-2/F/S). Coursework emphasizes an understanding of the complexities of controlling the primary resources of hospitality operations—food, beverage, labor and sales income. Control systems developed are reviewed. PREREQ: CA 105.

CA 229 FOOD AND BEVERAGE OPERATIONAL PLANNING (2-0-2/F). Basic principles and concepts of menu planning, menu formats and layout are studied in detail with regard to the eating habits and tastes of social groups. Legal requirements affecting of operations. Pricing and control of menu items, designing a salable menu, and menus as a management and merchandising tool are defined. The various types of establishments, such as full service, quick-service, bar, buffets, and catering are discussed. PREREQ: CA 102.

CA 230 CAKE DECORATING (1-0-1/F/S). The basic theory in professional cake decorating, frosting and designing wedding, anniversary, birthday, bar mitzvah, and other celebration cakes are demonstrated. Decorative borders, flowers, figure piping and tube decorating techniques are demonstrated. Students will become familiar with the extensive array of decorating tips.

CA 231 BANQUET & CATERING OPERATION (1-0-1/F/S). The course is divided into five sections: overview, sales, functions, and menus, execution and options. Considerable attention is given to organizing, supervising, and servicing for expanding catering operations and increasing profit.

CA 232 CULINARY NUTRITION (2-0-2/F/S). This course discusses a practical application of nutrition in the foodservice industry. Understanding food sources of nutrients, functions and methods to minimize loss of nutrients in food service operations is a primary objective.


Dental Assistant—Nine Month Program
Certificate of Completion
Instructors: Dr. Richard Gunnell, Bonnie Imbs, Jean Macinnis

The Dental Assisting Program consists of Dental Assistant Theory, Dental Laboratory instruction and Clinical Experience. Boise State University works closely with the Dental Advisory Board in planning and promoting the program and curriculum. Changes may be made at any time to take advantage of advances in the Dental profession. Entrance requirements: High School Diploma or Equivalency Certificate, personal interview, aptitude testing. Typing is a prerequisite. The dental assistant courses are taught by dental assistant instructors and guest dental lecturers. The program in Dental Assisting is accredited by the Commission on Dental Accreditation, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education. Students are eligible to take the Certification Examination upon completion of this course.

Course Offerings
See page 20 for definition of course numbering system

Dental Assisting
DA 101-102 DENTAL LABORATORY (2-10-4/F/S). Provides practical laboratory experience in handling dental materials and instruments.

Dental Assisting Clinical Experience
DA 106 DENTAL ASSISTING CLINICAL EXPERIENCE (0-16-4/S). Supervised chairside assisting experience in private dental offices and clinics.

Dental Assisting Radiology
DA 104 DENTAL RADIOLOGY (3-5-4/F). Provides dental assisting students the opportunity to become skilled in dental x-ray procedures with a heavy emphasis on safety.

Dental Assisting Technical Experience
DA 108 DENTAL OFFICE MANAGEMENT (2-0-2). Covers the fundamentals of business practices related to dentistry.

Dental Assisting Public Health
DA 109 PUBLIC HEALTH AND DENTAL HYGIENE (2-0-2). The class work deals with preventive dentistry and patient education.

Communication Skills
DA 111-112 COMMUNICATION SKILLS (3-0-3/F/S). Enables the students to use our language effectively as a tool for logical thinking, problem solving, technical writing and speaking required in their major field of preparation.

Dental Assisting Theory
DA 151-152 DENTAL THEORY (6-0-6/F), (6-6-6/S). Lectures cover the basic dental sciences and dental specialties.

Certification:
Certificate of Completion

School of Vocational Technical Education

Drafting Technology—Two Year Program
Associate of Applied Science Degree
Instructors: Danny Benton, Ralph Burkey, Tom Olson, Don Watts

This curriculum is organized to provide engineering departments, government agencies, consulting engineers and architectural firms with a technician well versed in the necessary basic skills and knowledge of conventional and computer aided drafting. The student is required to develop and maintain the same standards and techniques used in firms or agencies that employ drafters and technicians.

FIRST SEMESTER
Drafting Lab and Lecture DT 101..........................avidary Planning DT 102.......................... 4
Fundamentals of Computer Drafting DT 109.................. 1
Communication Skills DT 111.......................... 3
Mathematics DT 131.......................... 4
Applied Physics DT 141.......................... 3
*Elective (General).......................... 3
TOTAL 18

SECOND SEMESTER
Drafting Lab and Lecture DT 102.......................... 4
Communication Skills DT 112.......................... 3
Introduction to Surveying DT 122.......................... 2
Mathematics DT 132.......................... 3
Applied Physics DT 142.......................... 3
Fundamentals of Computer Design DT 110.......................... 1
TOTAL 16

THIRD SEMESTER
Drafting Lab and Lecture DT 201.......................... 4
Descriptive Geometry & Development DT 221.......................... 3
Applied Mathematics DT 231.......................... 3
Statics DT 241.......................... 4
Graphics DT 261.......................... 1
Occupational Relations DT 262.......................... 2
TOTAL 17

FOURTH SEMESTER
Drafting Lab and Lecture DT 202.......................... 4
Technical Report Writing DT 222.......................... 2
Applied Mathematics DT 232.......................... 3
Specialized Graphics DT 263.......................... 2
Strength of Materials DT 242.......................... 4
*Elective (General).......................... 3
TOTAL 18

All courses require a minimum 'C' grade to receive the Associate's Degree.

*Approved General Electives
Introduction to Business GB 101.......................... 3
Fundamentals of Speech Communication CM 111.......................... 3
Listening CM 131.......................... 3
Introduction to Sociology SO 101.......................... 3
Principles of Economics-Micro EC 202.......................... 3

157
School of Vocational Technical Education

Course Offerings

See page 20 for definition of course numbering system

DT DRAFTING TECHNOLOGY

DT 101 DRAFTING LABORATORY AND LECTURE (1-14-1f). Mechanical drafting with basic drafting techniques, standards, methods, and basic block and schematic diagrams for electronics and piping with introduction to computer-assisted drafting.

DT 102 DRAFTING LABORATORY AND LECTURE (1-14-1s). Architectural drafting includes facility planning, remodeling and details for commercial buildings. PREREQ: DT 101.

DT 109 FUNDAMENTALS OF COMPUTER-AIDED DRAFTING AND DESIGN (1-1-1f/S). This course is an introduction to Computer-Aided Drafting and Design Systems. It will prepare students for keyboarding, to operate the systems and understand the applications of computer graphics to industry standards. Students will learn to use an interactive computer graphics system to prepare drawings on a CRT. They will store and retrieve drawings and related information on a magnetic disc and produce commercial quality copies using a computer-driven plotter. COREQ: Familiarity with basic drafting procedures and standards.

DT 110 ADVANCED COMPUTER-AIDED DRAFTING AND DESIGN (1-1-1f/S). This course provides the student with skills in three-dimensional CAD drafting, developing shape files and menus, designing, and illustrations. PREREQ: DT 109.

DT 111-112 COMMUNICATION SKILLS (3-0-3/Xf/S). Study of terms, attributes, and the mechanics of language for logical thinking, speaking, and writing. Training includes an introduction to inference using both verbal and symbolic techniques. Industrial applications include organization and delivery of technical reports in written and oral forms, and business correspondence.

DT 122 SURVEYING (2-2-2s). Introduction to surveying, methods and computation. Required field work with emphasis on compiling data and office computation. PREREQ: or COREQ: DT 132.

DT 131 MATHEMATICS (4-1-4)/f/S). Fundamentals of algebra with review of arithmetic and applications of applied problems. Arithmetic operations with fractions, decimals, percent. Basic algebraic operations with signed numbers, powers, solutions of simple equations, factoring operations with algebraic expressions. One year high school algebra with satisfactory grade or equivalent required.

DT 132 MATHEMATICS (3-0-3)/f/S). Plane geometry, basic coordinate geometry, spatial geometry, and basic trigonometry. This course includes many applied problems, related to drafting technology. These problems require application of the fundamentals acquired in DT 131, trigonometry and geometry. PREREQ: DT 131 or equivalent.

DT 141 APPLIED PHYSICS (3-0-3)/f). Course covers properties of solids, liquids and gases with emphasis on introduction to strength of materials. Also temperature and effects of heat, heat transfer and change of state of matter are covered. Emphasis placed on problem solving. One year high school algebra with satisfactory grade or equivalent.

DT 142 APPLIED PHYSICS (3-0-3)/s). This course covers vectors and graphic methods with emphasis on forces exerted on structural members in a static position; force and motion; work energy and power and basic machines. COREQ: DT 132 or equivalent.

DT 201 DRAFTING LABORATORY AND LECTURE (1-14-4). Civil drafting, mapping, highway curves and earthwork using conventional and computer drafting techniques. PREREQ: DT 122, 132, 102.

DT 202 DRAFTING LABORATORY AND LECTURE (1-14-4)/s). Structural drafting terminology, structural and reinforcing steel specifications and drawing practice with manual and computerized methods. PREREQ: DT 201, 221.

DT 221 DESCRIPTIVE GEOMETRY AND DEVELOPMENT (3-1-3)/f). Theory and practice of coordinate projection applied to the solution of properties of points, lines, planes and solids with practical drafting applications.

DT 222 TECHNICAL REPORT WRITING (2-0-2)/s). Objective: to enable students to meet on-the-job standards of report preparation in the field of drafting.

DT 231 APPLIED MATHEMATICS (3-1-3)/f). Solution of practical problems involving concepts from DT 131 and DT 132 Math. PREREQ: DT 132.

DT 232 APPLIED MATHEMATICS (3-1-3)/s). Application and expansion of mathematics, statics and strength of materials. Related to lab projects. PREREQ: DT 231.

DT 241 STATICS (4-0-4)/f). Introductory course in statics with emphasis on analysis of simple structures. PREREQ: DT 132.


DT 261 GRAPHICS (1-1-1)/f). Introduction to graphic presentation methods used in industry, such as isometric and perspective rendering, charts, graphs and pictorial representations. (Open to non-drafting technology majors—space permitting.

DT 262 OCCUPATIONAL RELATIONS (2-0-2)/f). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.

DT 263 SPECIALIZED GRAPHICS (2-1-2)/s). An intensive study of perspective and rendering techniques as related to specific occupancy or field. Emphasis is placed on introduction to strengths of materials, including mechanical and electronic methods. Lecture-Laboratory. PREREQ: DT 261 (Open to non-drafting technology majors-space permitting).

Electrical Lineworker—Nine Month Program

Certificate of Completion

Instructor: Gerald McKie

The Electrical Lineworker Program provides the student with the best and most complete basic preparation possible in overhead and underground construction and maintenance procedures. Centering around a basic program of performance based objectives, instructional materials, and field experiences, the program provides the student with the necessary skills and knowledge needed as a firm foundation in this rapidly advancing field.

In the laboratory experience with equipment such as transformers, oil circuit breakers, switches, materials and pole line hardware, hot line tools, test equipment, bucket truck, line truck, trenched/backhoe, and related equipment components, the provides the student with “hands-on” experience permitting further and more concentrated advancement in these skilled areas.

The program is designed to produce a highly skilled, well-informed entry level lineworker who is familiar with use of all tools, materials, and equipment of the trade. The areas of first aid, personal safety, and occupational safety are stressed as integral parts of each area of the craft.

SUBJECTS Fall Spring

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Lineworker Lab EL 101-102</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Electrical Lineworker Basics EL 151-152</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Design/Construction EL 161-162</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Occupational Relationships EL 262</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>15</td>
<td>17</td>
</tr>
</tbody>
</table>

Course Offerings

See page 20 for definition of course numbering system

EL ELECTRICAL LINEMAN

EL 101-102 ELECTRICAL LINEMAN LABORATORY (0-20-5)/f/S). This course provides actual "job type" experience for the student. Course content includes live climbing experiences using ropes and rigging, pole setting and removal with suitable guys and anchors including installation of transformers and street lighting, construction and maintenance of underground distribution networks, troubleshooting all systems including hot stick care and use, and preventative maintenance on associate systems or equipment.

EL 151-152 ELECTRICAL LINEMAN BASICS (5-0-5)/f/s). This course provides the student with the basics of electrical theory, power generation, materials identification and application, overcurrent and protective devices, related equipment application, and personal/occupational safety.

EL 161-162 ELECTRICAL LINEMAN SYSTEMS DESIGN/CONSTRUCTION (5-0-5)/f/s). This course emphasizes electrical power systems, power systems designing and construction techniques, transformer theory, design of transformers and their construction and transmission networks.

EL 262 OCCUPATIONAL RELATIONS (2-0-2)/f/s). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.

Electronics Service Technology—Two Year Program

Associate of Applied Science Degree

Instructors: Doug Carlton, Jeff Chance, Bob Dodson, Stan Sluder, James Stack

The graduate of this program is prepared to enter the electronics industry with a broad-based general knowledge in electronic equipment repair and maintenance. This technician will be capable of entry-level work on the latest equipment that incorporates analog and digital circuits. The electronic technician from this program is able to specialize in any area of electronics that the employer desires.
The Electronics Technology Program prepares students as entry level electronic engineers, scientists, or manufacturing specialists involved in electronic equipment. Amplifiers, oscillators, comparators, integrators and differentiators, filters and precision rectifiers. PREREQ: ES 172.


EXTENDED PROGRAMS OFFERINGS

The following Extended Programs offerings are not required in the Electronic Service Technology AAS degree program. These courses are designed for upgrading of individuals employed in the Electronic Service Industry. PREREQ: Minimum of two years employment as an Electronic Service Technician, or PERM/INST.

Course Offerings


ES 295 DIGITAL CONCEPTS WITH INTRO MICROPROCESSORS (1-4-2). A laboratory oriented digital electronics course covering the areas of combinational logic, sequential logic, digital-to-analog and analog-to-digital conversion and introductory microprocessors. Logic troubleshooting will be emphasized throughout the course and troubleshooting instruments and techniques will be introduced.

Electronics Technology—Two Year Program

Associate of Applied Science Degree

Instructors: Doug Carlton, Jeff Chance, Bod Dodson, Stan Sluder, James Stack

The Electronics Technology Program prepares students as entry level electronic engineering technicians. These individuals may desire employment leading to work as team members associated with engineers, scientists, or manufacturing specialists involved in electronic work.

School of Vocational Technical Education

### Course Offerings

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st Semester</th>
<th>2nd Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>ES 106 ELECTRONICS LABORATORY I (0-15-3)(F/S). Experiments in direct and alternating current, using passive components (resistors, capacitors and inductors). The use of standard test equipment used by an electronics technician.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 122 ELECTRONIC THEORY (5-0-5)(F/S). Theory of direct and alternating currents in passive circuits. Circuit analysis of RLC configurations in both ac and dc applications.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 232 INTRODUCTION TO DIGITAL ELECTRONICS (2-0-2)(F/S). Introduction to binary number systems, digital coding, basic logic gates and logic families.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 133 ELECTRONICS MATHEMATICS (5-0-5)(F/S). The number system, algebra and algebraic equations, exponential and logarithmic equations, vectors and graphing.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 163 DIGITAL SYSTEMS I (2-0-2)(F/S). Basic TTL and MOS gate operations, combinational logic circuits, Boolean Algebra, fan-out specifications, propagation delay and operating speed. Basic sequential logic operations, R-S and JK flip flop fundamentals. PREREQ: ES 122.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 172 LINEAR SYSTEMS I (5-0-5)(F/S). Ac and dc properties of diodes and transistors. Bipolar junction transistors, junction field effect transistors and MOS devices. Operational circuits employing diodes and transistors. Transistor amplifier biasing, load line computations and gain determinations. PREREQ: ES 122. COREQ: ES 172.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 173 LINEAR SYSTEM LABORATORY I (0-15-3)(F/S). Laboratory exercises to complement ES 172 and ES 163. PREREQ: ES 106.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 182 APPLIED MATHEMATICS (3-0-3)(F/S). The mathematical analysis of circuits introduced in ES 172. COREQ: ES 172.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 188 COMPUTER LITERACY FOR ELECTRONIC TECHNICIANS (2-0-2)(F/S). An introductory computer course dealing in the use of the computer as a writing and computational tool. The student will be introduced to word processing and the BASIC computer programming language. Includes program writing and structuring techniques, software troubleshooting and documentation.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 206 ELECTRONICS LAB (0-15-3). Combined electronics lab covering circuits and equipment used in ES 237, ES 214, ES 281 and ES 232. Lab will stress hands-on exposure to circuits and equipment and will provide various troubleshooting techniques to be used in equipment repair.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 214 DIGITAL SYSTEMS II (3-0-3)(F/S). Introduction of sequential logic, flip-flops, converters, decoders, arithmetic logic systems and comparators, parity generators and checkers. PREREQ: ES 163.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 232 TELECOMMUNICATION SYSTEMS I (2-0-2)(F/S). Introduction to electronic communication systems. Types of information to be conveyed by a communication channel. Role of receiver and transmitter. Generation and reception of radio waves. Use of radio waves and light waves as information carriers.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 237 LINEAR SYSTEMS II (5-0-5)(F/S). Study of operational amplifiers and other linear circuits. Operational amplifier theory and OP AMP circuits commonly found in electronic equipment. Amplifiers, oscillators, comparators, integrators and differentiators, filters and precision rectifiers. PREREQ: ES 172.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 264 ECONOMICS OF ELECTRONIC SERVICE MANAGEMENT (3-0-3)(F/S). Study of electronic shop economics, practices and standards. Includes customer and employee relations, management skills, and invoicing, warranty claims and procedures.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 274 CET CERTIFICATION (1-0-1)(F/S). Study for and completion of requirements for Certified Electronics Technician examination. Associate Level Exam preparation.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 275 DIGITAL SYSTEMS III (3-0-3)(F/S). Study of various logic families. Data Conversion, analog-to-digital and digital-to-analog conversion, digital data transmission and reception, memory devices and systems. PREREQ: ES 264.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 277 MICROPROCESSOR SYSTEMS (4-0-4)(F/S). Study of microprocessor functions based on 6800 series microprocessor. Number systems, microprocessor basics, computer arithmetic, programming, central processor unit structure, and interfacing, Microcontrollers, 16 and 32 bit microprocessor overview. PREREQ: ES 214.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 281 ELECTRO-MECHANICAL SYSTEMS (3-0-3)(F/S). Electronic measurement and detection through the use of electronic transducer devices. Mechanical control through the use of electro-mechanical actuators and devices. Photoelectric sensors, thermal sensors, displacement sensors. Solenoids, relays, stepper motors and servo actuators. PREREQ: ES 264.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 285 TELECOMMUNICATION SYSTEMS II (4-0-4)(F/S). Continuation of ES 232. Noise in communication systems. Propagation, antennas and transmission lines. Pulse modulation techniques, data communications and standards. Digital signal communication methods, telephone and satellite communications. PREREQ: ES 232.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>ES 288 ELECTRONICS LAB (0-15-3)(F/S). Combined electronics lab covering circuits and equipment used in ES 275, ED 277, ES 285 and ES 281. Hands-on exposure with emphasis on troubleshooting approaches.</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>TOTAL 18 18</td>
<td>TOTAL 18 19</td>
<td></td>
</tr>
</tbody>
</table>
School of Vocational Technical Education

Solid State Devices I ET 172 .................................................. 3
Solid State Devices Lab I ET 173 .................................... 1
TOTAL 18 18

SOPHOMORE YEAR

Linear Systems Lab ET 201 .................................................. 1
Telecommunications Lab ET 202 .................................... 1
Calculus I-II ET 231-232 .................................................. 3
Instrumentation ET 241 ....................................................... 2
Instrumentation Lab ET 242 .................................................. 1
Linear Systems ET 251 ........................................................ 3
Telecommunications Systems ET 252 .................................. 3
Occupational Relations ET 262 ........................................... 3
Digital Systems II ET 264 ................................................... 2
Digital Systems Lab II ET 265 ............................................ 1
Solid State Devices II ET 273 .............................................. 2
Solid State Devices Lab II ET 274 ...................................... 1
Digital Systems III ET 275 ................................................... 2
Digital Systems Lab III ET 276 ........................................... 1
Microprocessor Systems ET 277 ....................................... 2
Microprocessor Systems Lab ET 278 .................................... 1
*Occupational Electives ...................................................... 4
TOTAL 18 17

Total Number of Credit Hours: 71

* Elective chosen from following course offerings to fulfill Occupational Area core requirements. These selections are also chosen with the intent of fulfilling the general education requirements for the associate of applied science degree: CB 101; EC 201, 202; AC 205, 206; CB 202; IS 310; CM 111, 131, 231, 251; MG 301; LS 102; P 161.

Semiconductor Technology—Two Year Program

Associate of Applied Science Degree

The successful completion of ET 131-132 or M 111, or the equivalent is prerequisite for this major.

<table>
<thead>
<tr>
<th>Course Offering</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST YEAR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Physics</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>PH 101, 102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Chemistry</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>C 131</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry Lab C</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>C 132</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced Electronics Math ET 231-232</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Communication Skills ET 111-112</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Intro to Digital Electronics ET 161</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Intro to Integrated Circuit Industry ET 181</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Intro to Integrated Circuit Processing ET 182</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Integrated Circuit Processing I ET 183</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>18</td>
<td>18</td>
</tr>
</tbody>
</table>

**The electives shall be selected from the areas of Business, Economics, and/or Human Relations.

SECOND YEAR

<table>
<thead>
<tr>
<th>Course Offering</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Systems I and II ET 162, 264</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Technical Report Writing ET 113</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Intro to Solid State Physics ET 291</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Solid State Device Physics ET 292</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Integrated Circuit Layout ET 281</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electronics Theory I and Lab ET 151-101</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Electronics Theory II and Lab ET 151-102</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Solid State Devices I ET 172</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>15</td>
<td>18</td>
</tr>
</tbody>
</table>

Total Number of Credit Hours: 69

Course Offerings

See page 20 for definition of course numbering system

ET ELECTRONIC TECHNOLOGY

ET 101 ELECTRONICS LABORATORY I (0-10-2)(F/S). Experiments in direct current electronics. Study of resistance, dc circuit behavior, dc applications of capacitors and inductors, dc operation of transistor circuits, and characteristics of dc test equipment.


ET 111, 112 COMMUNICATION SKILLS (3-0-3)(F/S). Study of terms, attributes, and the mechanics of language for logical thinking, speaking, and writing. Training includes an introduction to inference using both verbal and symbolic techniques. Industrial applications include organization and delivery of technical reports in written and oral forms, business correspondence, and resume preparation.

ET 113 TECHNICAL REPORT WRITING (1-4-2)(F/S). Composition of standardized technical reports, proper usage of electrical schematic drawings and proper use of headings and punctuation.

ET 131 ELECTRONICS MATHEMATICS I (3-2-3)(F/S). The number system, algebra and algebraic equations, functions and the graphing of functions, exponential and logarithmic equations, and plane geometry and trigonometry.


ET 142 BASIC PHYSICAL SCIENCE (3-0-3)(F/S). Course covers concepts of force, displacement, power and energy and mechanical physical principles including mass, inertia, momentum, velocity and acceleration, and moment of inertia. Emphasis is placed on problem solving. PREREQ: One year high school algebra with satisfactory grade or equivalent.

ET 151 ELECTRONIC THEORY I (4-1-4)(F/S). Theory of direct current electricity, its behavior in dc circuits, resistance and physical properties contributing to its resistance, errors in calculation, dc power, dc current and voltage laws, dc circuit analysis, and physical properties of circuit components.

ET 152 ELECTRONIC THEORY II (4-1-4)(F/S). Theory of alternating current electricity, its behavior in electric circuits, properties of reactance and impedance, ac circuit analysis, tuned circuits and resonance, mutual inductance and transformers. PREREQ: ET 151.

ET 161 INTRODUCTION TO DIGITAL ELECTRONICS (2-0-2)(F/S). Introduction to binary number system, Boolean functions and mathematics, basic logic gates and logic families, Karnaugh mapping and Boolean simplification of logic functions.


ET 181 INTRODUCTION TO INTEGRATED CIRCUIT INDUSTRY (2-0-2)(F). Overview of the integrated circuit: its history, applications, and manufacturing. Course will cover technical aspects lightly and will focus on economic and social impact. PREREQ: ET 131-132, or M 111 or equivalent.

ET 182 INTRODUCTION TO INTEGRATED CIRCUIT PROCESSING (2-0-2)(F). Examination of the manufacturing techniques and processes necessary to build an integrated circuit from raw materials to final products. The emphasis is on conceptual aspects of processing; however, mechanisms and modeling will be discussed. PREREQ: ET 131-132 or M 111 or the equivalent.

ET 183 INTEGRATED CIRCUIT PROCESSING I (2-0-2)(S). A descriptive treatment, in some chemical and mathematical detail, of the processes used to manufacture integrated circuits. PREREQ: ET 181, 182.

ET 201 LINEAR SYSTEMS LAB (0-5-1)(F/S). Laboratory exercises to complement ET 251. Linear amplification and signal processing circuits including integrators, differentiators, active filters, oscillators, comparators, differential amplifiers, and "specialized" operational amplifiers. PREREQ: ET 152, ET 172.

ET 202 TELECOMMUNICATIONS LAB (0-5-1)(FS). A descriptive treatment, in some chemical and mathematical detail, of the processes used to manufacture integrated circuits. PREREQ: ET 181, 182.


ET 241 INSTRUMENTATION (2-0-2)(F/S). Electronic measurement through use of sensors, transducers, and detectors. Open-ended and closed-loop measurement.
systems. Photoelectric sensors, thermoelctric sensors, linear variable differential transformers. Signal conditioning and processing. PREREQ: ET 152.


ET 251 LINEAR SYSTEMS (3-2-3)(F/S). Linear circuit processing. Operational amplifier circuits, comparators, oscillators, logarithmic amplification, active signal filtering, operational amplifier power supply considerations. PREREQ: ET 152.


ET 262 OCCUPATIONAL RELATIONS (3-0-3)(F/S). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.


ET 265 DIGITAL SYSTEMS LAB II (0-4-1)(F/S). Laboratory exercises to complement ET 264. See ET 264 course description. PREREQ: ET 162.


ET 274 SOLID STATE DEVICES LAB II (0-4-1)(F/S). Laboratory exercises to complement ET 273. Study of characteristics of SCR devices, photodiodes and photo-transistors, light emitting diodes, laser diodes, LASCER devices, power field effect transistors, solid state thermopile sensors and strain gauges. PREREQ: ET 172.


ET 281 INTEGRATED CIRCUIT LAYOUT (2-0-2)(S). Lecture and drafting techniques used in the design of integrated circuit photolithographic masks. Focus to be on N-MOS silicon gate memory devices. PREREQ: ET 183.

ET 291 INTRODUCTION TO SOLID STATE PHYSICS (3-0-3)(S). A study of the interaction of wave phenomena (electromagnetic radiation, lattice vibration, and electronics) with the lattice in a solid. Attention is focused on an understanding of the electrical and thermal properties of solids, metals and semiconductors, in particular. Other selected topics from solid state and low temperature physics. PREREQ: PH 102 or PH 220-224.

ET 292 SOLID STATE DEVICE PHYSICS (3-0-3)(S). Introduction to the theory underlying the operation of semiconductor devices. The emphasis is placed on qualitative understanding and simple quantitative models. PREREQ: PH 291, ET 231 or M 204, C 131.

Fire Service Technology

Associate of Applied Science

The Fire Service Technology program is designed to up-grade the fire fighting skills and knowledge of volunteer and paid fire fighters. In some instances a volunteer fire fighter may use this degree as a means to enter the fire service as a paid professional. The program covers all phases of fire fighting. The intent is to provide fire fighters with the skills needed to save lives and protect property in a safe and efficient manner. Special fees apply to this program.

SUBJECTS

Orientation FR 101 ................................................. 2
Safety FR 102 ................................................... 2
First Aid FR 103 .................................................. 2
Fundamentals of Fire Service FR 104 ..................... 4
Water Supply FR 105 ............................................. 2
Fire Stream, Hydraulics FR 106 ......................... 2
Ropes, Knots, and Rescue FR 107 ..................... 1
Forcible Entry FR 108 ........................................... 1
Breathing Apparatus FR 109 ................................ 2
Hose Techniques FR 110 ...................................... 2

Ladders Techniques FR 111 ................................. 1
Building Construction FR 112 .............................. 2
Ventilation FR 113 .............................................. 1
Salvage and Overhaul FR 114 ............................... 1
Skills Maintenance FR 115 ................................ 2
Ground Cover FR 116 .......................................... 1
Fire Apparatus FR 117 ......................................... 1
Applied Communication FR 121 .......................... 3
Applied Communication FR 122 .......................... 3
Human Relations FR 131 ...................................... 3
Industrial Relations FR 132 ................................. 3
Fire Cause Determination FR 191 ......................... 1
Fire Ground Management FR 202 ....................... 1
Portable Fire and installed detection alarm and .... 1
Extinguishing systems/agents FR 203 ................. 2
Hazardous materials Incident Analysis FR 204 .... 2
Fire Risk Analysis FR 205 .................................. 2
Fire Service and the Law FR 206 .......................... 2
High Rise FR 207 .............................................. 1
Industrial Fire FR 208 .......................................... 1
Aircraft Fire Protection FR 209 ............................ 1
Cooperative Voc Ed (on-the-job training) FR 210 .... 10
*Approved Electives ......................................... 9

TOTAL 73

*Students must complete 270 instructional hours of approved coursework (in addition to those prescribed in the certification program) which may include any National Fire Academy resident or field programs described in the current Fire Service Training Program Catalog and/or any combination of state or federally sponsored fire classes, courses or schools—except those already used for credit toward completion of previous courses in the certification program. Students may use courses that they have attended prior to or any time during enrollment in the certification program. Copies of all course certificates must be on file at the fire department.

Course Offerings

See page 20 for definition of course numbering system

FR FIRE SERVICE TECHNOLOGY

FR 101 ORIENTATION FIRE SERVICE TRAINING (2-0-2). The purpose, objectives, and scope of Idaho’s Certification program is covered in this course: organization charts; primary functions of state and national fire service organizations; local department public relations programs; and the cleaning, maintenance, costs and degree of protection of the fire fighters protective clothing and other equipment is a part of the instruction received in this course. In addition, issues involving the fire service on a national level are covered. PREREQ: PERM/INST.

FR 102 SAFETY (1-0-1). This course covers important aspects of safety on the fire ground and around the station. It is designed to provide the student with a working knowledge of the following: accident control concepts, safety programs, safe use of facilities, personal protective equipment, safety in training, en route hazard, the emergency scene, special hazards, and inspection safety. PREREQ: PERM/INST.

FR 103 FIRST AID (1-4-2). The fire fighter student in this course will receive instruction leading to certification in General First Aid and CPR. Instruction will also be given in the “Heimlich” maneuver, triage, identifying and treating burns, controlling bleeding, applying dressing and bandages, and identifying and treating poisoning. PREREQ: PERM/INST.

FR 104 FUNDAMENTALS OF FIRE SERVICE SCIENCE (3-4-4). This course is designed to provide the student with a basic knowledge of applied mathematics technically related to the field of fire science. In addition, other basic science principles are covered and include: Principles of fire protection chemistry; characteristics of matter; mechanics of liquids; mechanics of gases; motion and force, work and machines; combustion and heat; magnet and magnetism; electricity; and atomic energy and radiation. PREREQ: PERM/INST.

FR 105 WATER SUPPLY (1-4-2). In this course, the student will learn to identify properties of water, sources of water supply, parts of a water distribution system, types of hydrants, different types of pressure, and types of water main valves. Instruction will also be given in inspecting a fire hydrant, reading and recording flow pressures and determining quantity of water from the opening. PREREQ: PERM/INST.

FR 106 FIRESTREAM HYDRAULICS (1-4-2). This course will cover different types of fire streams, the characteristics of good fire streams and the proper fire streams to be used for different types of fires. It will also provide instruction in the operations of common foam-making devices, and the use of different foams. Identification of nozzles and tips according to type, design, nozzle pressure, and flow in CPFM for proper operation of each is part of this course of instruction. PREREQ: PERM/INST.
School of Vocational Technical Education

FR 107 ROPEs, KNOTS, AND RESCUE (0-4-1). This course is designed to instruct the student in the use of ropes in a wide variety of applications, in the use of backboards and stretchers, victim lifting and drag, and in guidelines and methods for searching for victims in buildings. PREREQ: PERM/INST.

FR 108 FORCIBLE ENTRY (0-4-1). This course provides the necessary knowledge and practical skills applications needed to perform the following forcible entry operations: forcing doors, opening locked windows, opening walls and ceilings, opening roofs, and opening floors. PREREQ: PERM/INST.

FR 109 BREATHING APPARATUS (1-8-3). This course is designed to instruct the fire fighter student in the operational functions of self-contained protective breathing apparatus, and the methods of maintaining it and putting it on. Proper methods for charging air cylinders and the limitations and the degree of protection of self-contained breathing equipment is also covered in this course. Many exercises in this course emphasize practical use of the equipment in a variety of simulated fire ground situations. PREREQ: PERM/INST.

FR 110 HOSE TECHNIQUES (0-8-2). All types, sizes, and uses of hoses are covered in this course including the use of nozzles—their attachment to hoses and the advancing of charged and dry lines. Inspection, maintenance, cleaning, rolling, and carrying of hose are other topics of instruction within the course. PREREQ: PERM/INST.

FR 111 LADDER TECHNIQUES (0-4-1). All types of ladders used in the fire service, their parts and their uses will be covered in this course. Ladder raises, ladder carries, materials used in ladder construction, ladder inspection, maintenance, and testing are also topics of instruction in this course. PREREQ: PERM/INST.

FR 112 BUILDING CONSTRUCTION (1-4-2). This course is designed to provide the student with a thorough background in building construction principles as they relate to fire fighting. Included are general construction principles, wood and ordinary construction, mill construction, concrete and steel construction. Concepts of "fire proof" and fire resistance are also covered. PREREQ: PERM/INST.

FR 113 VENTILATION (0-4-1). This course is designed to instruct the student in the use of hand and power tools as they apply to ventilation and forcible entry, and will instruct the student in breaking and clearing windows, forcing windows, breaking walls, proper ventilation methods, and prevention of backdraft and safety precautions to be taken during ventilation. PREREQ: PERM/INST.

FR 114 SALVAGE AND OVERHAUL (0-4-1). This course will demonstrate the construction and use of a water chute and a water catchall, explain different methods of routing water and removing debris from a structure, demonstrate proper methods for folding and spreading salvage covers, explain main reasons for salvage and overhaul operations and precautions to be taken during them towards the prevention of evidence destruction. PREREQ: PERM/INST.

FR 115 SKILLS MAINTENANCE (0-8-2). This course is designed to assist students in maintaining proficiency in practical skills that were learned during course work in the certification levels. A selected number of practical skills are reviewed during this activity. PREREQ: PERM/INST.

FR 116 GROUND COVER (1-4-1). This course is designed to provide the student with knowledge of the following as they relate to ground cover fire fighting, apparatus and equipment, ground cover fire behavior, fire ground management, fire suppression methods, water supply and use, and personnel safety. PREREQ: PERM/INST.

FR 117 FIRE APPARATUS (0-4-1). This course is designed to provide the student with knowledge of the following as they relate to fire apparatus and equipment, aspects of driver carrying apparatus, driver carrying apparatus, operating fire department pumps, operating aerial ladder apparatus, operating elevating platform apparatus, maintenance schedules, and testing apparatus. PREREQ: PERM/INST.

FR 121 APPLIED COMMUNICATIONS (3-0-3). This course is taught in conjunction with the orientation and fire cause determination courses. The student demonstrates the ability to organize ideas, interpret facts, assimilate thoughts and ideas and effectively communicate this knowledge in proper written form by responding in depth to essay questions regarding such topics as: Successful Fire Service Leadership; Focusing on Fire Education and Professional Development in the Fire Service. PREREQ: PERM/INST.

FR 122 TECHNICAL WRITING/COMMUNICATIONS (3-0-3). This course is taught in conjunction with Fire Risk Analysis, fire ground management and hazardous materials. The student learns proper writing techniques for preparing pre-fire plans and reports for a wide variety of structures and occupancies as part of fire risk analysis. PREREQ: PERM/INST.

FR 131 HUMAN RELATIONS/SUPERVISION (3-0-3). In this course the student learns about human relations as they apply to: strike team interactions; Incident Command System Camp organization and unit of operation relationships; management, span-of-control; organization functions and structure; and principles of command. PREREQ: PERM/INST.

FR 132 INDUSTRIAL RELATIONS (3-0-3). In this course the student learns the importance and effective techniques of public relations and education in the field of fire prevention. Discussed in depth are: fire prevention public relations program; promotional activities; industrial affairs; public relations while making an inspection; and the fire inspector promoting a positive image through impressions. PREREQ: PERM/INST.

FR 201 FIRE CAUSE DETERMINATION (1-0-1). This course is designed to prepare the student with the knowledge and skills needed in order to correctly determine fire cause, and also provide the fire department's responsibility, the fire company's role, fire setters, preserving and documenting evidence for the investigator and courtroom testimony. PREREQ: PERM/INST.

FR 202 FIREGROUND MANAGEMENT (1-0-1). The assuming of command in a fire situation is the main subject of this course, dealing with the specific performances of sizing up, positioning of vehicle equipment and personnel, and attack point of attack. It covers types of fire, form, and size and type of hose and nozzles to be used, and the supervision of personnel in accomplishing forcible entry, rescue and other fire suppression activities. PREREQ: PERM/INST.

FR 203 PORTABLE FIRE AND INSTALLED DETECTION AND EXTINGUISHING SYSTEMS/AGENTS (1-4-2). This course will cover the principles of wet and dry sprinkler systems, control valves on sprinkler systems, purposes of the three classes of standpipe systems, and the purpose and operation of accelerators and exhausters on drypipe systems. It will also contain instruction in the operation and extinguishment principle for carbon dioxide, halogenated agent, dry and wet chemical and foam extinguishing systems. Water flow alarms, alarm test valves, infrared flame, detection devices, smoke detectors, and the servicing, recharging, testing, and maintenance of extinguishers are also topics of instruction within this course. PREREQ: PERM/INST.

FR 204 HAZARDOUS MATERIALS INCIDENT ANALYSIS (2-0-2). This course is designed to give the fire fighter student information on target hazards, configuration of the local area, locating and notifying agencies of the disaster preparedness directory. The fire department's participation in the following disasters will also be covered: train derailment, building collapse, hazardous chemical/material exposure, major highway accident, aircraft accident, earthquake, fuel spill, forest fires, flood and riots. PREREQ: PERM/INST.

FR 205 FIRE RISK ANALYSIS (2-0-2). This course is designed to provide the student with the skills necessary to do a systematic risk analysis of a community and examination of problem solving methods. It examines fire protection as a total system and provides methods to identify and estimate a community's risk level and level of protection. PREREQ: PERM/INST.

FR 206 FIRE SERVICE AND THE LAW (2-0-2). This course will cover the application of statutory, common and constitutional law of the fire fighter, organization of the local governing body, responsibilities and liabilities on the part of the fire fighter, the department and municipalities. It will also explain the fire fighter's right to compensation, rules governing the employment and termination of the fire fighter, a fire fighter's right to make arrests, etc. PREREQ: PERM/INST.

FR 207 HIGH RISE (1-0-1). This course is designed to provide the student with knowledge of the following as they relate to high rise fire fighting: improve problems in high rise buildings; heat, smoke and fire gases; life hazards; exposure problem; water supplies; access problems; logistics problems; coordination problems; salvage and overhaul; loss of electrical power; smoke proof stairways and special problems. PREREQ: PERM/INST.

FR 208 AIRCRAFT FIRE PROTECTION (1-0-1). This course is designed to provide the student with knowledge of the following as they relate to industrial fire protection: the need for plant fire protection, emergency planning, cooperation and coordination with outside agencies, plant fire prevention, plant fire brigades, managing fire brigade training programs, fire brigade training, fire protection system, and inspection and testing fire protection systems. PREREQ: PERM/INST.

FR 209 AIRCRAFT FIRE PROTECTION (1-0-1). This course will cover fire service equipment applicable to aircraft fires, methods of water application, chemical application, and size of fire hose nozzle patterns for use on aircraft fire. Other topics of instruction in this course include the methods of extinguishing and the hazards of magnesium and titanium fires, hazards presented by aircraft jet engine intake and exhaust systems; aircraft escape systems, and emergency incidents involving nuclear weapons or materials. PREREQ: PERM/INST.

FR 210 COOPERATIVE VOCATIONAL EDUCATION (on-the-job training (0-0-10). A maximum of 10 credits will be awarded for supervised on-the-job training, upon completion of all course work. The on-the-job training consists of the practical application of the principles. Least practical application of the prescribed courses. The credits will be granted upon written recommendation of the instructor of record and the local Fire Chief. PREREQ: PERM/INST.

Heavy Duty Mechanics—Diesel—Eleven Month Program

Certificate of Completion
Instructors: Ted Brownfield, Ken Hogue

This program is designed to prepare students for entry level employment in the heavy mechanics field. Instruction will include the basics in design and fundamentals of operation of gasoline and diesel engines, heavy duty trucks, equipment and component parts. Instruction will be on mock-ups and actual working units.
**SUBJECTS**

<table>
<thead>
<tr>
<th>Subjects of Study</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>First eight week block</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Engines DM 106</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine Component Systems DM 107</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diesel Fuel Systems DM 108</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Second eight week block</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Hyd Equipment Welding DM 109</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clutches and Transmissions DM 110</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Take-off &amp; Drive Lines DM 111</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Differential, Power Dividers, Final Drive &amp; Planetary Systems DM 112</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Third eight week block</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Elec and Magnetism DM 113</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Batteries, Switches, Relays and Solenoids DM 114</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Hydraulics DM 115</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fourth eight week block</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air Systems DM 116</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydraulic Brakes DM 117</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steering and Sus Sys DM 118</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engine Brakes DM 119</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupational Relations DM 262</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer Session</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Lab/Lecture DM 120</td>
<td>8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Course Offerings**

See page 20 for definition of course numbering system.

**DM HEAVY DUTY MECHANICS—DIESEL**

**DM 106 INTRODUCTION TO ENGINES (2-10-3F).** Theory and principles of operation. Engine disassembly and assembly procedures including component identification and function, use of measuring instruments for precision parts measuring.

**DM 107 ENGINE COMPONENT SYSTEMS (2-2-2F).** Intake and exhaust systems, lubrication systems, cooling systems, reconditioning cylinder heads and valve trains, turbo chargers, and super chargers.

**DM 108 DIESEL FUEL SYSTEMS (2-2-2F).** This course covers the five major types of diesel fuel injection pumps, injection nozzle rebuild and testing procedures, carburetors, fuel filters, fuel lines, and fuel transfer pumps. Total 8 credits for this block—repeated in Fall Semester.

**DM 109 BASIC HEAVY EQUIPMENT WELDING (1-1-1F).** Includes basic theory and lab of arc and gas welding, related to the maintenance and repair of heavy equipment.

**DM 110 CLUTCHES AND TRANSMISSIONS (2-2-2F).** Covers complete disassembly and assembly of heavy duty single and double disk clutches and theory and operation of heavy duty manual transmission will complete disassembly and assembly procedures to factory specifications.

**DM 111 POWER TAKE-OFF AND DRIVE LINES (1-3-1F).** Will cover power take-off and drive line disassembly and assembly to factory specifications.

**DM 112 DIFFERENTIAL, POWER DIVIDERS, FINAL DRIVE AND PLANETARY SYSTEMS (2-2-2F).** Includes complete disassembly and assembly differentials, power dividers, basic final drive systems, and planetary systems in heavy duty equipment. Total 8 credits for this block—repeated in Fall Semester.

**DM 113 BASIC ELECTRICAL AND MAGNETISM THEORY (2-7-2S).** Includes basic electricity and magnetism theory with electrical circuits and test equipment procedures and circuit testing with multimeter.

**DM 114 BATTERIES, SWITCHES, RELAYS AND SOLENOIDS (2-7-2S).** Introduction to batteries, switches, relays and solenoids, starter and charging systems used in electrical circuits of heavy duty equipment.

**DM 115 BASIC HYDRAULICS (2-4-2S).** Introduction to basic hydraulic theory and practices of hydraulic systems, lines, fittings, accumulators, oil coolers, circuits, valves, pumps and motors. Total 8 credits for this block—repeated in Spring Semester.

**DM 116 AIR SYSTEM (2-2-2S).** Air compressors, air brakes, parking brakes, air conditioning, spring brake cans, slack adjusters, brake shoes, air tanks and air piping.

**DM 117 HYDRAULIC BRAKES (2-2-2S).** System components and functions of brake systems including, brake shoes, drums, wheel bearings, wheel spindles, seals, brake adjustments.

**School of Vocational Technical Education**

**DM 118 STEERING AND SUSPENSION SYSTEMS (2-2-2S).** Suspension system including torsion bars, springs, air suspensions, wheels, tires, frames.

**DM 119 ENGINE BRAKES (2-2-2S).** Jacobs and Cummins C brake components and operation, retarders, construction and operation, shop skills, including sharpening drill bits and chisels, drilling and tapping holes, making copper and aeroquip lines, fittings and fasteners.

Total 8 credits for this block—repeated in Spring Semester.

**DM 120 PROJECT LAB/LECTURE (10-25-8SL).** Repair of outside projects in the heavy duty mechanical areas.

**DM 262 OCCUPATIONAL RELATIONS (2-0-2S).** Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.

**Horticulture Service Technician—Two Year Program**

(Landscape Construction and Maintenance)

Associate of Applied Science Degree

Instructors: Gary Moen, Neldon Oyler

The objective of the Horticulture Program is to prepare students for employment in the Landscape, Nursery, Floral, Greenhouse, and Fruit and Vegetable industries. This includes the production, sales and service areas of these major fields. The program stresses the design of landscapes, their interpretation and construction including costs, production of nursery plants, plant propagation, and landscape planting. Graduates of the Horticulture program qualify for positions in Nursery and Floral establishments as well as in Parks, Grounds, Maintenance, and Highway departments. They may also enter the fields associated with plant propagation, nursery sales, greenhouse work and sales in the related fertilizer and insecticide fields.

**Course Offerings**

See page 20 for definition of course numbering system.

**DM 101-102 COMMUNICATION SKILLS (2-0-2S).** Focus on the use of language effectively as a tool for logical thinking, problem solving, technical writing and speaking required in their major field of training.

**DM 103-104 RELATED BASIC MATHEMATICS (3-0-3S).** First semester—developing comprehension of the basic principles of mathematics. Specific areas include addition, subtraction, multiplication, division, fractions, denominators, square root, mensuration. Second semester—developing comprehension of the principles of related bookkeeping and accounting. Specific areas to be covered include: income and expense accounts, general journal and ledger, sales and purchases, inventories, payroll, etc.
School of Vocational Technical Education

HO 141-142 RELATED BASIC SCIENCE (2-0-2). First semester—developing comprehension of the scientific principles utilized in plant identification, plant growth and development, limiting factors, development which aid plant propagation. Second semester—developing comprehension of the scientific principles utilized in: developments which aid plant propagation, construction materials, insecticides, pesticides, soils and fertility.

HO 151-152 HORTICULTURE THEORY (7-0-7). First semester—developing comprehension, analysis and evaluation of: introduction to the field of horticulture, plant classification and growth, climate and other growth limiting factors, soil and soil amendments. Second semester—developing comprehension, analysis and evaluation of: plant propagation; growing containers; insect and disease control; pesticide application; and pruning practices.

HO 201 HORTICULTURE LABORATORY (0-15-4). Applying theory and related science to the solution of practical problems in Horticulture. Specific areas of application include: sprinkler design and installation; trees, grass and weed identification; basic landscape construction including turf grass installation, walks, patios and arbors.

HO 202 HORTICULTURE LABORATORY (0-15-4). Applying theory and related science to the solution of practical problems in Horticulture. Specific areas of application include: preparing landscape designs for residential, commercial, parks. Installation of walks, patios, arbors and retaining walls, plant identification including evergreens and deciduous shrubs, ground cover and vines.

HO 241 RELATED SCIENCE (2-0-2). Developing comprehension of the scientific principles utilized in plant growing, materials of construction, and weed control.

HO 242 RELATED SCIENCE (2-0-2). Developing comprehension of the scientific principles utilized in: power equipment, lawn and shrub maintenance, plant wounds, basic first aid, and insect control.

HO 251 HORTICULTURE THEORY (7-0-7). Landscape maintenance. Plant identification and uses. Landscape design, turf management, and shade tree identification and installation.

HO 252 HORTICULTURE THEORY (7-0-7). Principles of Landscape Design. Horticulture power machines and maintenance of tillers, mowers, shredders, construction design, nursery production, and garden center management.

HO 262 OCCUPATIONAL RELATIONS (2-0-2). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.

HO 271 INDIVIDUAL PROJECTS (3-0-3). Providing the opportunity for the student to apply all his prior education in planning, developing, and completing a unique, practical horticulture project.

Industrial Environmental Technician Program

Associate of Applied Science

This double major option combines the Industrial Mechanics/Automation and Refrigeration, Heating and Air Conditioning curriculums. The required general education coursework for the AAS degree are 6 credits in Communications (C111, 221) and 4 credits of Psychology (P 101 and P 125). Successful candidates will control the environment in a variety of industrial settings ranging from light manufacturing or business to heavy industrial settings.

Detailed course descriptions for Industrial Mechanics/Automation and Refrigeration, Heating and Air Conditioning can be found in the present Boise State University catalog.

The Certificate of Completion that is available for each respective program is retained. The AAS Degree program is an option beyond the Certificate of Completion level.

SUBJECTS

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Conditioning Lab RH 121-122</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Air Conditioning Theory RH 141-142</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>*Occupational Relationships RH 262</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>15</td>
<td>17</td>
</tr>
<tr>
<td>Maintenance Welding Tech IM 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Maintenance Machine Fund IM 102</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electro-Mechanical Systems IM 110-111</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Basic Fluid Power Operations IM 121-122</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Industrial Mechanical Laboratory IM 131-132</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Industrial Technology Communications IM 162</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>*Occupational Relationships IM 262</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

*IM 262 OR RH 262 required for AAS Degree.

Industrial Mechanics/Automation—Nine Month Program

Certificate of Completion

Instructor: Bob Allen

The Industrial Mechanics/Automation Program is designed to prepare technicians with entry level skills relevant to increasingly complex automated industrial environments. Emphasis is on design, operation, maintenance, diagnosis and troubleshooting of modern systems as found in the workplace today. Preventive maintenance techniques and job safety are stressed.

SUBJECTS

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance Welding Technology IM 101</td>
<td>.</td>
<td>3</td>
</tr>
<tr>
<td>Maintenance Machine Fundamentals IM 102</td>
<td>.</td>
<td>3</td>
</tr>
<tr>
<td>Electro-Mechanical Systems IM 114</td>
<td>.</td>
<td>3</td>
</tr>
<tr>
<td>Electro-Mechanical Systems IM 115</td>
<td>.</td>
<td>3</td>
</tr>
<tr>
<td>Basic Fluid Power Operations-Hydraulics IM 124</td>
<td>.</td>
<td>3</td>
</tr>
<tr>
<td>Basic Fluid Power Operations-Pneumatics IM 125</td>
<td>.</td>
<td>3</td>
</tr>
<tr>
<td>Industrial Mechanical Laboratory IM 134</td>
<td>.</td>
<td>5</td>
</tr>
<tr>
<td>Industrial Mechanical Laboratory IM 135</td>
<td>.</td>
<td>5</td>
</tr>
<tr>
<td>Industrial Technology Communications IM 162</td>
<td>.</td>
<td>2</td>
</tr>
<tr>
<td>Occupational Relationships IM 262</td>
<td>.</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

Course Offerings

See page 20 for definition of course numbering system

IM INDUSTRIAL MECHANICS

IM 101 MAINTENANCE WELDING TECHNOLOGY (3-0-3)(F). Coverage includes oxyacetylene equipment, basic arc welding, and gas metal arc welding for maintenance. Use of special electrodes on ferrous and non-ferrous base metals is emphasized. Blueprint reading, shop math, equipment maintenance, and layout skills for modern manufacturing are included.

IM 102 MAINTENANCE MACHINE FUNDAMENTALS (3-0-3)(S). This course combines use of basic hand tools with selected machine tools (lathe, milling machine, drill press, shaper, pipe/bolt machine) as are required to effectively service or repair increasingly sophisticated industrial devices. Preventive maintenance techniques utilizing this equipment are covered.

IM 114 ELECTRO-MECHANICAL SYSTEMS (3-0-3)(F). This course includes basic electricity, fractional horsepower motors, torque and horsepower controls, transmission of power via various drives, troubleshooting, and maintenance of these systems. Test meter usage is stressed.

IM 115 ELECTRO-MECHANICAL SYSTEMS (3-0-3)(S). This course includes electrical motors with emphasis on three-phase and direct-current operations. Wiring skills are emphasized and troubleshooting of complex circuitry is given using modern testing equipment.

IM 124 BASIC FLUID POWER OPERATIONS-HYDRAULICS (3-0-3)(F). This course concentrates on Basic Hydraulics providing exposure to pumps, motors, directional control valves, flow controls, filtration devices, and actuators.

IM 125 BASIC FLUID POWER OPERATIONS-PNEUMATICS (3-0-3)(S). This course concentrates on Basic Pneumatics providing exposure to compressors, motors, switches, control valves, flow control, filtration devices, and actuators.

IM 134 INDUSTRIAL MECHANICAL LABORATORY (0-20-5)(F). Laboratory experiences keyed to Performance Based Objectives. Five areas are emphasized to prepare technicians for industrial environments. These areas include, but are not limited to: Metallurgy via welding technologies, maintenance of this equipment, and fluid power technologies. Hydraulics, electromechanical systems are enhanced by computer assistance where applicable.

IM 135 INDUSTRIAL MECHANICAL LABORATORY (0-20-5)(S). Laboratory experiences keyed to Performance Based Objectives. Five areas are emphasized to prepare technicians for industrial environments. These areas include, but are not limited to: Metallurgy via machine tool use for maintenance and maintenance of this equipment, fluid power technologies, pneumatics, electromechanical systems enhanced by computer assistance where applicable.

IM 162 INDUSTRIAL TECHNOLOGY COMMUNICATIONS (2-0-2)(F). Computer/ Numerical Control Literacy for the Industrial Technician. Problem solving with the Hewlett-Packard HP41 CV/IL System. Demonstrations of programming and operating techniques are given the student for controlling/communicating with automated production equipment.

IM 262 OCCUPATIONAL RELATIONS (2-0-2)(S). Course is designed to enable a student to become skilled in dealing effectively with people in an industrial environment. Communication and writing skills for applying for, obtaining, retaining and advancing in employment are offered.
Machine Shop—Two Year Program

Associate of Applied Science Degree
Instructors: Gus Glassen, Don Wertman

Boise State University offers a specialized Machine Shop program for students desiring to become machine tool operators. Students receive instruction in the set-up and use of all basic machines including engine lathes, milling machines, grinders, surface grinders, computer numerical control machines and bench work connected with them. Students will also learn about the many different materials and processes used by industry. They will receive classroom instruction and practical experience in the use of various precision measurement and test equipment being used by metals manufacturing industries.

Students who choose not to take CM 111 and two approved electives will receive a Diploma in Machine Shop.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine Shop Laboratory MS 103, 104</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Communication Skills MS 111</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Related Blueprint Reading MS 126, 127</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Basic Math MS 132</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Machine Shop Theory MS 153, 154</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Occupational Relationships MS 262</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Speech Commun CM 111</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>16</td>
<td>18</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Machine Shop Lab MS 203, 204</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Fund Computer-Aided Draft &amp; Design MS 211</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Blueprint Read &amp; Layout for Machinist MS 223</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Tool Design for Manufacturing MS 224</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Advanced Math MS 233, 234</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Machine Shop Theory MS 253, 254</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Electives (on approval)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td>19</td>
<td>19</td>
</tr>
</tbody>
</table>

Course Offerings

See page 20 for definition of course numbering system

MS MACHINE SHOP

MS 103 MACHINE SHOP LABORATORY (2-18-6)(F). This sequence covers safety, shop practice, work habits and production rates. Also included are the set-up and operation of inspection and layout tools, engine lathe, vertical milling machine, horizontal milling machine, and power saws. COREQ: MS 153.

MS 104 MACHINE SHOP LABORATORY (2-18-6)(S). This sequence covers safety shop practice, work habits and production rates. Also included are the set-up and operation of drill press, jib bore, surface grinders, and computer numerical control machines and computer numerical control milling machine. PREREQ: MS 103. COREQ: MS 154.

MS 111 COMMUNICATION SKILLS (3-0-3)(F). An examination of interpersonal communication. Focuses on communication in life-long learning, on awareness of self, communicative relationships and written communications.

MS 126 RELATED BLUEPRINT READING (2-0-2)(F). Introduction to the basic principles and techniques of reading orthographic projection drawings and technical sketching as applied to machine shop practice.

MS 127 RELATED BLUEPRINT READING (4-0-4)(S). A course in advanced principles to understand the reading of more complicated machine shop detail and assembly drawings with emphasis on machining specifications and materials. PREREQ: MS 126.

MS 132 BASIC MATH (2-0-2)(F). A study of fractions, decimals, metric system and basic math processes such as addition, subtraction, division and multiplication as applied to the machine shop.

MS 153 MACHINE SHOP THEORY (3-0-3)(F). Machining processes and their application as practiced in the laboratory course. Safety and sound work habits are emphasized in all phases of instruction. The set-up, care and maintenance of inspection and layout tools, engine lathe, vertical milling machine, horizontal milling machine, and power saws. COREQ: MS 103.

MS 154 MACHINE SHOP THEORY (3-0-3)(S). Machining processes and their application as practiced in the laboratory course. Safety and sound work habits are emphasized in all phases of instruction. The set-up, care, and maintenance of drill presses, jib bore, surface grinders, basic computer numerical grinders, and basic computer numerical control milling machine. PREREQ: MS 153. COREQ: MS 104.

MS 203 ADVANCED MACHINE SHOP LABORATORY (2-18-6)(F). The set-up and operation involving manipulative development and advanced skill in the use of engine lathes, vertical milling machines, drill presses, power saws, surface grinders, advanced computer numerical control milling machines, and basic computer numerical control lathe. PREREQ: MS 104.

MS 204 ADVANCED MACHINE SHOP LABORATORY (2-18-6)(S). The set-up and operation involving manipulative development and advanced skill in the use of engine lathes, vertical milling machines, drill presses, power saws, surface grinders, advanced computer numerical control lathe, and operation and programming. PREREQ: MS 203.

Manufacturing Technology—Two Year Program

Associate of Applied Science Degree

The Manufacturing Technology Program is designed to prepare entry level technicians to plan, organize and control manufacturing processes. Graduates from this program will be prepared to participate in a modern manufacturing environment with a technical understanding of how each particular function integrates into a complete manufacturing system. In addition they will be prepared to analyze and work to improve the three common elements of production manufacturing, which are employees, materials and machines.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Title</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material &amp; Process Manufacturing MN 100</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Technical Drawing EN 101</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Fund of Speech Comm CM 111</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AC/DC Theory MN 121</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Mathematics DT 131</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Intro to Machining Processes I MN 141</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Comp Literacy for Electronic Tech ES 188</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Engineering Graphics EN 108</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Industrial Safety MN 112</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Communication Skills ES 114</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Welding Processes MN 122</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Mathematics DT 132</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Adv Machining Processes II MN 180</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>18</td>
<td>17</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Title</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Skills ES 191</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Quality Assurance &amp; Stat Proc Control MN 201</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Robotics &amp; Automated Mach Tool Prog MN 211</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Unified Tech Concepts-Physics MN 231</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Jig, Fixture &amp; Tool Design MN 261</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Manufac Plan &amp; Facil Design/Mod MN 202</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Print of Economics-Micro EC 202</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Comp Aided Design/Comp Aided Manuf MN 212</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Interpersonal Comm CM 221</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electrical/Electronics Drafting MN 222</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Hazardous Waste Material Handling MN 232</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>16</td>
<td>17</td>
</tr>
</tbody>
</table>
School of Vocational Technical Education

Course Offerings

See page 20 for definition of course numbering system

MN MANUFACTURING TECHNOLOGY

MN 100 MATERIAL AND PROCESS MANUFACTURING (2-0-2/F/S). A lecture, visual aid presentation overviewing the production and general properties of common engineering materials such as iron, steel, zinc, copper, aluminum and plastics; the fundamentals of material processing such as powder metallurgy, hot and cold forming and sheeting; and the basic surface protection processes such as cleaning, painting and plating.

MN 112 INDUSTRIAL SAFETY (2-0-2/F/S). Federal, state and local safety codes applying to materials, material handling and equipment.

MN 121 AC/DC THEORY (1-4-2/F/S). Terminology and fundamentals of direct and alternating currents as applied to the manufacturing environment. Practical application and skills in wiring methods and control circuits.

MN 122 WELDING PROCESSES (2-4-3/F/S). Oxyacetylene welding, cutting and metal shielded arc welding. Lecture and demonstrations in gas tungsten arc, gas metal and plasma arc welding. Weldability of metals and welding metallurgy.

MN 141 INTRODUCTION TO MACHINING PROCESSES I (2-4-3/F/S). This sequence covers safety, shop practice and production rates. Also included are the setup and operation of the lathes, milling machines, drill presses, power saws and grinders.

MN 180 ADVANCED MACHINING PROCESSES II (1-8-3/F/S). This sequence covers the use of special attachments, bench work, layout, heat treating, hardness testing, layout inspection, and computer numerical control mill set-up, operation and programming. PREREQ: MN 141 or equivalent.

MN 201 QUALITY ASSURANCE & STATISTICAL PROCESS CONTROL (4-0-4/F/S). The statistical requirements necessary to control the processes of a modern manufacturing line will be covered. PREREQ: DT 132 or equivalent.

MN 202 MANUFACTURING PLANNING & FACILITY DESIGN/ MODIFICATION (2-4-3/F/S). Techniques of planning methods and procedures of manufacturing, with the goal of becoming more productive and competitive. Planning and procedures include plant layout, conventional and automated materials handling, materials requirement planning, flexible manufacturing, standardization, and inventory and warehousing planning.

MN 211 ROBOTICS & AUTOMATED MACHINE TOOL PROGRAMMING (1-4-2/F/S). An introduction to lecture/lab robotics in manufacturing. Includes definitions and classifications of robots, limitations and justifications of robots, and social implications of robotics as applied to manufacturing.

MN 212 COMPUTER AIDED DRAFTING/COMPUTER AIDED MANUFACTURING (2-4-3/F/S). Writing computer numerical control (CNC) machine tool programs using computer-assisted techniques to generate machine firmware, set up and operation, development of tooling concepts, preset cutting tooling, machine methods, definition of part geometry, writing of tool motion statements, use of the computer to process program inputs, analysis, and debugging of computer output to develop a functional program.

MN 222 ELECTRICAL/ELECTRONICS DRAFTING (1-4-3/F/S). Mechanical and Computer Assisted Drafting (CADD) techniques and standards for developing electrical and electronic schematics and drawings.

MN 231 UNIFIED TECHNICAL CONCEPTS PHYSICS (3-4-3/F/S). The study of technical principles in such a manner as to make them readily understood and applicable in different technologies—those that include electrical, mechanical, fluidal, and thermal systems, and combinations thereof. This course blends the useful technical principles with laboratory practice on realistic devices that are commonly utilized by technicians in process/manufacturing environment. PREREQ: DT 132 or equivalent.

MN 232 HAZARDOUS WASTE MATERIALS HANDLING (2-0-2/F/S). Fundamentals of identifying, handling, processing and treating of hazardous wastes generated in the manufacturing environment.


Marketing—Mid-Management—Two Year Program

Instructors: Richard Lane, Duston Scudder

Associate of Science Degree

1st SEM 2nd SEM

FRESHMAN YEAR

English Composition I 101, 102 3 3
Introduction to Business GB 202 3 -

Math or Information-Decision Science Elective - 4
Salesmanship MM 101 - 3
Principles of Economics-Macro EC 201 - 3
Principles of Advertising MM 203 - 3
Retail Merchandising MM 204 - 3
General Psychology P 101 - 3
Mid-Management Practicum MM 100 - 3
Fundamentals of Speech Comm CM 111 - 3

TOTAL 17 15

SOPHOMORE YEAR

Consumer Marketing MM 201 - 3
Principles of Economics-Micro EC 202 - 3
Principles of Advertising MM 203 - 3
Report Writing MM 209 - 3
Intro Microcomputer Appl in Retailing MM 250 - 3
Retail Merchandising MM 204 - 3
General Psychology P 101 - 3
Mid-Management Practicum MM 100 - 2 2
Electives - 2 5

TOTAL 16 16

NOTE: The Marketing: Mid-Management program is also listed in this Catalog in the College of Business section.

Practical Nursing—Eleven Month Program

Certificate of Completion

Instructors: Leanne Bowman, Noreen Heist, Dessa Lagerstrom, Donna McCulloch, Janet Tisdale, Mary Towle

The Practical Nursing Program, in cooperation with five hospitals, two long term care facilities and the State Board for Vocational Education, is approximately 11 months in length and consists of hospital and long term care nursing experiences and classroom instruction. A certificate is awarded upon graduation from the course. Students are then eligible to take the state licensing examination, which, if passed, qualifies them to practice as licensed practical nurses. The program is approved by the Idaho State Board of Nursing.

Classroom work includes instruction in the needs of individuals in health and in sickness, with emphasis on the practical nurses' role in meeting these needs.

Clinical experience consists of supervised hospital nursing experience in caring for patients with medically and surgically treated conditions, the care of sick children, new mothers and infants, rehabilitation and remotivation techniques in the care of the aged and long-term patient. Failure to meet requirements in either theory or clinical areas may result in termination from the program.

Admission Requirements: High school graduate or pass the General Educational Development Test. Satisfactory scores on the pre-entry test, which is given by Boise State University. A complete medical examination is required. The applicant will be interviewed by a committee. Thirty-five students will be selected for the Boise program, which begins in January; twenty students will be selected for the Nampa/Caldwell program, which begins in September.

The courses will be offered at various times during the eleven months depending upon the admission date and the availability of clinical experiences. This curriculum meets the requirements for hours and content for the Idaho State Board of Nursing.

A student must complete the following requirements to graduate from the program.

Professional Concepts PN 101
Anatomy and Physiology for Prac Nurs PN 102
Medical-Surgical Nursing Clinical PN 104
Nursing Dignity Diet Therapy PN 105
Emergency Nursing Concepts PN 106
Pharmacology for Practical Nursing PN 107
Pharmacology Clinical PN 108
Geriatric Nursing PN 109
Geriatric Clinical PN 110
Maternal and Infant Clinical PN 112
Pediatric Clinical PN 113
Fundamentals of Nursing PN 114
Clinical Foundations PN 115
Community Health and Microbiology PN 120
Course Offerings
See page 20 for definition of course numbering system

PN PRACTICAL NURSING
PN 101 PROFESSIONAL CONCEPTS (1-0-1)/S. Topics of study for Practical Nursing Professional Concepts will include role of the Practical Nurse, legal and ethical aspects and historical development of the field.

PN 102 ANATOMY AND PHYSIOLOGY FOR PRACTICAL NURSING (4-0-4). A study of the normal structure and function of the body cells, tissues, organs and systems, including the interrelationship of body systems.

PN 104 MEDICAL-SURGICAL NURSING CLINICAL (0-28-7). Clinical experience for PN 121-122.

PN 105 NUTRITION AND DIET THERAPY (2-0-2). An introduction to nutrition and identification of body nutritional needs in health and illness, including the study of diet therapy.

PN 106 EMERGENCY NURSING CONCEPTS (2-0-2). A study of assessment and immediate and temporary treatment of persons involved in accidents or other emergency situations.

PN 107 PHARMACOLOGY FOR PRACTICAL NURSING (3-0-3). A study of drug classification, modes of administration and principles of mathematics essential to drug administration.

PN 108 PHARMACOLOGY CLINICAL (0-4-1). Clinical experience for PN 107. PREREQ: PN 107.

TN 109 GERIATIC NURSING (1-0-1). A study of the health needs and problems particular to the elderly patient.

PN 110 GERIATRIC CLINICAL (0-4-1). Clinical experience for PN 109. PREREQ: PN 109.

PN 112 MATERNAL AND INFANT CLINICAL (0-4-1). Clinical experience for PN 124. PREREQ: PN 124.

PN 113 PEDIATRIC CLINICAL (0-4-2). Clinical experience for PN 125. PREREQ: PN 125.

PN 114 FUNDAMENTALS OF NURSING (3-4-5). The student will develop skills in activities and procedures basic to patient care and includes medical terminology.

PN 115 CLINICAL FOUNDATIONS (0-12-3). Clinical experience for PN 114. PREREQ: PN 114.

PN 118 PRACTICAL NURSING SPECIAL THEORY (V-V-1 to 10). Designed to provide the opportunity for study of a specific unit of theory. The topic offered will be selected on the basis of an evaluation of needs of the individual. PREREQ: PERM/DEPT.

PN 119 PRACTICAL NURSING SPECIAL CLINICAL (V-V-1 to 10). Designed to provide the opportunity for specific clinical experience. The clinical offered will be selected on the basis of an evaluation of needs of the individual. PREREQ: PERM/DEPT.

PN 120 COMMUNITY HEALTH AND MICROBIOLOGY (1-0-1). A study of the health needs of the individual, the family, the community and microbiology.

PN 121 MEDICAL AND SURGICAL NURSING I (8-0-8). A study of diseases and disorders of the body systems including planning, implementation and evaluation of nursing care.

PN 122 MEDICAL AND SURGICAL NURSING II (7-0-7). Continuation of the study of body systems and nursing care. PREREQ: PN 121.

PN 123 GROWTH AND DEVELOPMENT (1-6-1). A study of normal growth and development.

PN 124 MATERNAL AND INFANT HEALTH (2-0-2). A study of the obstetric patient and the neonate both in health and illness.

PN 125 PEDIATRIC NURSING (2-0-2). A study of health, diseases and disorders of children.

PN 126 MENTAL HEALTH AND MENTAL ILLNESS (2-0-2). A study designed to enable the student to become skilled in dealing effectively with people including mental health and the signs and symptoms of mental illness.

PN 180 INTRO COMPUTER APPLICATION TO OCCUPATIONAL RELATIONS (1-0-1)/F/S. A study of job seeking skills, written communication and hands-on use of computer technology to complete personal data packet.
Course Offerings

See page 20 for definition of course numbering system

RH AIR CONDITIONING, REFRIGERATION AND HEATING

RH 121-122 AIR CONDITIONING, REFRIGERATION AND HEATING LABORATORY (0-20-5)(F/S). These courses provide the laboratory application of principles covered in the theory class. Skills will be developed and practice will be provided which will be needed by the service person. Different phases of air conditioning, refrigeration and heating will be covered.

RH 141-142 AIR CONDITIONING, REFRIGERATION AND HEATING THEORY (10-0-10)(F/S). This sequence of courses provides a basic understanding of the equipment and tools used on commercial and residential refrigeration, heating and air conditioning equipment including heat pumps. Emphasis is on causes of break downs and the making of necessary repair. Test equipment is used in the inspection of components such as relays, thermostats, motors, refrigerant lines, compressors, evaporators, condensers, oil and gas heating equipment, metering devices and electrical circuitry.

RH 262 OCCUPATIONAL RELATIONS (2-0-2)(F). Course is designed to provide a Respiratory Therapy Technician upon graduation and be eligible to clinical practice, basic patient care and charting. PREREQ: PERM/INST.

Respiratory Therapy Technician

Certificate of Completion

Instructors: David Nuerenberg, Dr. Charles Reed, Denise Voigt, Barbara Wixom

The Respiratory Therapy Technician program is designed to provide students with the necessary theory and skills to become employed as a Respiratory Therapy Technician upon graduation and be eligible to write the Certified Respiratory Therapy Technician National Examination. The program includes the study of anatomy, physiology, microbiology, pharmacology, pathology and specialized subjects related to respiratory therapy;

Clinical experience consists of supervised, acute care experience in treatment of respiratory disease. The various acute care facilities provide a vastly diversified experience in cardiopulmonary care.

The program is fully accredited by the Council on Allied Health Education and Accreditation of the American Medical Association.

A Certificate of Completion is awarded upon completion of the program.

FALL SEMESTER

Anatomy & Physiology RS 111 ..................................6
Basic Science RS 112 ...........................................2
Clinical Assessment RS 113 ...................................2
Gas Therapy Theory RS 114 .....................................2
Gas Therapy Lab RS 115 .......................................1
Intro to Respiratory Therapy RS 116 ..........................1
Communications RS 117 .......................................1
Intermittent Positive Pressure Breathing RS 118 ............1
Microbiology RS 119 ............................................1
Pharmacology RS 120 ...........................................3
Clinical Practicum I RS 121 .....................................2
TOTAL 22

SPRING SEMESTER

Cardiopulmonary Pathophysiology RS 151 ..................5
Cardiopulmonary Resuscitation RS 152 .....................2
Electrocardiography RS 153 ....................................1
Mechanical Ventilation Theory RS 154 .......................1
Mechanical Ventilation Lab RS 155 ............................1
Pulmonary Function Theory RS 156 ...........................2
Pulmonary Function Lab RS 157 ................................2
Clinical Practicum II RS 158 ....................................4
TOTAL 18

SUMMER SEMESTER

Clinical Lecture Series RS 175 ..................................3
Respiratory Care Review RS 176 ...............................5
Clinical Practicum III RS 179 ....................................8
TOTAL 16

Course Offerings

See page 20 for definition of course numbering system

RS RESPIRATORY THERAPY TECHNICIAN

RS 111 ANATOMY AND PHYSIOLOGY (6-0-6)(F). A study of the body systems, functions and their interrelationships with a focus on the cardiopulmonary systems. PREREQ: PERM/INST.

RS 112 BASIC SCIENCE (2-0-2)(F). A general science study including a review of basic mathematics, chemistry, and physics with emphasis on gas laws. PREREQ: PERM/INST.

RS 113 CLINICAL ASSESSMENT (3-0-3)(F). The practice of respiratory assessment including breath sounds, inspection, auscultation, palpation, percussion, chest physiotherapy care. PREREQ: PERM/INST.

RS 114 GAS THERAPY THEORY (2-0-2)(F). The detailed study of gases, aerosols, and humidity and their application to respiratory care. PREREQ: PERM/INST.

RS 115 GAS THERAPY LAB (0-4-1)(F). Practical application of all gas therapy apparatus. Students will assemble, disassemble, and apply gas delivery equipment. PREREQ: PERM/INST.

RS 116 INTRODUCTION TO RESPIRATORY THERAPY (1-0-1)(F). The introduction to clinical practice, basic patient care and charting. PREREQ: PERM/INST.

RS 117 COMMUNICATIONS (1-0-1)(F). Practical application of communications. Includes the study of terminology, legal aspects, ethics, and job-seeking skills. PREREQ: PERM/INST.

RS 118 INTERMITTENT POSITIVE PRESSURE BREATHING (1-0-1)(F). A study and application of intermittent positive breathing therapy and including basic, indications, contraindications, advantages, and hazards. PREREQ: PERM/INST.

RS 119 MICROBIOLOGY (1-0-1)(F). A study of the classification, morphology, identification, and physiology of microorganisms with special emphasis on culturing, cleaning, culturing, and sterilization of contaminated equipment. PREREQ: PERM/INST.

RS 120 PHARMACOLOGY (3-0-3)(F). An introduction to commonly used drugs in respiratory care including principles and routes of drug administration, actions, indications, contraindications, and physiologic responses. PREREQ: PERM/INST.

RS 121 CLINICAL PRACTICUM (0-8-2)(F). The student will obtain experience under the direct supervision of clinical instructors in community medical facilities. PREREQ: PERM/INST.

RS 151 CARDIOPULMONARY PATHOPHYSIOLOGY (4-0-4)(S). A study of the cardiopulmonary systems and their effects on other body systems, normal physiology, and pathological entities including the role of respiratory care in certain disease states. PREREQ: PERM/INST.

RS 152 CARDIOPULMONARY RESUSCITATION (1-4-2)(S). A study of the biologic, and pathologic, the physiology of cell, tissue, organ and system death. C.P.R. techniques, airway management, and intubation will be practiced. Students will meet American Heart Association CPR certification. PREREQ: PERM/INST.

RS 153 ELECTROCARDIOGRAPHY (1-0-1)(S). A study of the normal and abnormal cardiac tracings, and basic EKG interpretations, and the practice of EKG techniques. PREREQ: PERM/INST.

RS 154 MECHANICAL VENTILATION THEORY (1-0-1)(S). A comprehensive study of ventilators, including the mechanical and physiological aspects of long-term ventilatory support, and care of the patient on life support systems. PREREQ: PERM/INST.

RS 155 MECHANICAL VENTILATION LAB (0-4-1)(S). Lab practice with models of ventilators including special techniques and augmented by clinical experience. PREREQ: PERM/INST.

RS 156 PULMONARY FUNCTION THEORY (2-0-2)(S). A study of the history, techniques, and interpretation of pulmonary function studies in “state-of-the-art” testing. The study of etiology and symptomatology of diseases and their relationship to pulmonary function studies included. PREREQ: PERM/INST.

RS 157 PULMONARY FUNCTION LAB (0-8-2)(S). Practical application of testing, including spirometry, plethysmography, exercise studies, and arterial blood gases. PREREQ: PERM/INST.

RS 158 CLINICAL PRACTICUM II (0-16-4)(S). The student will obtain clinical experience under direct supervision of clinical instructors in community medical facilities. PREREQ: PERM/INST.

RS 175 CLINICAL LECTURE SERIES (3-0-3)(SU). Physician instructed study of pulmonary and cardiac diseases with emphasis on their clinical management. PREREQ: PERM/INST.

RS 176 RESPIRATORY CARE REVIEW (5-0-5)(SU). The theory and clinical applications of modalities including incubators, hypothermia units, infant warmers and pleural suction. PREREQ: PERM/INST.

RS 179 CLINICAL PRACTICUM III (0-32-7)(SU). The student will obtain clinical experience under direct supervision of clinical instructors in community medical facilities. PREREQ: PERM/INST.
Small Engine Repair—Nine Month Program

(Recreational Vehicles)
Certificate of Completion
Instructor: Jeff Schroeder

The Small Engine Repair Program will include classroom, math and shop experiences directed to maintaining and repairing a variety of two and four cycle engines used on portable power equipment, e.g., lawn mowers, outboard motors, chain saws, rotary tillers and recreational vehicles. The instructional units will emphasize the complete repair of all types of small engine equipment.

SUBJECTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Engine Laboratory SE 101, 102</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Small Engine Theory SE 141, 142</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>*Intro Microcomputers AM 180</td>
<td>-1</td>
<td>1</td>
</tr>
<tr>
<td>Occupational Relationships SE 181</td>
<td>-1</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>14</td>
<td>16</td>
</tr>
</tbody>
</table>

*See Auto Mechanics Program for course description.

Course Offerings

See page 20 for definition of course numbering system

SE SMALL ENGINE REPAIR

SE 101 SMALL ENGINE LABORATORY (0-32-0)(F). Includes application and instruction in repair and overhaul of small engine units with emphasis on lawn and garden equipment.

SE 102 SMALL ENGINE LABORATORY (0-32-0)(S). Repair and maintenance of recreational vehicles, motorcycles, snowmobiles and outboard marine engines.

SE 141 SMALL ENGINE THEORY (6-0-6)(F). Provides a basic understanding of internal combustion engine and principles of two and four cycle engines. Fundamentals in carburetion and electrical systems are covered.

SE 142 SMALL ENGINE THEORY (6-0-6)(S). Includes instruction in power train, clutching, trouble shooting, fuel systems, tune-up, marine engines and chain saws.

SE 181 OCCUPATIONAL RELATIONS (1-0-1)(S). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment.

Surgical Technology—Nine Month Program

Certificate of Completion
Instructor: Merle Curtis

The Surgical Technology Program is a competency based curriculum containing modules developed for individual student progress. Each of the classes contains modules complete with reading assignments, laboratory practice assignments and a written test to let the student know when mastery of the module has been accomplished. All modules must be successfully completed to qualify for a Certificate of Completion.

The student is required to be concurrently enrolled in Human Anatomy and Physiology Z 111, Z 112, and First Aid Core Block I, or have recently completed those classes successfully (C or better.)

Classes begin Fall Semester only.

Course Offerings

See page 20 for definition of course numbering system

ST SURGICAL TECHNOLOGY

ST 100 INTRODUCTION AND BASIC SCIENCES (3-0-3)(F). Includes modules: (1) The Health Care Team and its Language; (2) The Evolution of Asepsis; (3) Ethical and Legal Responsibilities; (4) The Operating Room Suite, (5) Principles of Antimicrobials, (6) Introduction to Pharmacology, (7) Introduction to Oncology, (8) Introduction to Pathology, (9) Disease Conditions; (10) Diagnostic Procedures; (11) Communication in Surgical Technology, including introduction to computers.

ST 101 OPERATING ROOM TECHNIQUES (3-3-4)(F). Includes modules: (1) Safety and Economy in the Operating Room; (2) Duties of the Scrub and Circulating Technician; (3) The Surgical Hand Scrub, Gowning and Gloving; (4) Draping Techniques; (5) Sutures and Needles; (6) Sponge Dressings, Drains, Care of Specimens; (7) Instruments and Special Equipment.

ST 102 STERILIZATION AND DISINFECTION (1-1-1)(S). Includes modules: (1) Introduction to Microbiology; (2) Introduction to Microbiology—The Body’s Defenses; (3) Injury, Wound Healing and Hemostasis; (4) Infection—The Process, Prevention and Control; (5) Sterilization and Disinfection Methods.

ST 110 CARE OF THE SURGICAL PATIENT (3-3-4)(F). Includes modules: (1) The Patient; (2) Preparation of the Surgical Patient; (3) Transportation of the Surgical Patient; (4) Positioning the Surgical Patient; (5) Anesthesia; (6) Recovery Room and Emergency Room Care.

ST 111 SURGICAL PROCEDURES (6-4-7)(S). Modules: (1) General Surgical Procedures; (2) General Abdominal Procedures; (3) Orthopedic Surgery; (4) Obstetric and Gynecological Procedures; (5) Genitourinary and Transplant Surgery; (6) Plastic Surgery; (7) Ophthalmic Surgery; (8) Ear, Nose, Throat, Oral Surgery; (9) Neurosurgery; (10) Microsurgery; (11) Cardiovascular and Thoracic Surgery; (12) Pediatric and Geriatric Surgery. Each of the modules includes a brief history, procedures, special considerations and the devices used.

ST 131 CLINICAL PRACTICE (2-4-3)(S). Includes patient care and beginning experience in the operating rooms, outpatient surgery and central supply.

ST 132 ADVANCED CLINICAL PRACTICE (4-8-6)(S). Includes advanced experience in surgery, scrubbing, and circulating.

Water/Wastewater Technology—Eleven Month Program

Certificate of Completion
Instructor: Al Hodge

The Water/Wastewater Technology Program is designed to prepare a student for employment as an entry level water/wastewater treatment plant operator. The program covers all phases of treatment plant operations, related math and sciences, maintenance, public relations, communications and report writing. Hands-on experience is provided when the student works at an area water or wastewater facility.

SUBJECTS

<table>
<thead>
<tr>
<th>Course</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water/Wastewater Mechanical Lab I WW 110</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Water/Wastewater Mechanical Lab II WW 111</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Water/Wastewater Bio-Chem Lab I WW 120</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Water/Wastewater Bio-Chem Lab II WW 121</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Water/Wastewater Math I WW 133</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Water/Wastewater Math II WW 134</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Water/Wastewater Plant Operations I WW 153</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Water/Wastewater Plant Operations II WW 154</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Occupational Relations WW 262</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>16</td>
<td>18</td>
</tr>
</tbody>
</table>

SUMMER

Water/Wastewater In Plant Practicum WW 161 8

Course Offerings

See page 20 for definition of course numbering system

WW WASTEWATER TECHNOLOGY

WW 110 WATER/WASTEWATER MECHANICAL LAB I (3-8-5)(F). Introduction to and use of hand tools, power tools, bench mounted tools and presses. Nomenclature of the various types of pumps, blowers, air compressors, clarifiers and other machinery used in water/wastewater treatment. Reading blueprints and schematics, learning basic skills of pipefitting.

WW 111 WATER/WASTEWATER MECHANICAL LAB II (3-8-5)(S). Hands on assembly and disassembly of the various pieces of machinery used in the treatment processes. Installation of packing and mechanical seals in pumps and valves. PREREQ: WW 110.
Welding and Metals Fabrication—Eleven Month Program

Certificate of Completion
Instructor: Ron Baldner

The Welding/Metal Fabrication Program provides the student with instruction, practical experience, and related theory in shielded metal arc welding (SMAW), gas metal arc welding (GMAW/MIG), flux cored arc welding (FCAW), gas tungsten arc welding (GTAW/TIG) (Heli-Arc), oxygen-acetylene burn (OA) manual, semi-automatic, and automatic burn, as well as (OA) brazing and welding, plasma-arc cutting of ferrous and non-ferrous metals, and the use of carbon arc cutting equipment. The first 9 months will be basic to intermediate welding. The summer session will be a two-tract design. First, the design will permit students who need more time to satisfy requirements on performance based objectives for the basic portion of the program; and second, to permit the advanced student to further their skills, and to concentrate in more technical areas.

The program is designed to produce skilled workers in the areas of welding and blueprint interpretation as well as layout and fitting. The student will do all lab work based upon performance based objectives. Students will utilize all tools and equipment in their trade with a continual emphasis on safety.

SUBJECTS

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab W 101-102-103</td>
<td>5</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>Theory W 151-152</td>
<td>4</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Blueprint Read &amp; Layout W 121-122</td>
<td>3</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Welding Communication W 111</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occupational Relations W 262</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>15</td>
<td>15</td>
<td>7</td>
</tr>
</tbody>
</table>
Graduate Program Coordinators

Business: David F. Groebner, Ph.D., Professor, College of Business
Communication: Robert R. Boren, Ph.D., Chairperson and Professor of Communication
Education: Kenneth L. Hill, Ed.D., Associate Dean, College of Education
English: Candy A. Martin, Ph.D., Chairperson and Professor of English
Exercise & Sports Studies: Glenn R. Potter, Ed.D., Chairperson and Professor of Physical Education
Geology: Craig White, Ph.D., Chairperson and Associate Professor of Geology and Geophysics
Geophysics: John R. Pelton, Ph.D., Associate Professor of Geology and Geophysics
History: Errol D. Jones, Ph.D., Associate Professor of History
Interdisciplinary Studies: Phillip Eastman, Ph.D., Professor of Mathematics, Associate Dean, College of Arts and Sciences
Music: Jeanne Marie Belty, Ph.D., Associate Professor of Music
Public Affairs: James B. Weatherby, Ph.D., Associate Professor and Director of Public Affairs
Raptor Biology: Marc Joseph Bechard, Ph.D., Professor, Department of Biology

Admission As A Graduate Student

The Graduate Admissions Office of the Graduate College provides admissions counseling, evaluates all transcripts for admission to graduate programs and verifies the completion of admission requirements. Students holding a bachelor's or higher degree can be classified as graduate, senior, sophomore or special for purposes of financial aid application and fee payment. Students should contact the Graduate Admissions Office for clarification of this policy.

Admission requirements for students pursuing master's degrees vary according to the graduate program. Please see the graduate program requirements listed below.

1. All students holding a bachelor's or higher degree must submit an application for admission to the Graduate Admissions Office and pay a nonrefundable $15.00 application fee.

2. All graduate students, except the categories exempted below, must submit official transcripts from each post-high school institution attended directly to the Graduate Admissions Office. An official transcript is one certified by the issuing institution and mailed by that institution directly to the Graduate Admissions Office.

Exempt categories: Students pursuing general graduate study or undergraduate courses of interest.

Programs

Boise State University offers the following graduate degrees: Master of Business Administration, Master of Arts in Communication, Master of Arts/Science in Education, Master of Arts in English, Master of Science
Graduate College

In Exercise and Sports Studies, Master of Public Affairs, Master of Arts in History, Master of Music, Master of Arts/Science in Interdisciplinary Studies, Master of Science in Raptor Biology, a Master of Science in Geology in cooperation with Idaho State University and a Master of Science in Geophysics.


The Master of Public Affairs Degree Program has three areas of emphasis: (1) General, (2) Human Services, and (3) Criminal Justice.

Graduate Faculty

The graduate faculty is comprised of those full-time faculty who have been approved by the Graduate Council to teach graduate level courses, participate in the conduct of the graduate programs and supervise graduate students. Members of the graduate faculty are reviewed on a three year cycle to document their participation in graduate education activities.

Part-time faculty who are approved by the Graduate Council to teach a graduate course or serve on graduate committees, are appointed as adjunct graduate faculty. Such appointments are for specific assignments and are renewable but not perpetual.

General Information for Graduate Students

Application for admission to the Graduate College may be made at any time. However, there are admission deadlines for some programs and these are listed under the program description. It is recommended, however, that at least two months before the initial enrollment, the Office of Graduate Admissions will have received the application for admission, $15.00 application processing fee, official transcripts of all undergraduate and graduate work and any predictive exam scores. This will provide sufficient time to process the application prior to the semester the applicant wishes to commence graduate study. The transcripts are to be sent directly to the Boise State University Office of Graduate Admissions by the Registrar of the college or university which the applicant previously attended. For that purpose the applicant should communicate with the Registrars concerned and then allow them sufficient time to process and mail the transcripts. Applicants are strongly advised to submit the application for admission and the $15.00 application processing fee prior to requesting transcripts.

Graduate students pursuing a second baccalaureate degree must meet all the requirements and follow the same policies and procedures that apply to undergraduates in the same degree program. For example, some baccalaureate programs require admission to upper division standing with a specific grade point average, or have certain enrollment restrictions. Carefully read the program description and requirements for the undergraduate program you plan to pursue in order to determine your eligibility.

All documents received by the University in conjunction with applications for admission become the property of Boise State University. Under no circumstances will they be duplicated except for University advisement, nor the original returned to the applicant or forwarded to any agency or other college or university.

Admission to the Graduate College

A student may be admitted to the Graduate College at Boise State University when the following admissions criteria have been met:

1. The applicant has earned a baccalaureate degree from an accredited institution, or furnishes proof of equivalent education.

2. The applicant has maintained a grade point average which meets the minimal requirements of the college in which he or she wishes to enroll.

3. Completion of the predictive examination required by the department as listed under department criteria.

4. Recommendation for admission by the department in which the applicant expects to work and approval by the Graduate College.

Graduate Status Classification for Matriculated Students:
All applicants are admitted to the Graduate College initially with unclassified status and retain this status until they have been accepted into a graduate program with either provisional or regular status. Credits earned by a student in unclassified status may not necessarily be accepted towards a graduate degree if the student applies for and is admitted to a graduate program at a later time. No more than nine credit hours taken in unclassified status may be included in any graduate degree program without waiver by the Graduate Dean upon recommendation by the school or department in which the student will work.

Provisional Status: Applicants may be admitted to the Graduate College with provisional status if the department or academic unit in which they plan to study requires additional evidence of their qualification for admission with regular status. No student may maintain provisional status indefinitely. The department or academic unit concerned will normally make a final determination of students with provisional status by the time they have completed twelve credits of approved study.

Regular Status: The applicant has been admitted with full graduate standing into a graduate degree program.

Graduate Courses for Undergraduate Credit
Boise State University seniors may take up to two 500 level courses for Upper Division credit applied to their baccalaureate degree program. The necessary permit forms are available through the Graduation Evaluators Office. Determination of what constitutes a senior for the purpose of this policy is left to the Graduate Dean.

Graduate Credit for Seniors

A Boise State University senior with the approval of the department in which he or she plans to work and the Graduate Dean, may enroll for graduate credit during his senior year. These credits will not prejudice his or her graduation during that academic year. The necessary Senior Permit Forms are available at the Graduation Evaluators Office. Credits earned in this manner are "reserved" to count toward a graduate degree at BSU.

Scholarship Requirements

Academic excellence is expected of students doing graduate work. A student whose academic performance is not satisfactory may be withdrawn from the degree program by the Dean of the Graduate College upon the recommendation of the department or academic unit concerned.

To be eligible for a degree in the Graduate College, a student must achieve a grade point average of B (3.00) or better in all work exclusive of deficiencies, specifically included in his or her program of study. No grade below B may be used for any 300 or 400 level courses in a graduate program. Grades below C cannot be used to meet the requirements of a graduate degree. Grades on transfer work will not be included in computing grade point average.

Repeat, Retake Policy: A student who earns a grade of D in a graded 500 level course at BSU may include no more than one repeated course toward a Master's Degree Program. A student who earns a grade of F may not count a retaken course toward any Master Degree Program at Boise State University. Therefore, a student who receives an F in a required course is automatically excluded from further Master degree work. With a D in one of these courses there is a single chance of redemption.

Credit Requirements: A minimum of thirty semester credits of coursework approved by the graduate student's supervisory committee is required. More than thirty semester credits may be required in certain programs.

Supervisory Committee Assignment: Upon admission of the applicant with regular graduate status, a supervisory committee, consisting of a chairperson and other faculty members, will be appointed by the department fielding the program. This supervisory committee or the advisor, as determined within each degree program of study, will establish with the student a program of study, direct any thesis or graduate projects and administer final examination(s).

Students admitted with provisional status will be assigned a temporary advisor who will be responsible for building a tentative program of study. This advisor will guide the student with respect to meeting the stipulations of the provisional admission. Once the provisional stipulations have been satisfactorily met by the student, the department con-
cerned will recommend to the Dean of the Graduate College that the student be admitted with regular graduate status.

**Residence Requirements:** A minimum of twenty-one semester credits of approved graduate work taken on the university campus is required. This requirement does not apply to students enrolled in any inter-institutional cooperative graduate program offered jointly by BSU and the other Idaho universities.

**Transfer of Credits:** A maximum of nine semester graduate credits taken at other institutions may be transferred for credit toward a Master degree provided the courses are an acceptable part of the program of study planned by the student's supervisory committee. Such courses must have been taken in an accredited college or university. Only courses with a B or lower grade may be transferred to Boise State University for application to a graduate degree. In general, the transfer of extension credits is discouraged. Exception may be made by departments after a detailed examination of the specific courses taken. No correspondence course will be accepted for graduate credit. All appropriate graduate work taken through inter-institutional cooperative graduate programs, if approved by the college fielding the program, can be accepted as residence credit.

**Challenge Policy:** The provisions of the challenge policy stated in the Catalog Section, “Admission Requirements to the College” under subsection “Challenging Courses, Granting Credit by Examination” apply to graduate courses. In particular, the decision to allow or not to allow challenges will be made by the department fielding the course to be challenged. For interdisciplinary courses, the decision will be made by the college officer in charge of the graduate program to which the course applies.

**Program Admission and Continuation Requirements**

**Application for Predictive Examinations:** Predictive examination scores may be required by certain departments. With respect to those departments which stipulate as part of the admissions criteria performance scores from predictive examinations, it is necessary that application be made without delay to take the examination. Education and Public Affairs students are not required to take a predictive examination.

Students wishing to pursue graduate study in Business Administration should contact the Office of the Dean, College of Business, Boise State University, or the Graduate Admissions Office to secure the forms necessary to make application for taking the predictive examination called the GMAT. Every effort should be made to take the GMAT as soon as possible because students will not be given program status before the GMAT results are reported. Courses taken before the student is admitted (i.e., “Unclassified Status” courses) will not necessarily be allowed toward the MBA even if the student is admitted subsequently.

Students wishing to pursue graduate study in Geology, Geophysics, Interdisciplinary Studies, Public Affairs, or Raptor Biology should contact the Graduate Admissions Office to secure application forms for taking the GRE.

**Program Development Form:** Graduate students with regular or provisional status will complete a Program Development Form with their advisor or committee before the end of the first academic period (summer, fall or spring) in which they take graduate work at Boise State University, after having been notified of admission with regular or provisional status.

The Program Development Form will be available from the colleges offering graduate degree programs. The advisor or committee will file the Program Development Form with the Graduate College upon completion. Each change in program must be completed by filing a new Program Development Form showing the changes from the previous form.

Any courses being offered as transfer credit, as credit reserved, or as residence credit through any inter-institutional cooperative program must be claimed at the time the Program Development Form is originally filed, or before the end of the first academic period (summer, fall or spring) after which the credit has been earned, whichever is the earlier date.

It is the responsibility of the graduate student to keep all program changes up to date for a graduate degree.

**Time Limitations:** All work offered toward a Master’s degree from Boise State University must be completed within a period of seven calendar years. The seven-year interval is to commence with the beginning of the oldest course (or other academic experience) for which credit is offered in a given Master Degree Program, and the interval must include the date of graduation when the Master degree from BSU is given.

**Foreign Language Requirements:** Language requirements are determined by the department concerned. If a foreign language is required, students must demonstrate that they possess a reading knowledge of a language specified by the department.

**Thesis Requirements:** The requirement of a thesis or similar project is determined by the department or interdisciplinary unit concerned. The final copy of the thesis must be reviewed by the student’s supervisory committee and submitted to the Dean of the Graduate College at least three weeks before commencement.

**Candidacy:** Students should apply for admission to candidacy and graduation as soon as they have completed twelve hours of graduate work with a grade point average of at least 3.00 in an approved graduate program of study, have removed all listed deficiencies, and have met any specific foreign language requirements.

Candidacy involves specifying, on the appropriate form, the list of courses and projects which comprise the student's program. Changes in the planned program after admission to candidacy must be recommended in writing by the student’s committee or advisor and be approved by the Dean of the Graduate College.

**Final Examination Requirements:** The requirements of a final examination, written, oral, or both, in any non-thesis non-project program are optional with the department or interdisciplinary unit which fields the student’s program. When the examination is required, it is administered by the unit concerned. The dates for these examinations are set by the Graduate College once each semester and summer session. They are listed in the calendar of the BSU catalog. A student is not eligible to apply for the final examination until he or she has been admitted to candidacy (filed the candidacy and graduation form.)

Failure in the examination will be considered terminal unless the supervisory committee recommends, and the Dean of the Graduate College approves, a re-examination. Only one re-examination is permitted. At least three months must elapse before a re-examination may be scheduled.

The requirement of a final examination in defense of any thesis or project is optional with the department or interdisciplinary unit concerned. When required, a final examination in defense of the thesis or project must be conducted at least three weeks before commencement. On a final examination in defense of a thesis or project, an additional member, who may be from outside the department or college, may be appointed by the Graduate Dean at his discretion. Application for the final comprehensive examination(s) is made through the office of the dean of the college fielding the program.

**Course Numbering System:** Courses numbered 500 and above are intended primarily for graduate students. Some graduate courses have a standard numbering system throughout the university.

**University-Wide Numbers of Graduate Offerings:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>580-589</td>
<td>Selected Topics</td>
</tr>
<tr>
<td>590</td>
<td>Practicum</td>
</tr>
<tr>
<td>591</td>
<td>Project</td>
</tr>
<tr>
<td>592</td>
<td>Colloquium</td>
</tr>
<tr>
<td>593</td>
<td>Research and Thesis</td>
</tr>
<tr>
<td>594</td>
<td>Extended Conference or Workshop (grad A through F)</td>
</tr>
<tr>
<td>595</td>
<td>Reading and Conference</td>
</tr>
<tr>
<td>596</td>
<td>Directed Research</td>
</tr>
<tr>
<td>597</td>
<td>Special Topics</td>
</tr>
<tr>
<td>598</td>
<td>Seminar</td>
</tr>
<tr>
<td>599</td>
<td>Short-Term Conference or Workshop*</td>
</tr>
</tbody>
</table>

*Graded Pass or Fail. This number is available in any semester or session for courses meeting 3 weeks or less.
Graduate College

Credit Limitation in Courses Graded Pass or Fail and Directed Research: A maximum of six credits earned with a grade of P will be allowed toward the credit requirements for a Master's degree. Master's programs may include directed research credits, at the discretion of the graduate student's supervising committee or professor, through a limit of nine credit hours, with no more than six credits in any one semester. Only three credits of Internship and/or Directed Research may be applied to the MBA degree requirements.

Undergraduate Courses for Graduate Credit: Courses other than graduate, numbered at the 300 or 400 levels, may be given g or G designation to carry graduate credit. The department or college concerned will have the right to limit the number of g or G credits which can count toward any degree for which it has responsibility, and in no case can more than one-third of the credits in a degree program be in courses at the 300 or 400 level. No course numbered below 500 carries graduate credit unless the g or G is affixed.

1. g courses carry graduate credit only for graduate students in majors outside of the area of responsibility of the department or college.
2. G courses carry graduate credit for students both in the department or college and for other students as well.
3. Graduate students enrolled in G or g courses will be required to do extra work in order to receive graduate credit for the courses.

Application for Graduate Degree

The last step in completing a graduate program consists of arranging for final record checking. To accomplish this, one completes the form 'Application for Graduate Degree' which can be obtained from the Graduate Admissions Office. This form, with all appropriate signatures, is to be submitted to the Graduation Office along with a $10.00 diploma fee. The form must be submitted by the deadline set each semester for applying for graduation. Check the Academic Calendar for the deadline date.

Master of Business Administration

College of Business

Objectives

The objective of the Boise State University program leading to the graduate degree is to prepare candidates for top level administrative positions in their chosen field. The MBA degree emphasizes the traditional approach of preparing students for general management, with a common body of functional knowledge given to all students. Once a student satisfies the functional core of courses, electives are available for achieving a minor degree of concentration.

Matriculation Requirements

General Prerequisites for Applicants: Admission will be granted to applicants who hold a Bachelor's degree from an accredited college or university and who meet the standards set by the College of Business of Boise State University. Common to all programs is a foundation of course work in basic fields of Business Administration. Students holding a Bachelor's degree in Business normally will have completed most of these requirements as part of their undergraduate program. The Master of Business Administration program is also designed to serve the student who has completed his or her Bachelor's degree in non-Business fields such as the Sciences, Engineering, and the Liberal Arts.

In addition to the application requirements of the Graduate College, all MBA applicants should submit:
1. a demonstration of written communication skills (particulars available from the MBA Program Coordinator), and
2. two letters of reference, one, preferably, from an academic source.

Specific Prerequisites for Applicants: All applicants must meet the following undergraduate requirements or must fulfill these requirements prior to enrolling in the graduate classes. (New applicants for the programs should furnish documentary evidence of GMAT scores and copies of official transcripts upon initial application. For fall enroll-

Degree Requirements

The MBA Degree

The Master of Business Administration degree consists of a maximum of 57 semester hours of credit from the offerings listed on the following pages or other graduate courses suitable to an MBA degree, as accepted by the MBA Admissions Committee.

Foundation Courses .................................................................................................................. 27
Advanced Courses .......................................................................................................................... 21
Electives ......................................................................................................................................... 9

Depending upon their undergraduate coursework, students may select 3-6 credit hours from the 400 level "G" courses from the undergraduate College of Business program. Only those courses listed on the following pages are approved. Advisors should be consulted regarding those courses.

Course Offerings

See page 20 for definition of course numbering system

MBA—Course Descriptions

FOUNDATION COURSES

These courses assume that the student has had no previous coursework in business. Conversely, any or all of these courses may be waived if the student has already taken them at an accredited business school, such as would be the case if the student had completed a baccalaureate degree in business.

AC 511 ACCOUNTING FOR MANAGERS (3-0-3)(F). The student can expect to develop a working knowledge of financial and managerial accounting tools, techniques and procedures.

DS 513 BUSINESS STATISTICS (3-0-3)(F). This course examines the use of statistics in decision-making. Presentation and summarization of data, estimation, hypothesis testing, regression analysis, analysis of variance, time series and forecasting, and non-parametric methods.

DS 523 PRODUCTION AND SYSTEMS MANAGEMENT (3-0-3)(S). This course stresses the management of the production function: analysis, design and layout, scheduling, and motion study, quality control, and material acquisition. Also included are management information systems and the system's development process from feasibility study through system implementation. PREREQ: DS 513.

EC 514 ECONOMIC THEORY AND ANALYSIS (3-0-3)(F). This course is an accelerated, integrated introduction to economic analysis of the price system and the aggregate performance of developed economies. Supply and demand, basic market structures, income distribution, employment, inflation, growth and international trade.

FI 525 CORPORATE FINANCE (3-0-3)(S). Concepts and techniques of corporate institutional and investment finance are examined. These include time value of money, corporate banking relationships, current assets management, and efficient markets. PREREQ: AC 511, DS 513.
GB 516 LAW FOR MANAGERS (3-0-3)(F). This course explores the history and development of the partnership and corporate forms of business organization and the legal environment which creates and regulates a manager's duties toward the corporation, employment responsibilities to employees and the general public.

MG 528 ORGANIZATIONAL THEORY AND BEHAVIOR (3-0-3)(S). This course covers the process of planning, organizing, directing, and controlling. Main topics include theories of organizational performance, structure and design, interpersonal and leadership skills. Emphasis is placed on application of theory to business situations and development of interpersonal skills.

MK 529 MARKETING MANAGEMENT (3-0-3)(F). This course includes a comprehensive examination of the activities and models used in marketing. It also includes identifying and interpretingbuyers' needs, market segmentations, and designing a balanced marketing program.

ADVANCED COURSES

AC 531 ACCOUNTING—PLANNING AND CONTROL (3-0-3)(F). This course includes the study of the planning and control processes to assist in the making of business decisions. Problems and cases are considered in profit planning and analysis, cost and analysis for pricing and capital budgeting. The overall objective is an understanding of techniques of cost planning and control. PREREQ: AC 511 or equivalent.

DS 533 DECISION ANALYSIS (3-0-3)(F). A study of decision-making in complex situations. Aids for identifying and modeling the decision problem, analyzing and responding to multiple objectives, utilizing subjective inputs, and evaluating and incorporating information. PREREQ: DS 513 or equivalent.

FI 545 ADVANCED FINANCIAL MANAGEMENT (3-0-3)(F). An analysis of financial planning and control in the dynamic environment of changing financial markets. Risk-return analysis, capital budgeting, debt-equity financing, dividend policy, and merger and acquisitionst are major topics. PREREQ: EC 514 or equivalent.

GB 536 BUSINESS IN A GLOBAL SOCIETY (3-0-3)(F). This course is an examination of the interaction between business and the economic, social, political and legal order on a national and international basis. A case approach is used to focus attention on effects of this broad environment on managers. Some ethical issues and cross-cultural issues are explored. PREREQ: GB 516 or equivalent.

GB 546 STRATEGIC MANAGEMENT (3-0-3)(F). This capstone course integrates concepts, practices and methods in strategic planning and environmental analysis. Emphasis is on the evaluation of existing strategy, business risks and opportunities and on the development of long-term plans and programs, executive and managerial controls. PREREQ: AC 531, DS 533, FI 545, MK 539 and MG 538.

MG 538 MANAGING PEOPLE IN ORGANIZATIONS (3-0-3)(F). This course is a systematic approach to the major phases of human resource management in organizations, including knowledge bases and theories, problems, constraints, opportunities, program controls, evaluations and costs, and results of effective and efficient human resource management. PREREQ: MG 528 or equivalent.

MK 539 STRATEGIC MARKETING MANAGEMENT (3-0-3)(F). An analysis and integration of marketing concepts and models with organizational, financial, managerial, and competitive constraints. Emphasis on identifying opportunities, problems, selection, and development of alternatives. Also formulation and implementation of strategies, plans, and programs. Consumer, industrial, institutional and international markets included. PREREQ: MG 529 or equivalent.

MBA—Elective Courses

AS 512 COMMUNICATION TECHNIQUES FOR MANAGERS (3-0-3)(Intermittent). Analysis of management communication requirements in business. Development of a critical sense and analytical ability through evaluation of research, reports, and case studies. Writing and speaking skills emphasized through written reports, oral presentation and small group activities.

DS 512 STATISTICAL METHODS FOR BUSINESS DECISIONS (3-0-3)(Intermittent). The application of the techniques and the reason for their employment in decision processes. Computer application programs are employed to assist in the learning process. Topics generally covered include: multiple regression analysis, forecasting and multivariate analysis. PREREQ: DS 523 or equivalent courses.

DS 514 OPERATIONS RESEARCH METHODS FOR DECISION MAKING (3-0-3)(Intermittent). An introduction to operations research, applying quantitative tools and interpreting the results. Particular attention is given to using the computer to analyze quantitative models. Typical areas covered are: linear programming, network models, and inventory control theory. PREREQ: DS 523 or equivalent courses.

EC 560 ECONOMICS OF PUBLIC POLICY (3-0-3)(F). Contribution of economic analysis to the justification, design and implementation of public policy. The issues surrounding the need for public policy in a private property market economy and the benefits and costs associated with government intervention. The relationships between the goals and the instruments of U.S. economic policy. PREREQ: EC 514.

GB 545 INTERNATIONAL BUSINESS (3-0-3)(F). An overview of (1) the international business environment; (2) country characteristics and conditions affecting firms that conduct business overseas; and (3) firm level decisions about marketing, finance and personnel, and other functions.

IS 542 INFORMATION SYSTEMS (3-0-3)(F). This course is a study of the impact of the computer on managers and on the environment in which managers work. Topics include data-base, MIS, the impact of information systems on management and the management decision process, and the actual management and control of information systems. Selected computer applications are explored.

MG 541 HUMAN RESOURCE MANAGEMENT (3-0-3)(F). Effective management of human resources including discussion of the supervisory processes conducive to reducing labor costs and increasing productivity. Special attention is given to human, organizational, and environmental constraints which limit managerial actions. Techniques for effectively functioning within these constraints.

MK 520 MARKETING PROBLEMS (3-0-3)(Intermittent). Analytical approach to marketing problem solving and decision making. Covers market definition, personal selling, advertising and sales promotion, distribution channels, strategy formulation, product development procedures, and customer services. Case study approach is utilized.

Selected Topics Contemporary topics courses offered intermittently.

AC 580 SELECTED TOPICS — Accounting (3-0-3).
EC 582 SELECTED TOPICS — Economics (3-0-3).
FI 583 SELECTED TOPICS — Finance (3-0-3).
IS 581 SELECTED TOPICS — Information Systems (3-0-3).
MG 584 SELECTED TOPICS — Industrial Psychology (3-0-3).
MG 585 SELECTED TOPICS — Management (3-0-3).
MK 586 SELECTED TOPICS — Marketing (3-0-3).

590 INTERNSHIP. Available on a selective, limited basis. MBA students should consult with pertinent faculty and coordinator.

596 DIRECTED RESEARCH (1-3 credits). Involves special projects undertaken by the student, consisting of individual work suited to the needs and interests of the student. The course embodies research, discussions of the subject matter and procedures with a designated professor, and a documented paper covering the subject.

Undergraduate "C" Courses. At most two of the following courses may be taken for graduate credit if cleared by the Graduate Program Coordinator. See appropriate department listings for complete course descriptions.

AC 440G ACCOUNTING THEORY (3-0-3)(S).
PR 408G OPERATIONS MANAGEMENT (3-0-3)(F).
EC 421G-422G ECONOMETRICS (3-0-3)(F).
FI 410G WORKING CAPITAL MANAGEMENT (3-0-3).
FI 411G CAPITAL BUDGETING AND PLANNING (3-0-3).
FI 420G MANAGEMENT OF FINANCIAL INSTITUTIONS (3-0-3)(F).
FI 421G DECISION PROCESSES IN BANKING (3-0-3)(S).
FI 450G INVESTMENT MANAGEMENT (3-0-3)(F).
FI 451G FRONTIERS IN FINANCIAL MARKETS (3-0-3)(S).
GB 441G GOVERNMENT AND BUSINESS (3-0-3)(F).
MK 415G MARKETING RESEARCH (3-0-3)(F).

Master of Arts in Communication
School of Social Sciences and Public Affairs

An MA in Communication includes a common core of courses required of all graduate students in Communication. Beyond the graduate core, students design their program of study by selecting from courses offered as Selected Topics in Communication and from courses approved for graduate credit throughout the university. The MA experience culminates in successful completion and defense of a Project (CM 591) or Thesis (CM 593).

Degree Requirements

<table>
<thead>
<tr>
<th>Master of Arts in Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Studies in Communication CM 500.................................................. 3</td>
</tr>
<tr>
<td>Communication Theory &amp; Research CM 501...................................................... 3</td>
</tr>
<tr>
<td>Selected Topics in Communication CM 580-589............................................. 12</td>
</tr>
<tr>
<td>Electives........................................................................................................ 6</td>
</tr>
<tr>
<td>Graduate Seminar CM 598................................................................................ 1</td>
</tr>
<tr>
<td>Project CM 591 OR Thesis CM 593................................................................. 6</td>
</tr>
<tr>
<td>TOTAL........................................................................................................... 31</td>
</tr>
</tbody>
</table>
Graduate College

Course Offerings

See page 20 for definition of course numbering system

CM Course Descriptions GRADUATE

CM 500 GRADUATE STUDIES IN COMMUNICATION (3-0-3). Studies the history of communication, the modes of inquiry into communication, the contemporary structure of the field, and expectations about scholarly activity within the discipline.

CM 581 COMMUNICATION THEORY AND RESEARCH (3-0-3). Examines explanatory, interpretive and critical theories of scientific inquiry as they relate to the study of human communication. Examines the theory and methodology of qualitative and quantitative research into human communication. PREREQ: CM 500.

CM 580-589 SELECTED TOPICS IN COMMUNICATION (Variable credit). Intensive study of selected topics in each area. Specific course content will vary from semester to semester. Consult current class schedule for specific topics to be offered each semester. Courses may be repeated for a total of six credits in each course.

CM 580 SELECTED TOPICS — COMMUNICATION THEORY AND PHILOSOPHY
CM 581 SELECTED TOPICS — COMMUNICATION RESEARCH METHODOLOGY
CM 582 SELECTED TOPICS — COMMUNICATION EDUCATION
CM 583 SELECTED TOPICS — COMMUNICATION TECHNOLOGY
CM 584 SELECTED TOPICS — JOURNALISM AND MASS COMMUNICATION
CM 585 SELECTED TOPICS — LANGUAGE LAW AND POLICY
CM 586 SELECTED TOPICS — COMMUNICATION AND PUBLIC AFFAIRS
CM 587 SELECTED TOPICS — ORGANIZATIONAL COMMUNICATION
CM 588 SELECTED TOPICS — INTERPERSONAL COMMUNICATION
CM 589 SELECTED TOPICS — COMMUNICATION HISTORY
CM 598 GRADUATE SEMINAR (1-0-1).

Upon selection of an approved project or thesis, the student will prepare a documentary and an oral report of the topic, defending it before fellow graduate students and faculty.

CM 590 PRACTICUM
CM 591 PROJECT
CM 592 COLLOQUIUM
CM 593 THESIS
CM 594 WORKSHOP
CM 595 READING AND CONFERENCE
CM 596 DIRECTED RESEARCH
CM 597 SPECIAL TOPICS
CM 598 SEMINAR

Master of Arts or Science in Education

College of Education

The College of Education offers two Master's degrees: Master of Arts or Science in Education and Master of Science in Exercise and Sport Studies.

The Associate Dean of the College of Education has been assigned the authority and responsibility for the overall administration and operation of the graduate programs in the College.

A Master's degree in Education with emphases in Art, Curriculum & Instruction, Early Childhood, Earth Science, Instructional Technology, Mathematics, Music, Reading and Special Education is presented through the Department of Teacher Education, the related subject departments and the College of Education.

Application for admission to the graduate program in Education may be made at any time. It is recommended, however, that at least two months before the first enrollment, the Graduate Admissions Office will have received the application for admission, $15.00 application processing fee and official transcripts of all undergraduate and graduate work. The transcripts are to be sent directly to the Boise State University Graduate Admissions Office by the Registrar of each college or university which the applicant previously attended.

Admission will be granted to an applicant who holds a Bachelor's degree from an accredited college or university and who has some professional relationship to instruction. The candidate must show promise of meeting the standards set by the College of Education and participating departments as well as the specific regulations of the particular program for which he or she applies.

An applicant for regular status in the program must have attained a GPA of at least 3.00 for the last two years of undergraduate study, or an overall GPA of 2.75. Provisional status may be granted to an applicant not meeting the listed requirements, if deemed appropriate.

The name of the faculty member who will serve as chairperson of the candidate's advisory committee is listed in the letter of acceptance to the applicant. Candidates should contact the assigned committee chairperson (advisor) as soon as possible in order to plan a program. Credits taken prior to such planning are subject to the review and approval of the committee chairperson and the Associate Dean of the College of Education.

A maximum of nine semester graduate credits may be accepted from other accredited graduate schools upon approval of the chairperson of the candidate's committee and the Associate Dean of the College of Education. A maximum of six semester credits of pass-fail credits will be allowed in the degree program.

Six semester hours of credit will be open for selection in any area of the University's course offerings that will enable the candidate to strengthen a competency identified in his or her program. The candidate in cooperation with the advisor, will choose courses which will meet the individual's program objectives.

Those students selecting one of the following areas of emphasis will follow the procedures set forth by respective departments: Art, Earth Science (Department of Geology/Geophysics), and Mathematics.

Graduate Core: The Graduate Core is required of all candidates for a Master of Arts or Science in Education, except those seeking the Instructional Technology emphasis.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 570 Graduate Core-Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>TE 563 Conflicting Values in Education</td>
<td>1</td>
</tr>
</tbody>
</table>

Elective Courses (Select two from the following) 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 561 Law for the Classroom Teacher</td>
<td>1</td>
</tr>
<tr>
<td>TE 562 School Organization and Finance</td>
<td>1</td>
</tr>
<tr>
<td>TE 564 Instructional Techniques—Secondary School</td>
<td>1</td>
</tr>
<tr>
<td>TE 565 Interpreting Educational Research</td>
<td>1</td>
</tr>
<tr>
<td>TE 566 Learning Theory and Classroom Instruction</td>
<td>1</td>
</tr>
<tr>
<td>TE 568 Techniques of Classroom Management</td>
<td>1</td>
</tr>
<tr>
<td>TE 569 Testing and Grading</td>
<td>1</td>
</tr>
<tr>
<td>TE 573 Instructional Techniques—Elem School</td>
<td>1</td>
</tr>
<tr>
<td>TE 578 Parents in the Educational Process</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL 6

Additional credits to the above will be determined by the respective departments.

Master of Arts in Education

Department of Teacher Education

Option Requirements

The Education Graduate Program provides two options for those selecting one of the following emphases: Curriculum and Instruction, Early Childhood, Reading, or Special Education: Option I Thesis/Project and Option II Written Comprehensive Examination.

<table>
<thead>
<tr>
<th>Option</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPTION I (Thesis/Project)</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 551 Fundamentals of Education Research</td>
<td>3</td>
</tr>
<tr>
<td>TE 591 or TE 593 Thesis or Project</td>
<td>6</td>
</tr>
</tbody>
</table>

Approved electives and specific requirements 18

TOTAL 33

A Thesis/Project, as mutually agreed upon by the candidate and the committee, is required. Selection of a thesis implies a research emphasis with a thesis format. Selection of a project implies a project related to instruction, curriculum, or some other aspect of an educational program.
### Curriculum and Instruction Emphasis

1. **Graduate Core** .......................... 6
2. TE 581 Curriculum Planning and Implementation .................................. 3
3. TE 582 Instructional Theory .......................................................... 3
4. Content area courses ................................................................. 9
5. Elective options (choose I or II below)
   I. Thesis/Project
     TE 551 Fundamentals of Education Research .................................. 3
     TE 591 or 593 Thesis or Project ............................................... 6
     Approved electives ......................................................................... 3
   OR
   II. Comprehensive Written Examination
     TE 559 Philosophy of Education .................................................. 3
     TE 551 Fundamentals of Education Research .................................. 3

   NOTE: Students electing Option II must take a research class,
   which may be TE 565 Interpreting Educational Research (1 credit)
   as part of core or TE 551 Fund. of Educational Research (3 credits).

   Approved electives ........................................................................... 9
   TOTAL 33

### Early Childhood Emphasis

1. **Graduate Core** .................................................. 6
2. TE 543 Early Childhood: Readings ................................................. 3
3. Two of the following three courses: .............................................. 6
   TE 544 Early Childhood: Advanced Child Development .................. 3
   TE 546 Early Childhood: Environments & Programs ....................... 3
   TE 547 Early Childhood: Language Acquisition & Dev ................... 3
4. TE 590 Practicum: Early Childhood .............................................. 1.4
5. Option electives (choose I or II below)
   I. Thesis/Project
      TE 551 Fundamentals of Edu. Research ....................................... 3
      TE 591 or 593 Thesis or Project ............................................... 6
      Approved electives ......................................................................... 3
   OR
   II. Comprehensive Written Examination
      TE 559 Philosophy of Education .................................................. 3
      TE 551 Fundamentals of Edu. Research ....................................... 3

   NOTE: Students electing Option II must take a research class,
   which may be TE 565 Interpreting Educational Research (1 credit)
   as part of core or TE 551 Fundamentals of Educational Research
   (3 credits).

   Approved electives ........................................................................... 9
   TOTAL 33

### Reading Emphasis

For Those Primarily Responsible for Elementary School Instruction

1. **Graduate Core** .................................................. 6
2. TE 501 Foundations of Reading Instruction ..................................... 3
3. TE 502 Diagnosis & Correction of Read. Prob.—Elem ....................... 3
4. TE 504 Seminar in Reading Education ............................................ 3

5. Option electives (choose I or II below)
   I. Thesis/Project
      TE 551 Fundamentals of Ed. Research ....................................... 3
      TE 591 or 593 Thesis or Project ............................................... 6
      Reading electives ......................................................................... 3
      Approved electives ......................................................................... 3
   OR
   II. Comprehensive Written Examination
      TE 559 Philosophy of Education .................................................. 3
      TE 551 Fundamentals of Ed. Research ....................................... 3

   NOTE: Students electing Option II must take a research class,
   which may be TE 565 Interpreting Educational Research (1 credit)
   as part of core or TE 551 Fundamentals of Educational Research
   (3 credits).

   Reading electives ........................................................................... 9
   Approved electives ........................................................................... 6
   TOTAL 33

### Special Education Emphasis

For Students Interested in an Emphasis in Educationally Handicapped and/or Severe Retardation

1. **Graduate Core** .................................................. 6
2. TE 514 Counseling/Consulting Skills for Educators .......................... 3
3. TE 515 Adv Theory of Inst Design in Spec Educ ............................... 3
4. TE 523 Emotionally Disturbed Child in the Classroom ..................... 3
5. TE 590 Practicum: Special Education .............................................. 3
6. TE 534 Issues and Trends in Spec Educ .......................................... 3
7. Option electives (choose I or II below)
   I. Thesis/Project
      TE 551 Fundamentals of Edu. Research ....................................... 3
      TE 591 or 593 Thesis or Project ............................................... 6

   TOTAL 33

NOTE: Completion of the required courses in the Master of Arts in
Education may not qualify the candidate for a reading endorsement for state certification.
With the assistance of his or her advisor, the candidate can select appropriate electives to meet
the certification requirements.
This program includes 33 credits of coursework which gives students a wide range of both theoretical and practical experiences, including many opportunities to become involved in actual projects in business, government and education. The program culminates in a practical project involving an actual client organization or a thesis investigating an important and timely issue.

Requirements:
1. TE 536 Intro Instructional Technology .................................. 3
2. TE 537 Instructional Design .................................................. 3
3. TE 551 Fundamentals of Educational Research ....................... 3
4. TE 582 Instructional Theory .................................................. 3
5. TE 588 Instructional Courseware Design ............................... 3
6. TE 583 Selected Topics-Instructional Technology .................... 3
7. TE 520 Video Delivery Systems ............................................. 3
8. TE 591 Project or TE 593 Thesis .......................................... 6

Requirements sub-total 27

Electives:
Students are to take at least 6 credits of elective course work, with at least 3 credits recommended outside of the College of Education.

Suggestions:
Organizational Theory & Behavior MG 528 .......................... 3
Accounting for Managers AC 511 ........................................... 3
Communication Tech for Managers AS 512 ......................... 3
Public Policy Processes PA 501 ............................................ 3
Conflict & Change in Socio-Cult Systems SO 510 .................... 3
Curr Plan & Implem TE 581 .................................................. 3
Artificial Intelligence Appl TE 539 ......................................... 3
Electives sub-total 6
PROGRAM TOTAL 33

Second Master's Degree
A student who has earned a master's degree in Education from Boise State University may earn a second degree in another area of emphasis.

Guidelines for the Award of a Second Master's Degree.
1. A candidate must meet all program requirements prescribed by the second master's curriculum.
2. Program requirements for the second degree that have already been met in the program for the first degree awarded may be counted toward the second degree at the discretion of the student's graduate committee.
3. A minimum of 21 credits of new course work shall be required for the second degree.
4. The seven-year time limit applies to all courses to be counted toward the second degree.

Planned Fifth Year
Purpose: Continuing education is a vital element in maintaining professional competence among teachers. Yet not all teachers desire the structure and demands imposed by a master's program. The purpose of the Planned Fifth Year is to enable and encourage teachers to further their professional growth and meet career goals through a planned and intellectually rigorous program of study. The goals of the program are largely determined by the candidate. The candidate may choose 1) to broaden or deepen knowledge and skills related to current teaching assignment or, 2) to seek an additional endorsement or advanced certification.

Admission Requirements
1. Be a certified teacher.
2. Meet the admission standards of graduate study (2.75 overall G.P.A. or 3.00 in the last two years of study.

Program Requirements
All students will complete thirty (30) credits including:
1. TE 582 Instructional Theory .................................................. 3
2. Graduate Core OR TWO of the following courses .................... 6
   TE 551 Fundamentals of Educational Research ....................... 3
   TE 559 Philosophy of Education ......................................... 3
3. TE 581 Curriculum Planning and Implementation ................. 3
3. A minimum of 9 credits of content courses ......................... 9
4. Electives ................................................................. 12
TOTAL 30

a. A minimum of 20 credits must be earned after admission.
b. Transfer credits are limited to nine (9).
TE 511 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCHOOL MATHEMATICS (3-0-3XS). Emphasis on creative methods and strategies for teaching elementary school mathematics. Also includes a review of current research, curriculum trends and exploration of experimentation with unique materials for teaching mathematics.

TE 512 ADVANCED PRINCIPLES AND PRACTICES IN TEACHING LANGUAGE ARTS AND LINGUISTICS (3-0-3)F. Emphasis will be given to the role of language arts and linguistics in the school curriculum, stressing modern approaches to language development, semantics, phonetics, phonics, and orthography.

TE 513 ADVANCED PRACTICES AND PRACTICES IN TEACHING ELEMENTARY SCIENCE (3-0-3)F. Current practices and principles in modern elementary science concepts are developed. Emphasis is placed on the selection and organization of content and experimental activities.

TE 514 COUNSELING/CONSULTING SKILLS FOR EDUCATORS (3-1-3)F. This course will cover the development of counseling and consulting skills for educators to work with parents and other professionals. Instruction will focus on developing skills to work with students who experience various social and emotional concerns relating to learning. Major areas to be addressed will include theories and approaches to counseling and consulting, communication skills, intervention programs. PREREQ: GRA (GRAD) or PERM/INST.

TE 515 ADVANCED THEORY OF INSTRUCTIONAL DESIGN FOR SPECIAL EDUCATORS (3-0-3)F. The course is designed to teach students advanced design components to effectively instruct special education children and adults. The course will include the theoretical and programmatic considerations of instructional design. The course may be useful to regular classroom teachers who wish to gain some knowledge in dealing with special students. PREREQ: TE 431 or PERM/INST.

TE 516 TEACHING GIFTED AND TALENTED STUDENTS (3-0-3)S. Teachers and other interventionists working with gifted and talented students will develop skills in the techniques of meeting the educational goals of these exceptional individuals. Methods and materials for this approach will be evaluated as to application and assessment.

TE 517 SEMINAR ON THE SEVERELY HANDICAPPED LEARNER (3-0-3)S odd years. This graduate level course is designed to facilitate student knowledge and skills in relation to teaching the severely handicapped learner. Emphasis is placed on research-based, instructional techniques and current professional issues in the field. PREREQ: TE 423 or PERM/INST.

TE 518 TECHNIQUES FOR CREATIVE WRITING IN ELEMENTARY SCHOOLS (3-0-3)F. Methods and techniques for encouraging creative writing in the elementary school.

TE 519 CHILDREN'S LITERATURE, ADVANCED LEVEL (3-0-3)S. Current literature for children, including emphasis upon poetry is presented. Issues in children's book selection are discussed.

TE 520 VIDEO DELIVERY SYSTEMS (3-0-3)S. Students will investigate the video and audio applications of technology for instruction such as Instructional Television Fixed Service (ITFS), teleconferences, and educational television. PREREQ: TE 537.

TE 521 ELEMENTARY PHYSICAL EDUCATION ACTIVITIES (3-0-3)SU. Methods and techniques for classroom and playground activities for physical education, curriculum development will be presented. Emphasis upon corrective physical education procedures will be given. Alternate years.

TE 522 INDIVIDUALIZATION OF READING INSTRUCTION (3-0-3)SU. Emphasis upon the individualized approach to reading instruction is developed. Techniques of conferencing book selection, skill development and independence in language arts activities are explored.

TE 523 THE EMOTIONALLY DISTURBED CHILD IN THE CLASSROOM (3-0-3). This course is designed to assist teachers, counselors, and administrators in understanding the educational and psychological needs of the emotionally disturbed child. Emphasis is placed on developing skills in identifying emotional problems and planning the remedial steps needed for correction. PREREQ: PERM/INST.

TE 531 EDUCATION FOR THE CULTURALLY DIFFERENT LEARNER (3-0-3)S. A study of the development of children and adolescents in different cultures in comparative relationship to existing values. The lifestyle of various minority groups and implications for education will be examined. Major topics include culturally different learners; (1) learning styles, (2) media, (3) process of change. Idaho minority groups will be emphasized.

TE 534 ISSUES & TRENDS IN SPECIAL EDUCATION (3-0-3) even years. This course will investigate the current issues and trends in the field of special education. It will be organized around six topical areas: 1) identification, 2) assessment, 3) eligibility, 4) service delivery, 5) intervention approaches, and 6) instructional strategies. Discussion will be library based and will focus on all areas of exceptionality in both elementary and secondary school settings. PREREQ: TE 537.

TE 536 INTRODUCTION TO INSTRUCTIONAL TECHNOLOGY (3-0-3). This course will provide students with an overview of the field of Instructional Technology: past, present, and future. Students will learn the historical, philosophical, and theoretical foundations of the field.
Master of Arts in Education—Art Emphasis

1. The Master's Degree in Education, Art Emphasis, is designed to meet the needs of art specialists.

2. The following will be submitted to the Art Department Admissions Committee:
   a. The names and addresses of three art educators or professional persons who are acquainted with the student's academic qualifications to pursue graduate study.
   b. A minimum of twenty (20) slides or portfolio of recent art work.
   c. A statement of the student's professional objectives and philosophy of art education and how these will be furthered by graduate study.

3. Program areas of study are as follows:
   a. Required Courses:
      - Art Appreciation in the Educational Program AR 501 .......................... 3
      - Special Methods: Curr & Develop in Art Educ AR 551 .......................... 3
      - Project Report AR 591 ................................................. 6
      - Thesis (or additional hours) AR 593 .......................................... 6
      - Education Core courses ................................................. 6
      - Studio or Content: Six (6) credits in the studio. Studio concentration and emphasis will be determined by the student and his committee.
      - Electives: The remainder of the student's work may be elected in relation to his background, interests, and professional objectives in consultation with his major advisor and committee.

Course Offerings

See page 20 for definition of course numbering system

AR ART

Graduate

AR 501 ART APPRECIATION IN THE EDUCATIONAL PROGRAM (3-0-3)(F). Emphasis will be placed on understanding the motivations behind interpretation.
of ideas and symbols. Also emphasized will be communication of this understanding to the various age groups represented on the secondary school level.

**PREREQ:** Graduate status or PERM/INST.

AR 521 TEACHING THROUGH EXPERIMENTAL ART MEDIA (0-6-3)(SU). (Previously approved for Elementary Master's Degree). Varied and unusual experimental art media to be used in conjunction with individual teaching techniques. Students will have the opportunity to solve procedural problems and adapt art media to teaching experiences. Some outside reading will be required, as well as written paper. **PREREQ:** Graduate standing. Summers only by request.

AR 522 TEACHING THROUGH EXPERIMENTAL ART MEDIA (0-6-3)(SU). Varied and unusual experimental art media to be used in conjunction with individual teaching techniques. Students will have the opportunity to solve procedural problems and adapt art media to the teaching experiences. Some outside reading will be required, as well as a written paper. **PREREQ:** Graduate standing. Summers only by request. Alternate years.

AR 551 SPECIAL METHODS: CURRICULUM DEVELOPMENT IN ART EDUCATION (3-6-3)(S). Designed for the secondary school art teacher, this course will be geared to creative curriculum planning. It will be held in a workshop seminar format to facilitate student interaction and the opportunity to experiment and develop new ideas. **PREREQ:** Graduate status and PERM/INST.

AR 580-589 SERIES SELECTED TOPICS (3-0-3). An opportunity for the student to work independently with a particular teacher in a specific area or media. A total of nine credits allowable which can be divided into several areas or concentrated, distribution determined by the graduate student and committee.

AR 580 SELECTED TOPICS—DRAWING.

AR 581 SELECTED TOPICS—PAINTING.

AR 582 SELECTED TOPICS—CRAFTS.

AR 583 SELECTED TOPICS—SCULPTURE.

AR 584 SELECTED TOPICS—PHOTOGRAPHY.

AR 585 SELECTED TOPICS—CERAMICS.

AR 586 SELECTED TOPICS—PRINTMAKING.

AR 587 SELECTED TOPICS—DESIGNING.

AR 588 SELECTED TOPICS—ILLUSTRATION.

AR 589 SELECTED TOPICS—ART HISTORY.

AR 591 PROJECT (6 credits). See below.

1. A scholarly paper embodying results of original research which are used to substantiate a specific view.
2. Art show with a full faculty review.
3. A submitted portfolio of work with a full faculty review.

**PREREQ:** Graduate status.

AR 593 THESIS (N-4-4). The thesis, or culminating project, may be defined, but is not limited to a combination of any two of the following:

1. A scholarly paper embodying results of original research which are used to substantiate a specific view.
2. Three written reports directed toward the student's particular area of study.
3. A curricular proposal in written form which could be considered for implementation in the schools.

**PREREQ:** Graduate status.

AR 598 SEMINAR IN ART (3-0-3)(S). (Previously approved for Elementary Master's Degree.) Upon selection of an approved topic, the student will research it thoroughly, present an annotated bibliography, and present an oral report of the report of the topic, utilizing visual material in his presentation. The student will then present a research paper concerning his topic. **PREREQ:** Graduate standing.

AR 599 INDEPENDENT STUDY (1-0-1). (Previously approved for Elementary Master's Degree.) In consultation with a faculty member, the student may engage in an independent study project. The project will be developed as the project progresses. **PREREQ:** Graduate standing. Permission of the instructor.

AR 599 INDEPENDENT STUDY (2-0-2). (Previously approved for Elementary Master's Degree.) In consultation with a faculty member, the student may engage in an independent study project. The project will be developed as the project progresses. **PREREQ:** Graduate standing. Permission of the instructor.

AR 681 SELECTED TOPICS—THEORY OF CURRICULUM AND INSTRUCTION.

AR 682 SELECTED TOPICS—PERSPECTIVES IN EDUCATION.

AR 683 SELECTED TOPICS—SOCIOLOGY OF EDUCATION.

AR 684 SELECTED TOPICS—PSYCHOLOGY OF EDUCATION.

AR 685 SELECTED TOPICS—EDUCATIONAL PSYCHOLOGY.

AR 686 SELECTED TOPICS—SOCIOLOGY OF EDUCATION.

AR 687 SELECTED TOPICS—PHILOSOPHY OF EDUCATION.

AR 688 SELECTED TOPICS—HISTORY OF EDUCATION.

AR 689 SELECTED TOPICS—CURRICULUM DEVELOPMENT.

AR 690 SELECTED TOPICS—RESEARCH IN EDUCATION.

AR 691 SELECTED TOPICS—EDUCATIONAL EFFECTIVENESS.

AR 692 SELECTED TOPICS—EDUCATIONAL ADMINISTRATION.

AR 693 SELECTED TOPICS—EDUCATIONAL LEADERSHIP.

AR 694 SELECTED TOPICS—EDUCATIONAL MANAGEMENT.

AR 695 SELECTED TOPICS—EDUCATIONAL POLICY.

AR 696 SELECTED TOPICS—EDUCATIONAL ORGANIZATION.

AR 697 SELECTED TOPICS—EDUCATIONAL ECONOMICS.

AR 698 SELECTED TOPICS—EDUCATIONAL LAW.

AR 699 SELECTED TOPICS—EDUCATIONAL ETHICS.

**Master of Science in Education—Earth Science Emphasis**

The curriculum for the Master of Science in Education, Earth Science emphasis, stresses current developments in the earth science disciplines. In addition to subject matter knowledge emphasis is placed on the varied methods that can be used for teaching earth science. Because of the varied backgrounds of candidates, the course offerings are designed to allow flexibility in planning individual programs. A preliminary examination, oral or written, will be administered to each candidate.

Required courses include the Graduate Core, and a thesis, project, or additional courses as determined by the committee. All other courses to be taken in the degree program are planned by the student and the graduate committee. A final comprehensive oral and/or written examination over course work and the thesis or project is required.
Graduate College

presented with emphasis on the development of modern scientific thought. Historical illustrations of the nature of scientific research in the evolution of science are presented. This course may be taken for either HY or GS credit, but not for both.

Master of Science in Education—Mathematics Emphasis

1. The Master of Science in Education, Mathematics emphasis may be obtained through any of the following three options.
   a. The 30-hour “examination option”
      Graduate Core ........................................ 6
      Mathematics Sequence and Seminar ................. 9
      One mathematics course exclusive of M 503, 504, or 561 ... 3
      Mathematics electives ................................. 6
      Free electives ......................................... 6
      A written examination over mathematics coursework
      TOTAL 30
      An oral examination over all coursework included in the student's program
   b. The 33-hour “project option”
      Graduate Core ........................................ 6
      Mathematics Sequence, math Seminar and M 591 .... 12
      Mathematics electives ................................. 6
      Free Electives ........................................ 9
      A written examination over mathematics coursework
      TOTAL 33
   c. The 33-hour “thesis option” is the same as the “project option” except that M 591 is replaced with M 593

2. Mathematics Requirements
   a. Required Courses
      M 501, 502 Real Analysis I, II or M 541 ......••••••••••
      M 541-542 Modern Algebra I & II .................... 6
      M 598 Seminar in Mathematics ..................... 3
   b. Elective courses—Additional courses planned by the student and his/her graduate committee to meet program requirements.

3. Additional Information
   a. Credit in Workshop (594 or 599) is limited to a total of 3 credits to be applied to partial fulfillment of the requirements for the emphasis in Mathematics.
   b. Some students may be required to remove deficiencies before admission to candidacy. Students with strong undergraduate mathematics may apply to challenge, waive, or replace parts of the emphasis requirements.
   c. Students considering this program should consult with the Chairman of the Mathematics Department. Enrollment in graduate courses has been such that completion dates for this program cannot be guaranteed.

Course Offerings

See page 20 for definition of course numbering system


M 503 THE TEACHING OF ALGEBRA (3-0-3). Contemporary approaches to teaching secondary school algebra; treatment of selected topics in modern algebra; methods and materials; research relevant to the teaching of algebra. PREREQ: M 302

M 504 THE TEACHING OF GEOMETRY (3-0-3). Contemporary approaches to teaching secondary school geometry; treatment of selected topics in geometry; methods and materials; research relevant to the teaching of geometry. PREREQ: M 311.

M 505 FOUNDATIONS OF MATHEMATICS (3-0-3). The axiomatic method and its role in modern mathematics. The role of the theories of sets and groups in the development of mathematics. Modern philosophies of mathematics. PREREQ: M 302 or PERM/INST.

M 511 GENERAL TOPOLOGY (3-0-3). Set separation axioms, topologies, connectedness, compactness, generalized convergence, continuity, product spaces. PREREQ: M 401 or M 501 or PERM/INST.

M 541-542 ABSTRACT ALGEBRA I, II (3-0-3). Mappings, the integers, groups, subgroups, morphisms, rings, integral domains, polynomial rings, fields, field extensions. PREREQ: M 302 or PERM/INST.

M 547 HISTORY OF MATHEMATICS (3-0-3). The course is designed for mathematics teachers in the secondary school. The course consists of two parts: the first part traces the development of algebra, geometry, analytic geometry and calculus to the 19th century; the second part gives a brief introduction to, and history of, some of the developments in mathematics during the last century. PREREQ: PERM/INST.

M 561 MATHEMATICS FOR OPERATIONS RESEARCH (4-0-4)(F/S). The mathematics techniques used to solve problems involving several variables. Linear systems, matrices, linear programming with the simplex method, differential and integral calculus with emphasis on applications in management decision situations. PREREQ: PERM/INST.

M 564 MATHEMATICAL MODELING (3-0-3)(SU). Introduction to mathematical modeling through case studies. Deterministic and probabilistic models; optimization. Examples will be drawn from the physical, biological, and social sciences. A modeling project will be required. PREREQ: M 361 and CS 122 or PERM/INST.

M 571 MATHEMATICS CURRICULUM 7-12 (3-0-3). The history of the 7-12 mathematics curriculum; content, special problems, and trends in mathematics programs; organization of the curriculum. Study of reports and recommendations; curriculum development projects. PREREQ: At least one year's experience teaching in secondary school mathematics.

M 591 PROJECT (May be taken for 3 to 6 credits). A project may include, but is not limited to, a library research paper, educational research or written curriculum with teaching materials. PREREQ: The student must be admitted to candidacy.

M 593 THESIS (May be taken for 3 to 6 credits). Original mathematical research or a new interpretation or novel exposition of existing mathematics. Course is arranged with supervising faculty member. PREREQ: Admission to candidacy.

M 598 SEMINAR IN MATHEMATICS (3-0-3). The content will vary within a format of student presentation and discussion of related advanced mathematical topics selected from texts or mathematical journals. This will not be a seminar in mathematics education.

Graduate Credits In Chemistry

There are graduate level courses available that may be offered on special request by the department of Chemistry. Descriptions of these courses follow. In addition, there are some undergraduate chemistry courses for which graduate credit may be earned. These are listed below, but complete course descriptions are found with the Department of Chemistry listing.

C CHEMISTRY

See page 20 for definition of course numbering system

Undergraduate

See appropriate department listing for detailed course descriptions of these undergraduate courses which may be taken for graduate credit.

C 401G-402G ADVANCED INORGANIC CHEMISTRY (3-0-3)(F).

C 411G INSTRUMENTAL ANALYSIS (2-4-0)(S).

C 422G ADVANCED TOPICS IN CHEMISTRY (3-0-3).

C 431G INTRODUCTION TO BIOCHEMISTRY (3-0-3)(F).

C 432G BIOCHEMISTRY LABORATORY (0-3-1)(S).

C 433G BIOCHEMISTRY (3-0-3)(S).

C 440G SPECTROMETRIC IDENTIFICATION (2-3-3)(S).

C 443G ADVANCED CHEMICAL PREPARATION LABORATORY (1-3-2)(S).

Graduate

C 501 HISTORY OF CHEMISTRY (3-0-3). The study of the development of chemistry from its early stages through alchemy. Emphasis will be placed on the development of chemical concepts, the important contributors to these concepts and the interrelationships between chemistry and the general course of history. PREREQ: Two years of college chemistry and one year of history or PERM/INST. Offered on demand.

C 503 SPECTROSCOPY (3-0-3). Concepts and practical usage of ultraviolet, infrared, nuclear magnetic, mass spectroscopy. Emphasis will be placed on use of instruments and interpretation of spectra. Prior knowledge of spectroscopy not required. PREREQ: Eight hours of general chemistry and six hours of organic chemistry. Offered on demand.
C 509 CHEMISTRY OF LIFE PROCESSES (3-0-3). The course introduces the student to basic concepts of biochemistry associated with a coverage of current topics ranging from allied health field areas to environmental chemistry. Classroom demonstration material will be correlated with lecture material. PREREQ: One year of general chemistry and organic chemistry. Offered on demand.

C 511 ADVANCED ANALYTICAL CHEMISTRY (3-0-3). Stoichiometry involved in separations and instrumental methods of analysis. The course will be flexible in nature to adapt to the varied background of the expected students. PREREQ: Quantitative Analytical Chemistry of PERM/INST. Offered on demand.

C 515 NUCLEAR AND RADIOCHEMISTRY (3-0-3). Atomic and nuclear structure, radioactivity, nuclear reactions, radioactive decay laws, interaction of radiation with matter, detection chemistry. Offered on demand.

Master of Arts in English
College of Arts and Sciences

Applicants who have at least twelve semester credit hours of upper division work in English with a grade point of 3.0 in those courses and who meet general Graduate College requirements will be accepted as regular graduate students. Students who do not have the required upper division English work may be admitted on a provisional basis and will be advised what steps to take to qualify for regular status.

Program Requirements

The course of study for the Master of Arts in English will consist of a minimum of 33 hours to be chosen by the students and their advisory committee from one of two alternatives.

1. An introductory seminar, twelve hours of graduate English courses and fifteen general graduate electives. At least nine hours of the English courses must be at the 500 level.

   E-500 ................................................................. 3
   Graduate English electives ....................................... 15
   Project or Thesis ................................................... 3
   *General Graduate electives (may include E 501) ........... 12
   TOTAL ................................................................. 33

2. An introductory seminar, fifteen hours of graduate English courses and fifteen general graduate electives and a comprehensive exam. At least nine hours of the English Courses must be at the 500 level.

   E 500 ................................................................. 3
   Graduate English electives (except E 501) .................... 15
   *General Graduate Electives (may include E 501) .......... 15
   Comprehensive Exam (Not credit related) .................... 0
   TOTAL ................................................................. 33

   *Students wishing an Advanced Secondary Certificate should take at least 9 credits in the College of Education.

   The introductory Seminar (E 500) is prerequisite to other 500 level seminars. However, with the consent of the student’s committee, the student may concurrently take another seminar. With the exception of E 501 and E 597, all seminars will be in specified areas of American and British literature and linguistics, although they may cover influences from other literatures. A maximum of 6 hours in 400C English courses may be substituted for seminar work in the English core. E 501 may be taken as a general elective, but may not be counted toward a student’s English core.

   Since the content of courses E 510, 520, 530, 540, 550, 560, 570 and 597 may vary from term to term, a student may repeat any of these courses for credit but may not count more than 6 hours toward his English core.

Course Offerings

See page 20 for definition of course numbering system

E ENGLISH
Undergraduate

See appropriate department listing for detailed course descriptions of these undergraduate courses which may be taken for graduate credit.

E 412G WOMEN WRITERS (3-0-3)(F/S).
E 487G MODERN BRITISH AND AMERICAN POETRY (3-0-3)(F/S).
E 488G METHODS AND THEORIES OF LITERARY CRITICISM (3-0-3)(S).

Graduate

E 500 INTRODUCTORY SEMINAR (3-0-3)(F/S). An introduction to bibliography and orientation to sources of information. Students research a concept or problem in literature or writing under supervision. PREREQ: Admission to graduate program or PERM/CHAIR.

E 501 THE TEACHING OF WRITING (3-0-3)(S). Theories and methods of teaching writing for experienced teachers. Special emphasis on new discoveries about the learning process in writing courses and in the teacher's role in helping individual students. PREREQ: E 301, E 500, and teaching experience or PERM/CHAIR.

E 502 ADVANCED TECHNICAL AND PROFESSIONAL WRITING (3-0-3)(S). Provides advanced work in the researching, writing, editing, and designing of technical documents. Major projects related to each student's field of interest. Topics of study include editing technical documents, audience analysis, graphic design, and the rhetoric of technical writing. PREREQ: E 202 or PERM/INST.

E 505 LINGUISTICS (3-0-3)(F/S). Modern linguistic theories and their application to the literature and teaching English. An examination of how various grammatical models represent the complexities of language sound, sequence, and structure. Application of theory to language at work. PREREQ: E 500 and LI 305 or equivalent or PERM/CHAIR.

E 508 WRITING FOR THE MARKET (3-0-3)(F). A writing course which studies literary journals, trade journals, and little magazines, considers the slick and the popular magazine market, and looks at tradebook publication with the intention of preparing the student to complete manuscripts for publication. PREREQ: An advanced writing course or PERM/INST.

E 510 MAJOR AUTHOR (3-0-3)(F/S). A consideration of minor and major artistic creations of an author with attention devoted to major influences on the writer and his/her influences on others. Aspects of investigation to include the life of the author and its relation to his/her work, the society and culture of the times, his/her place and stature in the genres in which he/she worked, his/her use or disregard of tradition, as well as an investigation of contemporary criticism and critical evaluation since the writer's time. PREREQ: E 500 or PERM/CHAIR. (Repeatable for credit.)

E 525 CREATIVE WRITING WORKSHOP (3-0-3)(F/S). An advanced workshop in poetry and fiction. Students will study the form and theory of poetry and fiction from the perspective of practicing writers and will apply these principles to the analysis and criticism of one author's work. PREREQ: E 305, 306, or PERM/INST.

E 530 PERIOD (3-0-3)(F/S). A study of a selected chronological period of American or British literature with focus on major authors, genres, or topic. PREREQ: E 500 or PERM/CHAIR. (Repeatable for credit.)

E 540 MYTH IN LITERATURE (3-0-3)(F/S). An exploration of the use of myth in literature as a source of content and structure. The nature and working of myth and the way it enters conscious creation of art. Themes such as the quest, the initiation, the Adamic myth in American literature, and of myths in the works of major authors may be explored. PREREQ: E 500 or PERM/CHAIR. (Repeatable for credit.)

E 550 LITERATURE AND CULTURE (3-0-3)(F/S). The interaction between a body of literature and the social, economic, and political forces that characterize the culture in which it originates. The influence of culture on literary form and content. PREREQ: E 500 or PERM/CHAIR. (Repeatable for credit.)

E 560 FOLKLORE (3-0-3)(F/S). Materials selected from oral tradition and culture with attention to aspects of collecting, classifying, comparing, analyzing, and archiving. Theories of folklore composition, transmission, and function will be related to the occurrence of folklore. PREREQ: E 500 or PERM/CHAIR. (Repeatable for credit.)

E 570 LITERARY MOVEMENTS (3-0-3)(F/S). A focus on a significant literary movement, the works of its major and minor contributors, its theories and its practice, its relation to its time, its place in literary history, its influence on writers past and present. PREREQ: E 500 or PERM/CHAIR. (Repeatable for credit.)

E 581 LITERATURE FOR USE IN JUNIOR AND SENIOR HIGH SCHOOLS (3-0-3)(F). A literary content course for prospective teachers of secondary school English. Primary emphasis on critical reading of literature for adolescent in secondary school. Secondary emphasis on methods of analysis appropriate to students. All genres as well as classic and popular authors. PREREQ: E 102, two literature courses or PERM/CHAIR.

E 593 THESIS (V-O-V). A scholarly paper containing the results of original research. PREREQ: Admission to candidacy and approval of the student’s graduate committee.

E 595 READING AND CONFERENCE (V-O-V). A project may include, but is not limited to, a library research paper or experimental research on some aspect of pedagogy or preparation of written curriculum with teaching materials. PREREQ: Admission to candidacy and approval of the student’s graduate committee.
Master of Music
College of Arts & Sciences

Master of Music—
Music Education Emphasis

1. The Master's in Music—Music Education emphasis is designed to meet the needs of music specialists. Admission will be granted to applicants who hold a Bachelor's degree from an accredited college or university, and who give promise of meeting the standards set by the Music Department.

2. All regular and provisional graduate students will be required to take diagnostic examinations during the first part of their program. The purpose of these examinations is to determine the student's strengths and weaknesses so that the student and her/his commit tee will be able to set up a program according to the student's needs. The examinations will be in the areas of music theory, music history, and performance. After taking the core courses in music education, the student will take a comprehensive examination in the area of music education. The results of these examinations will be interpreted by the Music Department faculty. The student's advisor will consult with the student about action towards remedying any deficiencies. Any undergraduate course used to make up the deficiencies will not count toward the Master's Degree. A student who has any deficiencies will be granted Provisional Status in the graduate program; when all deficiencies are removed he may then seek Regular Status. A description of the material covered on these examinations is available from the Music Department.

a. Required Core Classes
   - MU 503 Intro Research Materials Music Educ 3
   - MU 570 New Developments in Music Education 3

b. Required College of Education Core Classes
   - 6

Elective Courses (Select two from the following):
1. Law for the Clsrn Teacher TE 561 1
2. School Organ & Finance TE 562 1
3. Instruct Tech-Second School TE 564 1
4. Interpreting Educ Research TE 565 1
5. Learn Theory & Clsrn Instruct TE 566 1
6. Tech of Clsrn Mgmt TE 568 1
7. Testing & Grading TE 569 1
8. Instruct Techniques-Elem School TE 573 1

A minimum of 10 elective music credits must be taken in the areas of performance, conducting, theory, and analysis and/or history and literature. These courses include all MC 500 (private lessons) courses, ME 510, ME 515, ME 520, MU 501, MU 511, and MU 561. Additional courses will be planned by the student and his graduate committee.

c. Elective Courses 15

d. Culminating Project
   - MU 593 Thesis OR 6
   - MU 591 Project OR 3

In lieu of a culminating project 6 additional hours of course work would be required with a special written examination following the completion of the courses.

TOTAL 30-33

Course Offerings

See page 20 for definition of course numbering system

GRADUATE

MA MUSIC APPLIED — PERFORMANCE CLASSES, RECITALS

MA 544 LECTURE/RECITAL (0-V-3). A full lecture/recital elected as the culminating project for the Master of Music degree, Music Education or Performance/Pedagogy emphasis major. The lecture is to demonstrate scholarly study on a selected topic and the recital is to present supportive musical examples. PREREQ: PERM/INST/CHAIR. Graded Pass/Fail.

MA 546 GRADUATE SOLO PERFORMANCE RECITAL (0-V-3). A full recital to be presented as the culminating project for the Master of Music degree, Performance/Pedagogy emphasis. PREREQ: PERM/INST/CHAIR. Graded Pass/Fail.

MC MUSIC PRIVATE LESSONS PERFORMANCE STUDIES

Graduate

Students will be assigned on the basis of an audition. Performance, Technical Study, Musical Interpretation, Literature, and Teaching Technique will be stressed.

All 500 level MC courses are repeatable for credit to a maximum of 6 credits. See undergraduate Private Lesson Performance Studies course numbering system for explanation of course numbers.

MC 501 (0-5-1), 502 (0-5-2), 504 (0-1-4). Woodwind instruments private lessons.

MC 511 (0-5-1), 512 (0-5-2), 514 (0-1-4). Brass instruments private lessons.

MC 521 (0-5-1), 522 (0-5-2), 524 (0-1-4). Percussion instruments private lessons.

MC 531 (0-5-1), 532 (0-5-2), 534 (0-1-4). Voice private lessons.

MC 541 (0-5-1), 542 (0-5-2), 544 (0-1-4). Keyboard instruments private lessons.

MC 551 (0-5-1), 552 (0-5-2), 554 (0-1-4). Fretted string instruments private lessons.

MC 561 (0-5-1), 562 (0-5-2), 564 (0-1-4). Bowed string instruments private lessons.

ME MUSIC ENSEMBLE

Graduate

ME 510 CHORAL ENSEMBLE (0-2-1) (F/S). A general chorus open to all interested students. The format of the classes will be related to the size of the enrollment, i.e., choir, chamber ensemble or collegium musicum.

ME 515 OPERA THEATER (0-5-1). Advanced study/experience in singing-acting technique and movement through performing in productions from the opera and/or musical theater repertoire. May be repeated for up to 4 credits maximum. PREREQ: PERM/INST.

ME 520 INSTRUMENTAL ENSEMBLE (0-1-1) (F/S). A performing group or groups will be formed, depending on the size of enrollment, such as trios, quartets, band or orchestra. Opportunities to perform ensemble music of various kinds will be given. Emphasis will be placed on techniques of ensemble playing, intonation, phrasing, articulation and proper performance practice of ensemble literature.

MU MUSIC, GENERAL

Undergraduate

See appropriate department list for detailed course descriptions of these undergraduate courses which may be taken for graduate credit.

MU 410G ADVANCED FORMAND ANALYSIS (2-0-2).S

MU 423G SIXTEENTH CENTURY COUNTERPOINT (3-0-3).S

MU 424G SIXTEENTH COUNTERPOINT SINCE 1600 (3-0-3).S

GRADUATE

MU 501 HISTORY OF MUSIC IN THE UNITED STATES (3-0-3).S. Designed for either the non-specialist or specialist in music, this course will survey the role which music has played in the development of American culture. Among the topics covered will be early New England music, music of the Black groups, and other ethnic groups. Social and historical interrelationships with music will be examined and discussed.

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

MU 503 SEMINAR IN CHORAL MUSIC: PERFORMANCE PRACTICES AND STYLES (3-0-3)(S/F). An historical, generic survey of the repertoire in choral literature. Emphasis will be placed on facets of interpretation through a study of representative compositions from the standpoint of performance practice, analytic techniques, and the reading of primary sources of pertinent information.

MU 506 SEMINAR IN INSTRUMENTAL MUSIC: PERFORMANCE PRACTICES AND STYLES (3-0-3)(S/F). Analysis and study of works from the Baroque through the present era. Particular attention will be paid to performance practices of ornamentation, style, tempo, scoring, dynamics, etc. Band transcriptions also included.

MU 511 20TH CENTURY MUSICAL STUDIES (3-0-3)(S/F). A study of 20th century compositional techniques and performance practices through analysis, discussion of aesthetics, listening, performance, and creative writing. Contemporary techniques (and their notation), such as quartal harmonies, serialization, improvisation, electronic music, microtones, and multi-media, will be explored and their application to the secondary school music classroom will be discussed.

MU 512 ELECTRONIC MUSIC APPLICATIONS (3-0-3)(S/F). A historical overview of electronic music and music technology. Hands-on experience with digital and analog synthesizers, effects processors, sampling, tape decks, computers and related software, and MIDI. Emphasis will be placed on the application of fundamental techniques of electronic music to creative composition.

MU 551 SEMINAR IN MEDIEVAL THROUGH BAROQUE PERFORMANCE PRACTICES (3-0-3)(S/F). The study of music literature in Western Europe from the Middle Ages through the Baroque period through the historical survey of performance practices and their practical application.

MU 552 SEMINAR IN MODERN MUSIC: FORM AND STYLE (1750-1980)(3-0-3)(S/F). The study of a major art music in the Western World from 1750 through the present, with emphasis on selected masterworks, including score analysis, performance practice, textual background and historical context.

MU 557 MAJOR INSTRUMENT LITERATURE (3-0-3)(S/F). Advanced survey of the major instrument literature. The student will prepare a research paper on several typical or important works in the repertoire.

MU 561 ADVANCED CONDUCTING (3-0-3)(S/F). Designed for secondary music teachers, this course provides opportunity to discover and analyze technical conducting problems, both instrumental and choral, in music of the various historical eras, which forms a significant part of the secondary school repertoire.

MU 563 MAJOR INSTRUMENT PEDAGOGY I (3-0-3)(F). An advanced and in-depth investigation of pedagogical techniques, materials and principles used in the private teaching studio. Readings in the philosophy of teaching will be included.

MU 564 MAJOR INSTRUMENT PEDAGOGY II (3-0-3)(S). Development of lesson plans and supervised studio teaching in both private and group settings. Recommended preparation: MU 563.

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

MU 572 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING MUSIC IN THE ELEMENTARY SCHOOL (3-0-3)(S/F). Designed for the general classroom teacher or music specialist, the course deals with old and new approaches to teaching music in the classroom, teaching materials, current research on problem singers, creative musical activities, and the development of music reading skills. PREREQ: M 371 or PER/WMINST.

MU 573 LISTENING AND SINGING EXPERIENCES FOR THE ELEMENTARY SCHOOL (3-0-3)(S/F). Designed for the general classroom teacher or music specialist, the course deals with the study of singing and listening materials relevant to classroom music, K-6. Sequential curriculum plans will be developed for singing and listening experiences. PREREQ: M 371 or PER/WMINST.

MU 573 ADVANCED METHODS AND TECHNIQUES FOR THE INSTRUMENTAL INSTRUCTOR (3-0-3)(S/F). A study of causes and solutions for problems occurring in the instrumental rehearsal. Areas to be covered include selection of methods and techniques, organization and repertoire planning.

MU 574 ADVANCED METHODS AND TECHNIQUES FOR THE CHORAL INSTRUCTOR (3-0-3)(S/F). A study of causes and solutions for problems occurring in the choral rehearsal. Areas to be covered include vocal methods and techniques, organization and repertoire planning.

MU 575 ADMINISTRATION OF SCHOOL MUSIC (3-0-3)(S/F). A seminar in problems of music supervision and administration covering areas such as budget, scheduling, curriculum, personnel and philosophy.

MU 591 PROJECT (0-V-3). Details for the culminating project can be found in requirements for Master's degree in secondary education, music emphasis.

MU 593 THESIS (0-V-6). A scholarly paper embodying results of original research which are used to substantiate a specific view.

---

Master of Science in Exercise and Sport Studies

College of Education

Objectives

The objective of this program is to provide a scholarly approach to the academic discipline of exercise and sport studies. Along with the required core, students will elect an area of focus from the scientific or behavioral dimensions and culminate their study with some form of scholarly endeavor (project or thesis).

Degree Requirements

Master of Science in Exercise and Sport Studies

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functional Anatomy PE 500</td>
<td>3</td>
</tr>
<tr>
<td>Physiology of Activity PE 510</td>
<td>3</td>
</tr>
<tr>
<td>Biomechanics PE 520</td>
<td>3</td>
</tr>
<tr>
<td>Psychology of Exercise &amp; Sport PE 530</td>
<td>3</td>
</tr>
<tr>
<td>Applied Principles of Conditioning PE 540</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td>15</td>
</tr>
</tbody>
</table>

**RESEARCH TOOLS**

<table>
<thead>
<tr>
<th>Advanced Statistical Methods</th>
<th>P 405g</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Statistics DS 513</td>
<td></td>
</tr>
<tr>
<td>Fund of Educational Research TE 551</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>6</td>
</tr>
</tbody>
</table>

**ELECTIVES**

| Exercise Physiology Lab PE 515 | 3 |
| Mechanical Analyses of Motor Act PE 525 | 3 |
| Sociology of Exercise & Sport PE 535 | 3 |
| Exercise Testing & Prescription PE 545 | 3 |
| Philosophy of Exercise & Sport PE 550 | 3 |
| Motor Learning PE 560 | 3 |
| Health Promotion PE 570 | 3 |
| Computers in Exercise & Sport PE 575 | 3 |
| Practicum PE 590 | 3 |
| Directed Research PE 596 | 3 |
| TOTAL | 6-9 |

**THESIS/PROJECT OPTIONS**

| Research & Thesis PE 593 | 6 |
| TOTAL | 6 |
| NON-THESIS OPTION | 3 |
| Project PE 591 | 3 |
| TOTAL | 3 |

A revolving three year draft of graduate offerings is available upon request from the Department of HPER, G 209.

Course Offerings

See page 20 for definition of course numbering system

**Undergraduate**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 401G PSYCHO/SOCIAL ASPECTS OF ACTIVITY (3-0-3)(S/F)</td>
<td></td>
</tr>
<tr>
<td>PE 402G ADVANCED ATHLETIC TRAINING (3-0-3)(S/F)</td>
<td></td>
</tr>
</tbody>
</table>

**Graduate**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 500 FUNCTIONAL ANATOMY (3-0-3)</td>
<td>A study of gross human anatomy from the descriptive approach with emphasis on the skeletal, muscular, nervous and circulatory systems. Includes cadaver dissection. In addition, indepth study of joint structures, function, gross motor movements, and skill will be included. Video analysis will be utilized.</td>
</tr>
<tr>
<td>PE 510 PHYSIOLOGY OF ACTIVITY (3-0-3)</td>
<td>A study of the various factors affecting human performance and subsequent adaptations of the body to single and repeated bouts of exercise.</td>
</tr>
<tr>
<td>PE 515 EXERCISE PHYSIOLOGY LAB (2-2-3)</td>
<td>Practical application of the principles that govern response and adaptation of the human body to exercise, utilizing laboratory equipment to collect data and analyze results.</td>
</tr>
<tr>
<td>PE 520 BIOMECHANICS (3-0-3)</td>
<td>A study of the internal and external forces acting on the human body and the effects produced by these forces. Analysis of movement will focus on qualitative techniques.</td>
</tr>
</tbody>
</table>
Graduate College

PE 525 MECHANICAL ANALYSIS OF MOTOR ACTIVITIES (3-0-3). An introduction to the analysis techniques used to study the mechanics of human motion. Topics will include cinematography, videography, force transducers, electromyography, and computer analysis techniques.

PE 530 PSYCHOLOGY OF EXERCISE AND SPORT (3-0-3). A study of psychological factors as they relate to exercise, sport and performance. Content includes personality traits, motivation, anxiety/ arousal, and intervention/coping strategies.

PE 533 SOCIOLOGY OF EXERCISE AND SPORT (3-0-3). A study of the relationships among sport and other facets of society, including social organization, group behavior and social interaction patterns.


PE 545 EXERCISE TESTING AND PRESCRIPTION (2-2-3). A study of the current methods and procedures used in coronary heart disease risk detection and reduction, including the recommended guidelines by the American College of Sports Medicine for exercise testing and prescription.

PE 550 PHILOSOPHY OF EXERCISE AND SPORT (3-0-3). A study of the philosophical foundations underlying exercise and sport. Topics include values development, design and evaluation of individual and program philosophy and goal structuring.

PE 560 MOTOR LEARNING (3-0-3). A study of the relevant empirical evidence and research in the field of motor learning and performance, including the learning process, feedback, timing, information processing, transfer, perception, motivation and practice conditions.

PE 570 HEALTH PROMOTION (3-0-3). An introduction to health promotion in the commercial/industrial sector, including planning, development, and implementation of programs aimed at the achievement of total well-being.

PE 575 COMPUTERS IN EXERCISE AND SPORT (3-0-3). An introduction to computer applications in the exercise and sport sciences, including methods for collecting data. Processing of data will include both minicomputer software and the Statistical Analysis System (SAS) package.

PE 590 PRACTICUM (0-9-3). Available on a selective, limited basis. Culminating experience designed to provide students with an opportunity to apply skills learned in the classroom. PREREQ.: PERM/INST.

PE 591 PROJECT (3 credits). Students select a project related to Exercise and Sport Studies and pursue it to a logical conclusion. PREREQ.: PERM/INST.

PE 593 RESEARCH AND THESIS (6 credits). A scholarly paper containing the results of original research. PREREQ.: Admission to candidacy and approval of the student's graduate committee.

PE 596 DIRECTED RESEARCH (variable credits). Opportunity for the student to pursue a topic of interest on an individual basis.

Master of Science, Geology
College of Arts and Sciences

A Cooperative Graduate Studies Program

Boise State University and Idaho State University have a cooperative agreement which allows students to obtain a Master of Science degree and complete all but 12 credit hours while in residence at BSU. Students may initiate and complete a thesis in residence at BSU; the thesis committee will consist of faculty members from both universities. A minimum of 12 credit hours (one semester) are to be completed in residence at ISU, and the degree will be awarded by Idaho State University. The student may include one or more fields in their studies, such as biostratigraphy, economic geology, environmental geology, geomorphology, exploration geophysics, hydrogeology, mineral exploration, ore deposits, paleontology, petrography and petrology of igneous rocks, stratigraphy, structural geology, shallow subsurface seismic, and volcanic stratigraphy. University of Idaho geology courses taken at BSU may also be counted toward the cooperative MS degree.

Admission Requirements: Application for admission may be made by graduates of accredited institutions holding a baccalaureate degree in Geology or related geoscience. Regular admission will be awarded based on grade point, GRE scores and letters of recommendation to applicants who have earned a minimum grade point average of 2.75 during the last two years of academic work. Continued enrollment in the program requires a minimum 3.0 grade point average and satisfactory progress toward the degree.

Additional information may be obtained from the Department of Geology and Geophysics, Boise State University, 1910 University Drive, Boise, ID 83725 or from the Chairman, Department of Geology, Idaho State University.

Course Offerings

See page 20 for definition of course numbering system

The following is a partial list of courses taught at Boise State University which may be used to fulfill the Masters credit requirements. Course descriptions for undergraduate courses are included in the listing for the Department of Geology and Geophysics earlier in this Catalog. Course descriptions for graduate courses are listed under the Master of Science in Education, Earth Science Emphasis, program description.

GO 403G Engineering Geology
GO 410G Exploration Well Logging
GO 412G Hydrology
GO 431G Petroleum Geology
GO 460G Volcanology
GO 471G Regional Field Geology
GO 511 Environmental Geology
GO 514 Advanced Structural Geology
GO 523 Advanced Igneous Petrology
GO 531 Regional Geology of North America
GO 541 Methods and Techniques of Gathering, Measuring and Testing Geologic Data
GO 551 Current Topics in Geology
GO 571 Geochemistry
GO 593 Thesis
GO 596 Directed Research
GO 597 Special Topics
GO 598 Graduate Seminar

Idaho State University Courses:
Geol 648 Research Problems
Geol 650 Thesis

University of Idaho Courses:
Hydro 502 Directed Study
Hydro 569 Contaminant Hydrology
Hydro 577 Computer Applications in Geohydrology

Master of Science, Geophysics
College of Arts and Sciences

Boise State University offers a Master of Science degree in geophysics through the Department of Geology and Geophysics. The objective of the program is to prepare students for professional employment and for geoscience study at the Ph.D. level. The degree requires 30 total credits distributed as follows: 12 graduate geophysics course credits; 12 credits in approved science, engineering, or business courses; and 6 thesis research credits leading to an approved thesis. Current research emphases at BSU are in high-resolution geophysical methods, petroleum geophysics, geothermal systems, earthquake seismology and seismic hazards, computer-aided interactive interpretation, and studies of crustal deformation.

The BSU Master of Science program in geophysics interacts cooperatively with the University of Idaho (UoI) Master of Science program in geophysics through the joint listing of graduate geophysics courses, the application of BSU graduate geophysics courses for UoI credit, and the application of UoI graduate geophysics courses for BSU credit. Cooperation is extended to Idaho State University (ISU) in that up to 12 credits earned in approved courses at ISU can be applied to a Master of Science in geophysics at BSU or UoI. In addition, faculty at BSU, UoI, and ISU may form joint supervisory committees when expertise from outside of the student's resident institution is judged to be beneficial. These cooperative efforts by BSU, UoI, and ISU add flexibility and geographic accessibility to graduate education in geophysics within Idaho.

Admission Criteria: Applicants should have a BS or equivalent degree in one of the following fields: geophysics, geology, hydrology, physics, chemistry, mathematics, engineering, or business. Evaluation for admission requires three personal references, transcripts from all colleges and universities attended, and scores on the GRE General Test. Students whose native language in not English must submit a TOEFL
The final written thesis must be approved by the supervisory committee to each new student until a supervisory committee can be assigned. Preference is given to those applicants whose records indicate a high probability for successful completion of publishable graduate research. Application materials should be requested from Graduate Admissions, Boise State University, 1910 University Drive, Boise, ID 83725, telephone (208) 385-3903.

Supervisory Committee: Each admitted student will be assigned a supervisory committee whose purpose is to approve the program of courses and the final thesis. The supervisory committee consists of at least three members: a chairman from BSU who will suggest an appropriate program of courses and guide the thesis research, and at least two members chosen in any combination from BSU, Uol, ISU, or other institution (selection based on a direct interest in the student’s research). The Coordinator of the Geophysics Graduate Program will serve as advisor to each new student until a supervisory committee can be assigned.

Credit Requirements: The BSU Master of Science in geophysics requires 30 semester credits distributed as follows:

A. 12 credits in BSU GP 500-level geophysics courses (see selection below).
B. 6 credits for research leading to a written thesis (BSU GP 593).
C. 12 additional credits in courses approved by the supervisory committee (nominally selected from geophysics, geology, hydrology, engineering, physics, mathematics, chemistry, or economics/business).

A maximum of 9 transfer credits from institutions other than Uol and ISU may be applied to meet requirement C; all 12 credits of requirement A may be satisfied with Uol 500-level geophysics courses. Certain courses are normally ineligible for requirements A and C including courses applied to a previously obtained degree, courses used to meet admission requirements, and courses required to remedy background deficiencies. In all cases the courses applied to meet the credit requirements must be approved by the chairman of the student’s supervisory committee, and the majority of the 30-credit total requirement (i.e., at least 16 credits) must be earned in residence at BSU.

Thesis Requirements: A thesis representing research of sufficient quality to warrant publication in a peer-reviewed journal is required of all candidates for the Master of Science in geophysics. Actual publication is not required, but is held out as a goal for all graduate students. The final written thesis must be approved by the supervisory committee, and the research results must be presented at a formal public defense.

Graduate College Requirements: The general requirements of the BSU Graduate College also govern the Master of Science in geophysics degree program.

BSU Course Offerings

See page 20 for definition of course numbering system

GP GEOPHYSICS
See appropriate department listing for detailed description of undergraduate courses (400G level) which may be taken for graduate credit.

GP 410G EXPLORATION WELL LOGGING (3-3-3S).
GP 420G GEOPHYSICAL APPLICATIONS OF DIGITAL SIGNAL PROCESSING (3-3-3S).
GP 443G MATHEMATICAL MODELING IN GEOPHYSICS (3-3-3S).

Graduate

GP 510 INTEGRATED GEOLGY AND GEOPHYSICS IN PETROLEUM, MINERAL AND GROUNDWATER EXPLORATION AND DEVELOPMENT (4-0-4P). Role of integrated geological and geophysical methods in the design and implementation of natural resource exploration and development projects. Emphasis depends
Graduate College

Admission will be granted to applicants who hold a Bachelor's degree in History from an accredited institution or who have a strong history background in their degree. Those students without a strong history background may be required to remove deficiencies before admission. Applicants for regular status in the program must have maintained a GPA of at least 3.00 overall and a 3.20 in history for the last two years of undergraduate study. Students not meeting minimum requirements for regular status are encouraged to apply for provisional status.

Students with strong undergraduate history may apply to challenge, waive or replace parts of the emphasis requirements. Students selecting a double emphasis will develop their program in consultation with their committee. Applicants must also be aware that some areas require foreign language skills or some other research tool.

Program Requirements

The Master of Arts in History will consist of a minimum of thirty-three credit hours planned by the student and his/her advisory committee from the following alternatives.

- 33 hours with thesis

  History .......................................................... 18
  Free Electives .................................................. 9
  Thesis (defended orally) HY 593 .............................. 6

- 33 hours with project

  History .......................................................... 21
  Free Electives .................................................. 9
  Project HY 591 .................................................. 3
  Written or oral examination covering aspects of project and course work taken in the History Department toward the degree.

- 36 hours

  History .......................................................... 3
  Free electives .................................................... 12
  Written examination covering course work taken in the History Department toward the degree.

Required Courses

HY 500 Historians and Historical Interpretation ................ 3
HY 580, 581 or 582 Seminar ..................................... 3
HY 510-511 History of Western Thought

OR

HY 520 Sources of American Values ............................ 3

A maximum of six hours in 500, 580 or 400G, G History courses may be substituted for seminar work in the History offering. Elective courses are additional courses from History or allied fields as planned by the student and his/her graduate committee to meet program requirements.

Course Offerings

See page 20 for definition of course numbering system

HY HISTORY

Undergraduate

See appropriate department listing for detailed course descriptions of these undergraduate courses which may be taken for graduate credit.

HY 334G UNITED STATES SOCIAL AND CULTURAL HISTORY (3-0-3)(F/S).
HY 423G EUROPEAN DIPLOMATIC HISTORY 1871-PRESENT (3-0-3)(F/S).

Graduate

HY 500 HISTORIANS AND HISTORICAL INTERPRETATION (3-0-3). A study of major historians and schools of historical interpretation from ancient Greece to the twentieth century. Discussion concentrates in written history and the problems of interpretation. Oral and written participation and a major paper are required. PREREQ: admission to graduate program or PERM/CHAIR.

HY 501 HISTORY OF SCIENCE (3-0-3). A survey of man's efforts to understand the natural world from the ancient world to the present including pre-scientific assumptions, the evolution of science since the 16th century, and the development of modern scientific thought. May be taken for either HY or GS credit, but not both.

HY 502 TEACHING HISTORY IN SECONDARY SCHOOLS (3-0-3). An inquiry into the philosophy of history, a consideration of the relationship on the discipline to other social studies and other fields of knowledge, and survey of various techniques available to teachers of history at the secondary school level. PREREQ: Admission to the graduate program or PERM/CHAIR.

HY 510 HISTORY OF WESTERN THOUGHT (3-0-3). History of Western thought beginning with the Ancient Near East to the Renaissance and Reformation. A study of intellectual and cultural trends reflected in Western religious and philosophical literature. PREREQ: Admission to the graduate program or PERM/CHAIR.

HY 511 HISTORY OF WESTERN THOUGHT (3-0-3). History of Western thought from 1500 to the present. A study of intellectual and cultural trends reflected in Western religious and philosophical literature. PREREQ: Admission to the graduate program or PERM/CHAIR.

HY 520 SOURCES OF AMERICAN VALUES (3-0-3). The origins of American thought and culture, the Puritan mind, enlightenment ideas, the intellectual climate of the new nation, and an exploration of American values on the eve of the Civil War. May be taken for either HY or GS credit, but not both.

HY 580 GRADUATE SEMINAR IN U.S. HISTORY (3-0-3). A study of the principal themes or problems with well-defined periods of particular fields of U.S. History. Emphasis will be placed in reading, discussion, writing and research. Reports and discussion on various aspects of the controlling subject will be performed by the students with the assistance of the instructor. PREREQ: Admission to the graduate program or PERM/CHAIR.

HY 581 GRADUATE SEMINAR IN EUROPEAN HISTORY (3-0-3). Critical analysis of source materials and historical literature on a topic of restricted scope in European history. PREREQ: Admission to graduate program or PERM/CHAIR.

HY 582 SEMINAR IN THIRD WORLD HISTORY

HY 590 INTERNSHIP

HY 591 PROJECT

HY 593 THESIS

HY 595 READING & CONFERENCE

HY 596 DIRECTED RESEARCH

HY 597 SPECIAL TOPICS

HY 598 HISTORY SEMINAR

Master of Arts or Science in Interdisciplinary Studies

College of Arts and Sciences

General Information

Boise State University offers a Master of Arts/Master of Science degree program in Interdisciplinary Studies. In consultation with faculty, students may combine courses from more than one school or college or more than one department to create an individualized pattern of educational experience. The program is designed for mature students who wish to continue education at the graduate level but do not seek specialized training concentrated in a major area. This program is not a substitute for the traditional master's degree; rather, it is intended for students with broader interests in several fields or those whose career goals do not match fully with a single identifiable academic unit or department. Emphasis is placed on continued intellectual and cultural development in a constantly changing society where new career interests may extend over several traditional specializations.

The Interdisciplinary Studies Program is administered by the Graduate College, housed in the College of Arts and Sciences and directly supervised by the Director of Interdisciplinary Studies who is the Associate Dean of that College. A university-wide Interdisciplinary Studies Committee consisting of the Graduate Dean and one member from each academic School of College oversees the program. The Director of Interdisciplinary Studies serves as the chairperson of that committee. Each student in the program will also have a graduate committee composed of three faculty members from the disciplines making up the interdisciplinary program. The student's graduate committee will have the responsibility of helping the student select his or her particular course of study and will recommend to the Interdisciplinary Studies Committee that it be accepted as the student's formal Plan of Study. The Interdisciplinary Studies Committee shall be responsible for approving the members of the student's graduate committee and approving the student's plan of study.

Admission Requirements

1. File application for admission to the Graduate College in room MG 118, and request official transcripts from each institution attended previously to be sent directly to the Graduate Admissions Office.

2. The standard admission policy for applicants to the BSU Graduate College will be followed.

3. The applicant must submit an application for entrance into the Interdisciplinary Studies Degree Program to the Director of Interdisciplinary Studies in room SN 106.
4. Have Graduate Record Exam scores forwarded to the Graduate College.
5. The applicant must have an undergraduate cumulative GPA of 3.00.
6. The applicant must submit to the Director of Interdisciplinary Studies a two page written justification and rationale of why the courses in his or her Degree Plan are included in the Plan and how they will enable the applicant to accomplish identified intellectual, professional, or vocational goals.

Degree Requirements
Each program is developed individually according to the student’s interests and background but must be intellectually defensible and clearly interdisciplinary in nature. The following must be incorporated into the program:
1. Course work must be selected from a minimum of two academic areas.
2. As many as 11 credits of 300-400g or G courses may be applied toward the program.
3. Courses may not be challenged for credit: if comparable content can be demonstrated, other courses will be substituted. No more than 9 transfer credits will be accepted toward the program.
4. The degree will consist of a total of 33 credits, of which no more than 16 credits may be earned in the College of Business. Students may select from a thesis/project or from a written examination option. The thesis/project will carry 6 credits.
5. For those students selecting the examination option, the student’s graduate committee will draw up the examination questions. Following the written examination, the student will meet with the committee for an oral review of the results.
6. For students selecting the thesis/project option, upon completion of the work, the student will meet with his or her committee for a final review of the work.
7. The thesis/project option and the examination option must both require the student to draw critically upon the two or more disciplines studied and to integrate disciplinary insights.
8. All work offered toward the MA/MS Degree Program in Interdisciplinary Studies must be completed within a period of seven academic calendar years.

Procedures
Following an interview, the Director of Interdisciplinary Studies will assist the students in forming a graduate committee. The student will develop the program with the committee; the Interdisciplinary Studies Committee (composed of one representative from each academic College or School and the Graduate Dean) will judge whether the plan is in keeping with the policies established, and approve said plan for acceptance for the degree. Revisions to the plan of study must be approved by the student’s graduate committee chairperson, the Director of Interdisciplinary Studies, and the Graduate Dean.

Master of Public Affairs
School of Social Sciences and Public Affairs
In 1984 the State Board of Education designated Boise State University as the primary emphasis institution for public affairs education within the State of Idaho. The Master of Public Affairs program is an important component of BSU’s public affairs commitment.

The Master of Public Affairs (MPA) is a professional graduate degree designed to prepare students for positions of leadership in public service. Professionals in all levels of government, nonprofit organizations, and private sector governmental affairs departments take advantage of the general administrative and policy analysis skills offered by the MPA program. The curriculum also provides the theoretical and practical dimension of public management necessary to assist students seeking public service careers. Three areas of emphasis are offered leading toward the MPA degree: (1) general public administration; (2) human services administration; and (3) criminal justice administration.

Admission to the MPA Program
Persons who wish to enter the MPA Program must submit a graduate application to the Graduate Admissions Office. After submitting the graduate application, applicants receive a certificate of admission to enroll in courses at BSU. This certificate of admission is a PREREQUISITE to admission into the MPA program, but does not by itself guarantee admission into the MPA Program. (The student is advised to consult the Graduate College section of this catalog for more detail, including requirements for admission to the Graduate College.)
All applicants to the MPA Program must meet the following requirements prior to enrollment in MPA courses:
1. Meet with the Director of the Public Affairs Program to discuss the admission process, the applicant’s career interests, and reasons for entering the MPA Program.
2. Possession of a baccalaureate degree from an accredited institution.
3. Demonstration of satisfactory academic competency by attaining an overall GPA of 3.0 and a minimum combined 1000 on the Graduate Record Examination (GRE) verbal and quantitative sections.
4. Submittal of official transcripts from all previous academic institutions to the Graduate Admissions Office.
5. Submittal of three letters of reference, in which the applicant’s academic potential is evaluated, to the Public Affairs Program Director, Boise State University, 1910 University Drive, Boise, ID 83725.
6. Submittal of a brief statement explaining the applicant’s educational and career objectives and the MPA Data Form.
7. Completion of the following academic prerequisites (through academic coursework or approved equivalent experience):
   b. State and Local Government (3 semester credits).
   c. Introduction to Public Administration (3 semester credits).
   d. At least three semester credits in each of the following disciplines: Sociology, Economics, or Psychology.
   e. At least three semester credits in one of the following: accounting, data processing, computer skills, or statistics.
8. For those students selecting Human Services Administration as their area of emphasis, completion of at least 9 semester credit hours in sociology or social work.
9. For those students selecting Criminal Justice Administration as their area of emphasis, completion of at least 9 semester credit hours in Criminal Justice.

Applicants who do not meet these requirements may be recommended by the MPA Admissions Committee for admission with provisional graduate status. However, these students must remove all deficiencies before they will be recommended for regular graduate status.

MPA students must successfully complete at least 30 semester credit hours of approved MPA course work. Some students may also be required to complete the public service internship, which is explained below. Eighteen semester credit hours are in courses selected from the prescribed “core area.” The additional semester credits are in the student’s “area of emphasis.”

MPA students will select either the thesis or the directed research option. Students should make this selection in consultation with their MPA academic advisor. All MPA students must complete a final examination, regardless of the option chosen. Students in the thesis option must complete an oral examination emphasizing the thesis project but also possibly covering course work in general. Students in the directed research option are required to complete the written and oral comprehensive examinations based on their MPA Program course work.

Each MPA student must complete a program development form in consultation with the student’s MPA academic advisor. In completing this form, courses from the “core area” and “area of emphasis” are selected.

Transfer of Graduate Courses: Because of a cooperative agreement made with Idaho State University and the University of Idaho, the MPA credits earned at those institutions are accepted into the Boise State University program. Transfer of credit from all other institutions is limited to nine (9) semester credits.

Core Area Requirements: Each MPA student is required to complete 18 semester credit hours of approved MPA course work in the following “core areas.” Appropriate courses for each area are noted.
Graduate College

1. One course from each of the following areas:
   a. Administrative Theory, Organization and Behavior
   b. Public Management Techniques
   c. Public Policy and Policy Analysis

2. One course from any two of the following areas:
   a. Administrative Law
   b. Intergovernmental Relations
   c. Community and Regional Planning
   d. Comparative Public Administration
   e. Executive and the Administrative Process

3. A sixth course from any above core areas.

"Area of Emphasis" Requirements: Each MPA student is to complete a minimum of 12 additional semester credit hours. These credit hours are in the student's "area of emphasis." Areas of emphasis are concentrations or majors in the program. Presently, most MPA students select the General Public Administration area of emphasis. Students preferring the Criminal Justice or Human Services Administration emphasis may select that emphasis when there are staff resources available to offer courses in the emphasis.

Included in the 12 semester credit hours of the selected area of emphasis are the thesis project (6 semester credits) for the student in the thesis option and the directed research project (3 semester credits) for the student in the directed research option.

Regardless of which option an MPA student chooses, the student is to select the specific courses in the areas of emphasis in consultation with the student's academic advisor.

Public Service Internship: Those MPA students with less than one year of work experience in a public sector or other public affairs agency are to complete a "public service internship." The internship is served in a government office at the local, state, or national level or in appropriate public affairs organization, such as private, nonprofit agency. The credits received for the internship are in addition to the 30 semester credit hours from the core area and area of emphasis. The internship component comprises 6 semester credit hours.

The internship is meant to be a meaningful experience for both the MPA student and the organization in which the internship is served. Through the internship, students can further enhance their preparation for administrative work. At the same time, they are expected to make a valuable contribution to their assigned organizations. Therefore, the internship is usually served when the student is near completion of the MPA Program.

Course Selection

Designated Core Area

NOTE: Selection of courses is to be made in consultation with the student's academic advisor.

e. The Executive & the Administrative Process: The Role of the Executive in Policy Making PO 530.
f. Intergovernmental Relations: Intergovernmental Relations PA 521.
g. Community & Regional Planning: "Selected Topics" courses are occasionally offered.

h. Comparative Public Administration & Planning Systems: Comparative Public Administration PO 465G.

Optional "Areas of Emphasis"

NOTE: Some of the courses provided in these areas of emphasis are also provided in designated core areas as shown above. In such cases, a course may satisfy a general core area requirement or a specific area of emphasis requirement in the MPA program but not both.

a. General Public Administration: This area of emphasis is provided to accommodate those students desiring preparation in public administration as a "generalist," rather than a "specialist" in a particular area of specialization. At BSU the student may select the remaining 12 credit hours of coursework from the courses listed below: Comparative Public Administration PO 465G, Administrative Law PA 530, Intergovernmental Relations PA 521, Program Evaluation PA 510.

Any of the courses identified as "selected topics," which will be offered as staff availability permits, may be selected to satisfy the General Public Administration area of emphasis.

Arrangements may also be made in the following courses: Thesis PA 593, Reading and Conference PA 595, Directed Research PA 596, Conference/Workshop PA 599.


d. Other Areas of Emphasis: Environmental and Natural Resources Administration may be offered in the near future. "Selected Topics" courses are now presented in this area.

Course Offerings

See page 20 for definition of course numbering system

PA PUBLIC AFFAIRS COURSES

Undergraduate

See appropriate department listing for detailed course descriptions of these undergraduate courses which may be taken for graduate credit.

PO 465G COMPARATIVE PUBLIC ADMINISTRATION (3-0-3/F,S).

Graduate

PA 501 PUBLIC POLICY PROCESS (3-0-3/F,S). Process of policy-making both within an agency and within the total governmental process, emphasizing policy and program planning, policy implementation and the value system of administrators.

PA 502 ORGANIZATIONAL THEORY (3-0-3/F,S). Socio-political analysis of theories and concepts of complex social organizations, their application to public administration and the inter-relationship between political science and sociological organizational theory.

PA 503 TECHNIQUES OF ANALYSIS IN PUBLIC AFFAIRS (3-0-3/F,S). An introduction to quantitative and qualitative data analysis with an emphasis on using descriptive and inferential statistics as tools in both public policy analysis and public program analysis. The use of quantitative analysis to support management decision making is examined. Computers, especially microcomputers, will be used in the analysis of quantitative data.

PA 504 PUBLIC BUDGETING AND FINANCIAL ADMINISTRATION (3-0-3/F,S). Determination of fiscal policy, budgeting processes, and governmental forms of budgeting. Consideration of fiscal policy and processes in various program areas. Emphasis on the interface between technical and political processes.

PA 505 PUBLIC PERSONNEL ADMINISTRATION (3-0-3/F,S). An examination of the personnel/human resource management role as it has evolved in the public sector. The multiple responsibilities of personnel managers in the public sector will be examined, and the link between public policy and personnel management will be identified.

PA 510 PROGRAM EVALUATION (3-0-3/F,S). Application of social science research to administrative problems, including practical methods of gathering, analyzing, and interpreting data. Theory and basic techniques underlying quantitative analysis of public programs.

PA 511 QUANTITATIVE METHODS FOR PUBLIC DECISIONS (3-0-3/F,S). Methods for operations research and management science are used to analyze decisions as well as to plan and monitor program implementation. The usefulness of these methods in public sector and other public affairs organizations is considered.

PA 520 GOVERNMENT PLANNING (3-0-3/F,S). A study of the theories, objectives, techniques, and problems of government planning within cities, metropolitan areas, and regions, as well as at the national level of government in the United States. A discussion of the planning profession and the politics of planning.

PA 521 INTERGOVERNMENTAL RELATIONS (3-0-3/F,S). Intergovernment cooperation and conflict in the American federal system, including national-state-local, and interlocal relations. PREREQ: PO 101, 102, 303.

PA 522 POLICY ISSUES AND THE PUBLIC ADMINISTRATOR (3-0-3/F,S). Appropriate, relevant topics dealing with public policy and the roles of public administrators are discussed using concepts from organization and administrative theory and policy analysis.
A minimum of thirty (30) credits are required. Two (2) credits of graduate seminar (B 598) and six (6) credits of thesis (B 593) are required as part of the minimum 30 credits. The final copy of the thesis must be approved by the student's thesis committee and submitted to the Dean of the Graduate College.

Degree Requirements
Once accepted, the student and the student's major professor (thesis advisor) select two additional faculty to comprise the student's thesis committee. This committee reviews the student's program and thesis. The committee also determines if there are any specific academic deficiencies that the student must meet in addition to the M.S. degree requirements.

Course List (BSU)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biometry B 501</td>
<td>4</td>
</tr>
<tr>
<td>Population and Community Ecology B 502</td>
<td>3</td>
</tr>
<tr>
<td>Raptor Ecology B 506</td>
<td>3</td>
</tr>
<tr>
<td>Applied and Environmental Microbiology B 415G</td>
<td>4</td>
</tr>
</tbody>
</table>

General Information
The Master of Science degree program in Raptor Biology is designed for students, holding or expecting a bachelor degree in one of the disciplines of the biological sciences, to enhance their knowledge and understanding of raptor biology and ecology. The affiliation of the program with the World Center for Birds of Prey, affords students a unique opportunity to study the techniques of captive breeding and release of rare and endangered birds of prey. In addition, the Snake River Birds of Prey Natural Area, with the largest concentration of nesting raptors in North America, provides a unique circumstance to study raptor biology and ecology.

Admission Requirements
1. Submit a graduate application along with the $15.00 matriculation fee to the Graduate Admissions Office. Please submit the application PRIOR to submitting any additional items.
2. Have the Registrar(s) of ALL post-secondary institutions attended send official transcripts.
3. Submit three letters of recommendation.
4. Have Graduate Record Exam scores forwarded.

All of the above materials are to be sent directly to the Graduate Admissions Office, Boise State University, 1910 University Drive, Boise, ID 83725. In addition, the applicant should send a cover letter discussing the applicant's professional goals and his or her reasons for wishing to study raptor biology, directly to the Biology Graduate Studies Coordinator.

REGULAR STATUS may be granted to those students who submit the above materials if they have maintained a 2.75 GPA over the last two years of undergraduate study and average a 50 percentile in verbal, quantitative, and analytical portions of the GRE.

PROVISIONAL STATUS may be granted to those applicants who do not meet the requirements for regular status or who may required to complete additional requirements as determined by the Biology Department.

Students may apply for admission at any time; however, applications must be completed by March 1 (for Fall Semester admission) in order to be considered for assistantships. Other forms of financial aid, such as loans or the College Work Study Program, are available to graduate students. Prospective students should contact the Financial Aid Office and consult the BSU catalog. Enrollment in the program is limited.
Graduate College

Seminar B 598 (1 credit) ................................................. 2
Thesis B 593 ................................................................. 6
Directed Research B 596
(6 credits maximum in a semester) .................................. 1-9
Mycology BT 330 ............................................................. 4
Advanced Writing E 401 .................................................. 3
Mathematical Modeling M 564 ......................................... 3
Organizational Theory MG 540 ......................................... 3
Public Policy Formulation & Implementation PO 520 ....... 3
Entomology Z 305G .......................................................... 4
Ornithology Z 341G .......................................................... 3
General & Comparative Physiology Z 409G ..................... 4
Mammalogy Z 421G .......................................................... 3

In addition, approved upper division and graduate courses at Idaho State University and/or the University of Idaho may serve as part of the graduate program at the determination of the student's thesis committee.

Thesis/Project

By the end of the eighth week of the second semester in which the student is enrolled, an outline of the proposed research project must be submitted to the committee members. A budget must be included as part of the research proposal. During the second semester, the student must present a seminar on the proposed research which may consist of a literature review, current research, or progress on the research project.

Course Offerings

See page 20 for definition of course numbering system

Undergraduate

See appropriate department listing for detailed course descriptions of these undergraduate courses which may be taken for graduate credit.
Boise State University Faculty
Full-Time Official Faculty as of February, 1990

NOTE: The date in parentheses is the year of first appointment.

<table>
<thead>
<tr>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ackley Louise</td>
</tr>
<tr>
<td>Assistant Professor, English; A.M., University of Washington</td>
</tr>
<tr>
<td>Affleck Stephen B</td>
</tr>
<tr>
<td>Associate Professor, Engineering; Ph.D., Iowa State University</td>
</tr>
<tr>
<td>Allen John W</td>
</tr>
<tr>
<td>Professor, Physics; Ph.D., University of Washington</td>
</tr>
<tr>
<td>Allen Robert L</td>
</tr>
<tr>
<td>Program Head; Advanced Instructor, Industrial Mechanics/Automation; B.A., Boise State University</td>
</tr>
<tr>
<td>Anderson Holly L</td>
</tr>
<tr>
<td>Assistant Professor, Teacher Education; M.A., University of Utah</td>
</tr>
<tr>
<td>Anderson Jeffrey M</td>
</tr>
<tr>
<td>Director, Clinical Education, Respiratory Therapy; Instructor, Respiratory Therapy; B.S., University of Wisconsin, Madison</td>
</tr>
<tr>
<td>Anderson Robert</td>
</tr>
<tr>
<td>Professor, Mathematics; Ph.D., Michigan State University</td>
</tr>
<tr>
<td>Andersen Linda James</td>
</tr>
<tr>
<td>Department Chair and Professor, Psychology; Ph.D., University of California, Riverside</td>
</tr>
<tr>
<td>Arambarri Gary</td>
</tr>
<tr>
<td>Manager, Technical Division; Senior Instructor, Welding; Diploma, Boise State University</td>
</tr>
<tr>
<td>Ashworth Lanny J</td>
</tr>
<tr>
<td>Associate Professor, Respiratory Therapy; M.Ed., College of Idaho</td>
</tr>
<tr>
<td>Attkson Philip</td>
</tr>
<tr>
<td>Assistant Professor, Theatre Arts; M.A., State University of New York, Binghamton</td>
</tr>
<tr>
<td>Ayers Kathleen L</td>
</tr>
<tr>
<td>Associate Professor, Mathematics; Ph.D., University of Idaho</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>Assistant Professor, Teacher Education; M.A. University of Texas, San Antonio</td>
</tr>
<tr>
<td>Bain Craig E</td>
</tr>
<tr>
<td>Assistant Professor, Accounting; Ph.D., Texas A &amp; M</td>
</tr>
<tr>
<td>Baker Charles W</td>
</tr>
<tr>
<td>Professor, Biology; Ph.D., Oregon State University</td>
</tr>
<tr>
<td>Baker Richard P</td>
</tr>
<tr>
<td>Professor, Sociology; Ph.D., Washington State University</td>
</tr>
<tr>
<td>Baldassarre Joseph A</td>
</tr>
<tr>
<td>Associate Professor, Music; D.M.A., Case Western Reserve University</td>
</tr>
<tr>
<td>Baldner Ronald</td>
</tr>
<tr>
<td>Program Head; Senior Instructor, Welding; M.Ed., University of Idaho</td>
</tr>
<tr>
<td>Baldwin John B</td>
</tr>
<tr>
<td>Professor, Music; Ph.D., Michigan State University</td>
</tr>
<tr>
<td>Ball Richard</td>
</tr>
<tr>
<td>Professor, Mathematics; Ph.D., University of Wisconsin</td>
</tr>
<tr>
<td>Bardeen Brad P</td>
</tr>
<tr>
<td>Assistant Professor, Chemistry; Ph.D., University of New Orleans</td>
</tr>
<tr>
<td>Banks Richard C</td>
</tr>
<tr>
<td>Chairperson, Chemistry Department; Professor, Organic Chemistry; Ph.D., Oregon State University</td>
</tr>
<tr>
<td>Barnett Lloyd Dwayne</td>
</tr>
<tr>
<td>Assistant Professor, Finance; Ph.D., Texas A &amp; M</td>
</tr>
<tr>
<td>Barrett Gwynn W</td>
</tr>
<tr>
<td>Professor, History; Ph.D., Brigham Young University</td>
</tr>
<tr>
<td>Barsness Wylla D</td>
</tr>
<tr>
<td>Professor, Psychology; Ph.D., University of Minnesota</td>
</tr>
<tr>
<td>Bauwens Jeanne</td>
</tr>
<tr>
<td>Assistant Professor, Teacher Education; Ed.D., University of Idaho</td>
</tr>
<tr>
<td>Bechard Marc Joseph</td>
</tr>
<tr>
<td>Graduate Program Coordinator, Raptor Biology; Professor, Biology; Ph.D., Washington State University</td>
</tr>
<tr>
<td>Beltz Jeannette Marie</td>
</tr>
<tr>
<td>Associate Professor, Music; Ph.D., University of Kentucky</td>
</tr>
<tr>
<td>Benson Elmo B</td>
</tr>
<tr>
<td>Associate Professor, Art; Ed.D., University of Idaho</td>
</tr>
<tr>
<td>Bentley Elton B</td>
</tr>
<tr>
<td>Associate Professor, Geology, Geophysics; Ph.D., University of Oregon</td>
</tr>
</tbody>
</table>

Benton Danny | (1983)  |
| Standard Instructor, Drafting Technology; B.S., La Salle Extension University |
| Associate Professor, Music; D.M.A., Univ. of Wisconsin, Madison |
| Bernstein Louis | (1989)  |
| Assistant Professor; Ph.D., University of Kansas |
| Bi etier J Patrick | (1969)  |
| Professor, Teacher Education; Ed.D., University of Idaho |
| Bigelow John D | (1982)  |
| Professor, Management; Ph.D., Case Western Reserve University |
| Bixby Michael B | (1981)  |
| Associate Professor, Education; M.S., University of Denver |
| Blain Michael | (1983)  |
| Associate Professor, Sociology; Ph.D., University of Illinois |
| Blankenship Jim | (1977)  |
| Professor, Art; M.F.A., Otis Art Institute |
| Bledsoe Cristy | (1989)  |
| Assistant Professor, Nursing; B.S.N., University of Colorado, Boulder |
| Boren Robert R | (1971)  |
| Chairperson, Communication Department; Professor, Communication; Ph.D., Purdue University |
| Borman LeAnne | (1987)  |
| Instructor, Nursing; B.S., Idaho State University; B.S., University of Colorado |
| Bounds Karen J | (1973)  |
| Associate Professor, Business and Office Education; Ed.D., North Texas State University |
| Boyer Dale K | (1968)  |
| Professor of English; Ph.D., University of California, Los Angeles |
| Bratt J Wallis | (1970)  |
| Associate Professor, Music; M.M., University of Utah |
| Breder Susan I | (1969)  |
| Professor, Computer Systems; Ph.D., University of Iowa |
| Britton Alan P | (1975)  |
| Professor, Philosophy; Ph.D., University of Kansas |
| Brown Marcellus | (1989)  |
| Associate Professor, Music; M.M., University of Michigan |
| Brown Timothy | (1977)  |
| University Librarian; Associate Professor, Library Science; M.S., University of Illinois |
| Brownfield Theodore E | (1979)  |
| Advanced Instructor, Heavy-Duty Mechanics (Diesel) |
| Buhler Peter | (1980)  |
| Professor, History; Ph.D., University of California, San Diego |
| Burkey Ralph | (1973)  |
| Program Head; Senior Instructor, Drafting Technology |
| Burrmaster Orvis | (1968)  |
| Assistant Professor, English; M.A., University of Montana |
| Buss Stephen R | (1979)  |
| Chairperson, Theatre Arts Department; Associate Professor, Theatre Arts; Ph.D., Washington State University |
| Butler Doris A | (1981)  |
| Advanced Instructor, Business & Office Education; Diploma, Boise State University |
| Button Sherman G | (1976)  |
| Professor, Physical Education; Ph.D., University of Utah |
| C |
| Cade Tom | (1987)  |
| Director, Raptor Research; Professor, Raptor Biology; Ph.D., University of California, Los Angeles |
| Cadwell Dan E | (1981)  |
| Senior Instructor, Business Machine Technology; A.A.S., Boise State University |
| Callaghan Kathleen | (1988)  |
| Assistant Professor, Nursing; M.S., University of Wyoming |
| Capell Harvey J | (1982)  |
| Assistant Professor, Decision Sciences, Computer Systems; M.B.A., Northwestern University |
| Carlton Janet | (1974)  |
| Senior Instructor, Business & Office Education; M.A., Boise State University |
Faculty

Carpenter Connie S .................................. (1986) Associate Professor, Nursing; Ed.D., Oklahoma University
Carter Loren S .................................... (1970) Professor, Chemistry; Ph.D., Washington State University
Castleberry Robert ................................ (1968) Instructor, Truck Driving
Centanni Russell ................................... (1973) Professor, Biology; Ph.D., University of Montana
Chastain Garvin .................................... (1973) Professor, Psychology; Ph.D., University of Texas, Austin
Christensen James L (1970) Associate Professor, Sociology; Ph.D., University of Utah
Christensen Steve .................................... (1988) Assistant Professor, Teacher Education; Ph.D., University of Idaho
Clark Marvin A ...................................... (1969) Professor, Computer Information Systems; Ph.D., University of Minnesota, Minneapolis
Colby Conner ........................................ (1970) Chairperson, Respiratory Therapy; Professor, Respiratory Therapy; Ph.D., University of Montana
Corbin A Robert ...................................... (1967) Assistant Professor, Sociology; Th.M., Iliff School of Theology
Cornell Robert ........................................ (1969) Professor, Business Communication; Ed.D., Arizona State University
Cox T Virginia ........................................ (1967) Associate Professor, Anthropology; Ph.D., University of Georgia
Cox Marvin ............................................. (1977) Professor, Communication; Ph.D., University of Kansas
Crane David E ........................................ (1969) Head Catalog Librarian, Catalog Department, Library; Associate Professor, Library Science; M.A., California State University, San Jose
Craner G Dawn ....................................... (1975) Associate Professor, Communication; M.A., Purdue University
Curtis Elizabeth "Merle" .............................. (1971) Program Head, Senior Instructor, Surgical Technology; M.Ed., University of Idaho

D

Dahm Norman ........................................ (1953) Chairperson, Construction Management & Pre-Engineering Department; Professor, Engineering; M.Ed., University of Colorado
Dalton Jack L ......................................... (1958) Professor, Chemistry; M.S., Kansas State University
Davis Charles ......................................... (1963) Professor, English; Ph.D., University of North Carolina, Chapel Hill
Dayley Jon Philip ..................................... (1982) Associate Professor, English; Ph.D., University of California, Berkeley
Dennis Gerald R ............................... (1989) Instructor, Water/Wastewater Technology
Dodson Jerry .......................................... (1970) Professor, Psychology; Ph.D., Purdue University
Dodson Robert B ..................................... (1979) Senior Instructor, Electronics Service Technology; B.S.E.E., Seattle University
Donaldson Paul R ............................... (1975) Professor, Geology, Geophysics; Ph.D., Colorado School of Mines
Donghue Dennis J .................................... (1973) Professor, Political Science; Ph.D., Miami University of Ohio
Dorman Patricia .................................... (1967) Professor, Sociology; Ph.D., University of Utah
Douglas Dorothy P ................................. (1981) Professor, Biology; Ph.D., University of California, Berkeley
Douglas J D Jr ....................................... (1972) Professor, Art; M.F.A., Cranbrook Academy of Art
Downs Richard R .................................... (1975) Counseling Psychologist, Counseling & Testing Center; Associate Professor, Psychology; Ed.D., Ball State University
Draayer Gerald F .................................... (1976) Director, Center for Economic Education; Associate Professor, Economics; Ph.D., Ohio University
Duffy Alfred M ....................................... (1988) Assistant Professor, Zoology; Ph.D., State University of New York, Binghamton
Dykstra Dewey I, Jr .............................. (1981) Associate Professor, Physics; Ph.D., University of Texas, Austin

Eastman Phillip .................................. (1977) Associate Dean, Arts & Sciences; Professor, Mathematics; Ph.D., University of Texas

Edmundson Eldon ................................. (1976) Dean, College of Health Science; Professor, Public Health, Health Science; Ph.D., Washington State University
Edmundson Phyllis J ............................. (1974) Professor, Teacher Education; Ed.D., University of Northern Colorado
Egland Barbara ................................... (1964) Manager, Business and Service Division; Instructor, Business and Office Education; M.S., University of Idaho
Eliison Patt ........................................ (1986) Chairperson, Medical Record Science; Assistant Professor, Medical Record Science; M.A., Boise State University
Elliott Catherine ................................. (1966) Chairperson, Educational Technology; Professor, Music; M.Ed., Central Washington University
Ellis Robert W ...................................... (1971) Professor, Biochemistry; Ph.D., Oregon State University
English Denise M .................................. (1987) Assistant Professor, Accounting; Ph.D., Indiana State University
English Thomas J .................................. (1987) Assistant Professor, Accounting; Ph.D., Arizona State University
Entorf John F ...................................... (1989) Dean and Professor, College of Technology; Ed.D., Texas A & M
Ericson Robert F ................................. (1970) Associate Professor, Theatre Arts; Ph.D., University of Oregon
Eveles Stuart D ..................................... (1972) Assistant Professor, English; M.A., Vanderbilt University

F

Fahleson Genger A ............................... (1974) Associate Professor, Physical Education; Ph.D., University of Wyoming
Farnsworth Judy .................................. (1989) Associate Professor, Nurse Education; Ph.D., University of Idaho
Feldman Alex ...................................... (1989) Assistant Professor, Mathematics; Ph.D., University of Wisconsin, Madison
Ferguson David J ................................. (1970) Associate Professor, Mathematics; Ph.D., University of Idaho
Fletcher Allan W ................................. (1970) Professor, History; Ph.D., University of Washington
Foraker-Thompson Jane ......................... (1982) Associate Professor, Criminal Justice Administration; Ph.D., Stanford University
Fountain Carol E .................................. (1967) Director, A.S. Nursing Program; Associate Professor, Nursing; M.N., Montana State University
Fox Roy F .......................................... (1978) Coordinator, Composition, English Department; Associate Professor, English; Ph.D., University of Missouri, Columbia
Frankle Alan ....................................... (1984) Professor, Finance; Ph.D., University of Arizona
Frederick E Coston ............................... (1971) Director, Reading Education Center; Professor, Teacher Education; Ph.D., Syracuse University
Fremuth John C ................................. (1986) Assistant Professor, Political Science; Ph.D., Colorado State University
French Judith ...................................... (1976) Associate Professor, Teacher Education; Ph.D., Florida State University
Friedl Robert L .................................... (1972) Professor, Teacher Education; Ph.D., University of Utah
Fry Phillip C ...................................... (1987) Assistant Professor, Decision Sciences; Ph.D., Louisiana State University
Fuhriman Jay R .................................. (1982) Director, Bilingual Education; Associate Professor, Teacher Education; Ed.D., Texas A & I University
Fuller Eugene G ................................. (1967) Professor, Biology; Ph.D., Oregon State University
Furth Daniel L ..................................... (1989) Assistant Professor, Management; J.D., University of Illinois, Urbana-Champaign
C

Gabert Marvin C. .................................................. (1979)
Professor, Construction Management; M.S., Stanford University
Cais Wos Marvin .................................................. (1980)
Program Head; Standard Instructor, Agricultural Equipment Technology
Gains Charles R. .................................................. (1968)
Assistant Professor, Construction Management & Pre-Engineering; M.B.A., Boise State University
Gallup V Lyman .................................................. (1977)
Associate Professor, Decision Sciences; Ph.D., University of Oregon
Gehrke Pamela .................................................. (1968)
Assistant Professor, Nursing; M.S., University of Portland
Gill Karen S .................................................. (1985)
Catalog Librarian, Catalog Department, Library; Assistant Professor; A.M.L.S., University of Michigan
Glassen Gustav B .................................................. (1979)
Standard Instructor, Machine Shop; Certificate, Mergenthaler Linotype Co.

Glen Roy .................................................. (1982)
Associate Professor, Management; Ph.D., Case Western Reserve University
Gough Newell "Sandy" .................................................. (1989)
Assistant Professor, Management; M.B.A., University of Montana
Gourley Margaret .................................................. (1977)
Advanced Instructor, Child Services/Management; B.A., College of Idaho
Granholm Stephen B .................................................. (1982)
Chairperson, Mathematics Department; Associate Professor, Mathematics; Ph.D., University of Colorado
Green Gary I .................................................. (1988)
Department Chair and Associate Professor, Computer Systems & Production Management; Ph.D., University of Washington
Griffin Dennis .................................................. (1989)
Canyon County Division Manager; Instructor, Vocational Education; M.Ed., College of Idaho
Griffin John .................................................. (1983)
Associate Professor, Mathematics; Ph.D., Washington State University
Groebner David F .................................................. (1973)
Professor, Decision Sciences; Ph.D., University of Utah
Guerin Michael .................................................. (1986)
Assistant Professor, Teacher Education; Ph.D., University of Idaho

Gulford Charles .................................................. (1981)
Associate Professor, English; Ph.D., Northwestern University

H

Hadden James .................................................. (1972)
Assistant Professor, English; Ph.D., University of Washington
Haefer James A .................................................. (1982)
Associate Professor, Engineering; M.S.E.E., Montana State University
Hall Lee Edward .................................................. (1979)
Advanced Instructor, Auto Mechanics

Hambelton Benjamin E .................................................. (1975)
Assistant Executive Vice President; Director, Simplot/Micron Technology Center; Assistant Professor, Teacher Education; M.Ed., Utah State University
Harrison Warren .................................................. (1977)
Associate Professor, Philosophy; Ph.D., Syracuse University
Hart Richard L .................................................. (1978)
Dean, College of Education; Professor, Education; Ed.D., University of Nebraska, Lincoln
Hausch Alan R .................................................. (1977)
Professor, Mathematics; Ph.D., Brown University
Heap Felix A .................................................. (1978)
Professor, Art; Ph.D., University of Minnesota
Heise Frank K .................................................. (1971)
Executive Director, Morrison Center; Associate Professor, Theatre Arts; M.A., University of South Dakota
Heist Noreen .................................................. (1984)
Advanced Instructor, Practical Nursing; B.S.N., University of Utah
Henbest Margaret W .................................................. (1980)
Assistant Professor, Nursing; M.S., California State University, Long Beach
Hibbs Robert A .................................................. (1965)
Instructor, Analitical Chemistry; Ph.D., Washington State University
Hickman Vernon .................................................. (1987)
Instructor, Culinary Arts

Faculty

Hill Kenneth L .................................................. (1968)
Associate Dean, College of Education; Professor, Teacher Education; Ed.D., University of Idaho
Hoeger Werner W K .................................................. (1986)
Director, Human Performance Laboratory; Professor, Physical Education; Ed.D., Brigham Young University
Hogue Kenneth .................................................. (1983)
Program Head; Instructor, Heavy-Duty Mechanics (Diesel)
Hollieland Ken .................................................. (1968)
Dean, Graduate College; Professor, Geology; Ph.D., University of Idaho
Hoopees Gaye .................................................. (1978)
Associate Professor, Art; M.A., Boise State University
Hopfenbeck Ted H .................................................. (1967)
Associate Professor, Criminal Justice Administration; M.Ed., University of Arizona
Hourcade Jack Joseph .................................................. (1987)
Associate Professor, Teacher Education; Ph.D., University of Missouri, Columbia
Hsu Madeleine .................................................. (1971)
Professor, Music; Ph.D., New York University
Huff Daniel D .................................................. (1970)
Professor, Social Work; M.S.W., University of Kansas
Huff Howard .................................................. (1965)
Professor, Art; M.F.A., University of Idaho
Hughes Robert .................................................. (1971)
Professor, Mathematics; Ph.D., University of California, Riverside
Huskey Darryl L .................................................. (1968)
Head Librarian, Documents Department, Library; Associate Professor, Library Science; M.L., Emporia State University
Hyde Kenneth A .................................................. (1979)
Instruction Product Development Specialist, Simplot/Micron Technology Center; Assistant Professor, Education; M.Ed., Utah State University
Imbs Bonnie J .................................................. (1976)
Program Head; Senior Instructor, Dental Assisting; Certificate, State University of New York
Ison Gail .................................................. (1970)
Professor, Psychology; Ph.D., University of Oregon

J

Jansson Paul R .................................................. (1981)
Senior Instructor, Business Machine Technology; B.S.Ed., University of Idaho
Jarrett Mary K .................................................. (1987)
Assistant Professor, Mathematics; Ph.D., Montana State University
Jensen John H .................................................. (1969)
Director of HEP/CAMP, Trio Coordinator; Professor, Teacher Education; Ph.D., University of Oregon

Jensen Margaret G .................................................. (1982)
Associate Director, Bilingual Education; Associate Professor, Teacher Education; Ed.D., Texas A & I University
Jocums George A .................................................. (1973)
Professor, Foreign Languages; Ph.D., University of Michigan
Johnson David .................................................. (1980)
Chair and Associate Professor, Social Work; M.S.W., Rutgers State University
Jones Daryl E .................................................. (1986)
Dean, College of Arts & Sciences; Professor, English; Ph.D., Michigan State University
Jones Donald S .................................................. (1970)
Program Head; Senior Instructor, Business Machine Technology
Jones Errol D .................................................. (1982)
Associate Professor, History; Ph.D., Texas Christian University
Instructor, College of Technology; A.S.E.T., Madison Area Technical College
Juola Robert C .................................................. (1970)
Professor, Mathematics; Ph.D., Michigan State University
Kaupins Gundars Egons .................................................. (1986)
Assistant Professor, Management; Ph.D., University of Iowa
Keiser John H .................................................. (1978)
President, Boise State University; Professor, History; Ph.D., Northwestern University

K

Keiser John H .................................................. (1978)
President, Boise State University; Professor, History; Ph.D., Northwestern University

Keiser John H .................................................. (1978)
President, Boise State University; Professor, History; Ph.D., Northwestern University
Faculty

Kenny G Otis ........................................ (1976)
Associate Professor, Mathematics; Ph.D., University of Kansas

Kerr Charles R ..................................... (1977)
Professor, Mathematics; Ph.D., University of British Columbia

Killenster John ........................................ (1970)
Professor, Art; M.F.A., Cranbrook Academy of Art

Kincaid Larry G ..................................... (1988)
Reference Librarian; Associate Professor, Library Science; M.L.S.,
University of Washington

King Jay A .................................................. (1976)
Assistant Professor, English; M.A., New York University; Ph.D.,
University of British Columbia

Kinney Richard ....................................... (1975)
Professor, Political Science; Ph.D., University of Notre Dame

Kirtland William ..................................... (1969)
Professor, Teacher Education; Ed.D., Arizona State University

Kjellander Paul ........................................ (1989)
Assistant Professor, Applied Technology, Special Projects Unit Direc-
tor, KBSU Radio; M.A., Ohio University

Kober J Alfred ......................................... (1968)
Professor, Art; M.S., Fort Hays State University

Koeppen David R ...................................... (1986)
Associate Professor, Accounting; Ph.D., University of Wisconsin,
Madison

Kozar Bill ................................................ (1989)
Associate Professor, Physical Education; Ph.D., University of Iowa

Kraker Thomas L ........................................ (1977)
Chair, Radiologic Sciences; Associate Professor, Radiologic Sciences;
Ed.M., College of Idaho

Kulm Julia Hosman .................................... (1987)
Instructor, Culinary Arts; A.A.S., Boise State University

La Cava Gerald ....................................... (1982)
Professor, Decision Sciences; Ph.D., University of Kansas

Lagerstrom Dessa L .................................. (1989)
Instructor, Practical Nursing; M.P.A., Boise State University

Lambert Carroll ....................................... (1976)
Professor, Teacher Education; Ed.D., Utah State University

Lamet Daniel G ........................................ (1970)
Professor, Mathematics; Ph.D., University of Oregon

Lane Richard C ......................................... (1969)
Associate Professor, Marketing; M.S., Kansas State University

Lathen William ....................................... (1984)
Chairperson, Accounting Department; Associate Professor, Account-
ing; Ph.D., Arizona State University

Lauterbach Charles E ................................ (1971)
Professor, Marketing; Ph.D., Virginia Poly Inst & State University

Leahy Margaret K .................................... (1982)
Instructor, Nursing; B.S., University of San Francisco

Leach Richard .......................................... (1977)
Professor, English; Ph.D., University of California, Davis

Leon Manuel ............................................. (1985)
Assistant Professor, Psychology; Ph.D., University of California, San
Diego

Lester Jody ............................................. (1983)
Assistant Professor, Respiratory Therapy; M.A., Boise State University

Lewis Ray .................................................. (1956)
Associate Professor, Physical Education; M.S., University of Idaho

Lichtenstein Peter M ................................ (1975)
Professor, Economics; Ph.D., University of Colorado

Lincoln Douglas J ..................................... (1980)
Professor, Marketing; Ph.D., Virginia Poly Inst & State University

Lindsey Melinda ....................................... (1987)
Assistant Professor, Teacher Education; Ph.D., University of Oregon

Lojek Helen .............................................. (1983)
Associate Professor, English; Ph.D., University of Denver

Long Elaine M ........................................... (1975)
Chairperson, Community & Environmental Health; Associate
Professor, Nutrition; M.S., University of Iowa

Long James A ........................................... (1974)
Associate Chairperson, Biology Department; Associate Professor, Biology;
Ph.D., Iowa State University

Long Robert A ............................................. (1988)
Associate Professor, Dr. P.H., University of Texas Health Science Center at Houston

Loucks Christine ..................................... (1985)
Assistant Professor, Economics; Ph.D., Washington State University

Lovin Hugh T ............................................ (1965)
Professor, History; Ph.D., University of Washington

Luke Robert A ........................................... (1968)
Chairperson, Physics Department; Professor, Physics; Ph.D., Utah
State University

Lundy Phoebe J ........................................ (1966)
Associate Professor, History; M.S., Drake University

Lykken Briathra ........................................ (1972)
Associate Professor, English; D.A., Idaho State University

Lyons Lamont S ........................................ (1977)
Associate Professor, Teacher Education; Ed.D., University of
Massachusetts

MacDonald Patricia ................................. (1988)
Associate Professor, Nursing; M.S., University of Virginia

MacInnis Jean ......................................... (1962)
Senior Instructor, Dental Assisting

Madden Terry Jo ....................................... (1983)
Reference Librarian, Reference Department, Library; Assistant Pro-
fessor, Library Science; M.L., University of Washington

Maguire James H ..................................... (1970)
Professor, English; Ph.D., Indiana University

Maher Matthew ........................................ (1989)
Assistant Professor, Mathematics; Ph.D., University of Illinois

Maloof Giles .......................................... (1968)
Professor, Mathematics; Ph.D., Oregon State University

Manship Darwin W .................................... (1970)
Professor, Business Communication; Ed.D., Brigham Young
University

March Robert L ......................................... (1974)
Chair and Associate Professor, Criminal Justice Administration;
Ph.D., Sam Houston State University

Martin Carol A ........................................ (1972)
Chairperson, English Department; Professor, English; Ph.D., Catholic
University of America

Martin Kathleen A .................................... (1988)
Assistant Professor, Nursing; M.S., University of Portland

Mason Jon L ............................................. (1983)
Assistant Professor, Construction Management; M.S., University of
Santa Clara

Matjeka Anne L ....................................... (1981)
Reference Librarian, Curriculum Resource Center, Library; Associate Pro-
fessor, Library Science; M.L.S., State University of New York, Albany

Matjeka Edward R .................................... (1976)
Professor, Organic Chemistry; Ph.D., Iowa State University

Matson Constance .................................... (1968)
Assistant Professor, Nursing; M.Ed., University of Idaho

Mathews Professor E ................................ (1989)
Assistant Professor, Theatre Education; M.A., University of Kansas

Maxson Emerson C .................................... (1968)
Associate Professor, Computer Systems; D.B.A., Texas Tech
University

McCain Gary .......................................... (1979)
Professor, Marketing; Ph.D., University of Oregon

McCloskey Richard .................................. (1976)
Professor, Biology; Ph.D., Iowa State University

McCorkle Suzanne .................................. (1978)
Associate Professor, Communication; Ph.D., University of Colorado

McCrorie Duane R ..................................... (1985)
Assistant Professor, Radiologic Sciences; M.S., Whitworth College

McCulloch Donna ..................................... (1985)
Standard Instructor, Practical Nursing; B.S., Montana State University

McCuire Sherry ........................................ (1967)
Assistant Professor, English; M.A., Washington State University

McKie Gerald .......................................... (1983)
Program Head; Instructor, Electrical Lineworker; Certificate, Idaho
Power Company

McIuskie C Ed Jr ....................................... (1981)
Professor, Computer Science; Ph.D., University of Iowa

Director, Honors Program; Professor, Mathematics; Ph.D., Univer-
sity of Illinois

Medlin John J ........................................... (1975)
Associate Professor; M.B.A., University of Denver

Mercer Gary D .......................................... (1975)
Professor, Inorganic Chemistry; Ph.D., Cornell University

Merz C Mike ............................................ (1974)
Professor, Accounting; D.B.A., University of Southern California

196
Faculty

R
Ray Nina Marie
Assistant Professor, Marketing; Ph.D., Texas Tech University
(1986)

Rayborn David W
Associate Professor, Communication; M.S., Southern Illinois University
(1969)

Raymond Gregory A
Professor, Political Science; Ph.D., University of South Carolina
(1974)

Reimann Richard J
Professor, Physics; Ph.D., University of Washington
(1975)

Reynolds R Larry
Professor, Economics; Ph.D., Washington State University
(1979)

Ritchie Karen E
Assistant Professor, Teacher Education; M.S., College of Idaho
(1985)

Roberts George F
Professor, Art; M.F.A., University of Iowa
(1970)

Robertson John B
Associate Professor, Foreign Languages; Ph.D., University of Arizona
(1974)

Rozmajl Michon
Associate Professor, Music; Ph.D., University of Michigan
(1986)

Rudd Robert A
Assistant Professor, Communication; Ph.D., University of Oregon
(1985)

Russell James A
Professor, Art; M.F.A., University of Iowa
(1969)

Ruyle Asa M
Vice President, Finance and Administration; Bursar; Professor, Education; Ed.D., University of Missouri
(1976)

Ryder Mary Ellen
Assistant Professor, English; M.A., University of California, San Diego
(1988)

S
Sadler Norma J
Professor, Teacher Education; Ph.D., University of Wisconsin, Madison
(1973)

Sahni Chaman L
Professor, English; Ph.D., Wayne State University
(1975)

Sallie Steven S
Associate Professor, Political Science; Ph.D., University of Nebraska
(1981)

Samball Michael
Associate Professor, Music; D.M.A., North Texas State University
(1976)

Sanderson Richard K
Associate Professor, English; Ph.D., New York University
(1971)

Schack Sandra K
Assistant Professor, History; Ph.D., University of New Mexico
(1989)

Schaeper Marion
Assistant Professor, Mathematics; Ph.D., University of Kansas
(1988)

Schaefer Mark E
Chair and Professor, Sociology; Ph.D., University of Utah
(1964)

Schoedinger Andrew B
Associate Professor, Philosophy; Ph.D., Brown University
(1972)

Schooley Diane
Assistant Professor, Finance; Ph.D., University of Colorado, Boulder
(1989)

Schreifler Joseph S
Instructor, Electronics; B.S., California Polytechnic State University
(1981)

Schoedler Gerald H
Associate Professor, Music; D.M.A., University of Colorado
(1978)

Schoeder Gerald H
Associate Professor, Music; D.M.A., University of Colorado
(1978)

Schoeder Jeff D
Program Leader; Advanced Instructor, Small Engine Repair; A.A.S., Boise State University
(1981)

Scott Stanley V
Assistant Professor, Marketing; Ph.D., Ohio State University
(1985)

Seddon Carol
Associate Professor, Medical Records; M.S., Oregon State University
(1978)

Selandier Glenn E
Assistant Professor, English; M.A., Utah State University
(1966)

Selland Larry G
Executive Vice-President; Professor, Vocational Technical Education; Ph.D., Colorado State University
(1966)

Shalat Todd A
Assistant Professor, History; Ph.D., Carnegie-Mellon University
(1985)

Shankweiler William E
Professor, Theatre Arts; Ph.D., University of Denver
(1956)

Shannon Patrick
Professor, Decision Sciences; Ph.D., University of Oregon
(1985)

Shelly Vicki
Assistant Professor, Nursing; M.S., University of Washington
(1988)

Shelton Melvin L
Professor, Music; M.M., University of Idaho
(1968)

Shinn Bong
Associate Dean, College of Business; Professor, Management; Ph.D., University of Georgia
(1979)

Shurtleff-Young Cheryl
Assistant Professor, Art; M.A., University of Oregon
(1978)

Sims Robert C
Dean, School of Social Sciences & Public Affairs; Professor, History; Ph.D., University of Colorado
(1970)

Singletary Ted J
Assistant Professor, Teacher Education; Ph.D., University of Illinois, Urbana-Champaign
(1989)

Skillern William G
Professor, Interdisciplinary Humanities; Ph.D., University of Idaho
(1971)

Skoro Charles L
Chairperson, Economics Department; Associate Professor, Economics; Ph.D., Columbia University
(1962)

Skov Arne R
Professor, Art; M.F.A., University of Idaho
(1967)

Slough Manly Ed
Program Head; Instructor, Culinary Arts
(1987)

Sluder Stanley
Dean of Admissions; Instructor, Psychology; M.A., University of Oregon
(1983)

Spafford Stephen
Associate Professor, Applied Technology; Ph.D., University of Southern California
(1987)

Springer JoAnne W
Assistant Professor, Physical Education; M.S., University of Illinois
(1981)

Springer Pamela
Instructor, Nursing; M.S., California State University, Fresno
(1989)

Stack James D
Advanced Instructor, Electronics Service Technology; M.S., New Jersey Institute of Technology
(1984)

Staley Orland Scott
Professor, Radiologic Sciences; B.S., Boise State University
(1989)

Stark Frank W
Professor, Chemistry, Physical Science; M.S., Trinity College
(1957)

Steiger Harry L
Professor, Psychology; Ph.D., University of Kentucky
(1972)

Stitzel Thomas E
Dean, College of Business; Professor, Finance; Ph.D., University of Oregon
(1975)

Stokes Lee W
Associate Professor, Environmental Health; Ph.D., University of Minnesota, Minneapolis
(1987)

Straub Hilary
Assistant Professor, Nursing; M.S., Indiana University, Bloomington
(1984)

Strong Jan L
Orientation Librarian; Assistant to the University Librarian; Associate Professor, Library Science; M.L.S., University of Washington
(1973)

Suedmeyer Joan A
Associate Professor, Teacher Education; Ed.D., Syracuse University
(1986)

Sulanke Robert J
Professor, Mathematics; Ph.D., University of Kansas
(1970)

Sumter Bonnie J
Manager, Health & Services Division; B.S.Ed., University of Idaho
(1978)

T
Takeda Yozo
Professor, Mathematics; Ph.D., University of Idaho
(1969)

Teeter Donald W
Assistant Professor, Music; Ph.D., University of Oregon
(1968)
Takehara John S (1968) Professor, Art; M.A., Los Angeles State College

Talbot Kathleen (1989) Associate Professor, Economics; Ph.D., Tulane University

Taye John A (1975) Associate Professor, Art; M.F.A., Otis Art Institute

Taylor Adrien P Jr (1977) Head Librarian, Reference Department, Library; Professor, Library Science; M.A., University of Denver

Taylor David S (1972) Vice President, Student Affairs; Professor, Psychology; Ph.D., Michigan State University

Taylor Patricia A (1975) Associate Professor, Nursing; M.Ed., College of Idaho

Taylor Ronald S (1975) Associate Professor, Art; M.F.A., Utah State University

Thomason George (1975) Assistant Professor, Music; M.A., Boise State University

Thorngren Connie M (1970) Assistant Professor, Physical Education; M.Ed., Central Washington University

Tillman Charles (1977) Senior Instructor, Heavy Duty Mechanics-Diesel; Diploma, University of Idaho

Tisdale Janet (1989) Instructor, Practical Nursing; B.S., Montana State University

Tocci Marie Ann (1976) Senior Instructor, Practical Nursing; M.Ed., University of Idaho

Travis Darlene K (1989) Instructor, Radiologic Sciences; B.S., Idaho State University

Trusky Tom (1970) Professor, English; M.A., Northwestern University

Twight Charlotte (1986) Associate Professor, Economics; Ph.D., University of Washington

U

Uehling Karen S (1981) Assistant Professor, English; M.A., University of California, Irvine

Vahey JoAnn T (1973) Director, Baccalaureate Nursing; Professor, Nursing; Ed.D., Columbia University

Valverde Luis J (1965) Professor, Foreign Languages; Ed.D., University of California, Los Angeles

Vaughn Ross E (1973) Associate Professor, Physical Education; Ph.D., Washington State University

Vinz Ruth (1989) Assistant Professor, Teacher Education; Ph.D., Boise State University

Vinz Warren L (1968) Chairperson, History Department; Professor, History; Ph.D., University of Utah

Virta Alan (1988) Head of Special Collections, Library; Assistant Professor, Library Science; M.L.S., University of Maryland

Voigt Denise (1987) Instructor, Respiratory Therapy Technician, Vocational Technical

W

Waan Charles J (1981) Professor, Geology; Ph.D., University of Arizona

Waite Wendel W (1976) Professor, Teacher Education; Ph.D., Utah State University

Waldorf Larry L (1970) Assistant Professor, Management; Ph.D., Colorado State University

Wallace Steve R (1972) Assistant Professor, Physical Education; M.S., University of Utah

Walsh Anthony (1984) Associate Professor, Criminal Justice Administration; Ph.D., Bowling Green State University

Warberg William B (1977) Director, Internships/Cooperative Education; Associate Professor, Computer Systems; Ed.D., Oregon State University

Ward Frederick R (1969) Professor, Mathematics; Ph.D., Virginia Poly Inst & State University

Warner Kaaren C (1966) Assistant Professor, English; Ph.D., Indiana University, Bloomington

Watts Donald J (1971) Senior Instructor, Drafting Technology; B.S., University of Idaho

Weaver James B (1969) Director, Public Affairs Program; Associate Professor, Political Science and Public Affairs; Ph.D., University of Idaho

Wells David A (1986) Associate Professor; Music; M.M.E., VanderCook College of Music

Wertman Donald L (1979) Program Head; Senior Instructor, Machine Shop; A.A.S., Pennsylvania State University

White Craig (1980) Chairperson, Geology & Geophysics Department; Associate Professor; Geology, Geophysics; Ph.D., University of Oregon

White Harry (1988) Assistant Professor, Business; Ph.D., Oregon State University

Wicklow-Howard Marcia (1975) Chairperson, Biology Department; Professor, Biology; Ph.D., Oregon State University

Widmayer Jayne A (1981) Professor, English; Ph.D., University of Michigan

Wilcox Marguerite (1972) Associate Professor, Nursing; M.N., University of California, Los Angeles

Wilkinson Edwin E (1958) Dean, Student Special Services; Associate Professor; Psychology; M.S., Washington State University

Williamson A (1967) Secretary, Faculty Senate; Associate Professor, Business & Office Education; M.B.Ed., University of Idaho

Willis Lonnie L (1970) Professor, English; Ph.D., University of Colorado, Boulder

Wilson Monte D (1969) Professor, Geology; Ph.D., University of Idaho

Wiltering Jim (1976) Professor, Management; D.B.A., Texas Tech University

Wines William A (1984) Professor, Management; J.D., University of Michigan

Winstead Edmund W (1986) Professor, Music; D.M.A., Louisiana State University

Witt Stephanie L (1989) Assistant Professor, Political Science; Ph.D., Washington State University

Witte Mary (1989) Chairperson, Professor, Art; Ph.D., University of Wisconsin

Wojtkowski W Gregory (1982) Associate Professor, Computer Systems, Decision Sciences; Ph.D.; Case Western Reserve University

Associate Professor, Computer Systems, Decision Sciences; Ph.D.; Case Western Reserve University

Wojtkowski Wita (1983) Assistant Professor, Computer Systems, Decision Sciences; Ph.D.; Case Western Reserve University

Wollheim Peter (1989) Instructor, Communication; M.A., Simon Fraser University

Wood Spencer H (1977) Professor, Geology, Geophysics; Ph.D.; California Institute of Technology

Wyllie Gilbert A (1965) Associate Professor, Biology; Ph.D., Purdue University

Y

Young Jerry L (1964) Professor, Mathematics; Ed.D., University of Northern Colorado

Young Katherine (1988) Associate Professor, Teacher Education; Ed.D., Utah State University

Young Virgil M (1967) Chair and Professor, Teacher Education; Ed.D., University of Idaho

Younger Douglas R (1976) Associate Professor, Social Work; M.S.W., Indiana University

Z

Zaerr Linda M (1987) Assistant Professor; English; Ph.D., University of Idaho

Zirinsky Michael P (1973) Professor, History; Ph.D., University of North Carolina, Chapel Hill

Zirinsky Dr (1984) Professor; English; Ph.D., University of North Carolina, Chapel Hill
Boise State University Emeriti

Faculty

Dorothy Albertson, Professor, Office Administration (1953-1977)
Thelma F. Allison, Associate Professor, Home Economics (1946-1973)
John B. Barnes, President, Boise State University (1967-1977)
John Beites, Professor, Teacher Education (1970-1985)
John H. Best, Professor, Music (1947-1983)
Bill Bowman, Department Chair and Professor, Physical Education (1969-1985)
Phyllis Bowman, Assistant Professor, Physical Education (1969-1985)
J. C. Boyles, Assistant Professor, Physical Education (1949-1957, 1962-1984)
C. Griffith Bratt, Professor, Music (1946-1976)
James R. Buchanan, Assistant Professor, Welding (1959-1978)
Richard E. Bullington, Vice President for Information Extension, Professor, Teacher Education (1968-1989)
Clara Byrd, Associate Professor, Teacher Education, Library Science (1969-1978)
Erma M. Callies, Department Head and Counselor, Vocational Student Services (1969-1985)
William Carson, Associate Professor, Accounting (1963-1982)
Eugene B. Chaifee, President (1932-1967)
Ace H. Chatburn, Professor, Education (1944-1977)
R. Wayne Chatterton, Professor, English (1968-1983)
Doran L. Connor, Assistant Professor, Physical Education (1966-1989)
E. John Dahlberg, Professor, Teacher Education (1975-1980)
Mary Dallas, Program Head, Senior Instructor, Practical Nursing (1976-1989)
James D. Doss, Associate Dean, College of Business, Associate Professor, Management (1970-1984)
Clisby Edlefsen, Professor, Business (1939-1969)
J. Calvin Emerson, Associate Professor, Chemistry (1933-1940, 1960-1973)
Evelyn C. Everts, Associate Professor, Library Science (1957-1977)
Marjorie Fairchild, Associate Professor, Library Science (1966-1975)
Milton Fleshman, Assistant Professor, Auto Mechanics Technology (1959-1974)
H. K. Fritchman II, Professor, Biology (1954-1989)
Albert Fuehrer, Instructor, Auto Mechanics Technology (1965-1978)
John F. Hager, Associate Professor, Machine Shop (1954-1969)
Clayton Hahn, Associate Professor, Engineering (1963-1981)
Ralph W. Hansen, Associate University Librarian, Professor, Library Science (1979-1989)
Alice H. Hatton, Registrar (1959-1974)
Ken L. Hill, Professor, Education (1962-1970)
LaVar Holf, Instructor, Culinary Arts (1979-1986)
James W. Hopper, Associate Professor, Music (1970-1986)
Robert D. Jameson, Special Lecturer, Management (1988)
Helen R. Johnson, Associate Professor, Business Education (1955-1978)
Leo Jones, Professor, Biology (1972-1981)
Fenton C. Kelley, Associate Professor, Biology (1968-1989)
Leo L. Knowlton, Professor, Marketing (1965-1985)
Ellis W. Lamborn, Professor, Economics (1968-1989)
Max Lamborn, Instructor, Parts Counterperson (1972-1981)
John Leigh, Jr., Instructor, Drafting Technology (1971-1983)
Joan Lingenfelter, Program Head, Senior Instructor, Child Care Services (1973-1989)
Adelaide Anderson Marshall, Assistant Professor, Music (1939-1948, 1966-1972)
Ruth McRaney, University Librarian, (1940-1942, 1943-1977)
Carroll Meyer, Professor, Music (1948-1985)
Florence M. Miles, Professor, Nursing (1955-1980)
Kathryn Eckhardt Mitchell, Assistant Professor, Violin (1932-1938)
Donald J. Obbe, Professor, Botany (1946-1977)
Louis A. Peck, Chairperson and Professor, Art (1955-1969)
Margaret Peek, Associate Dean, College of Arts & Sciences, Professor, English (1967-1987)
John L. Phillips, Chairperson and Professor, Psychology (1954-1989)
Elaine C. Rockne, Director and Instructor, Medical Record Science (1968-1986)
Hazel M. Roe, Associate Professor, Office Administration (1942-1944, 1947-1969)
Duston R. Scudder, Professor, Marketing (1964-1987)
Frank Smartt, Assistant Professor, Mathematics (1958-1981)
Donald D. Smith, Professor, Psychology (1967-1984)
Lyle H. Smith, Director, Intercollegiate Athletics, Professor, Physical Education (1946-1981)
Robert Sylvester, Associate Professor, History (1963-1982)
Albert Tennyson, Instructor, Industrial Communications (1966-1977)
Carl W. Tipton, Associate Professor, Management (1965-1980)
James Tompkins, Assistant Professor, Industrial Communications (1963-1985)
David Torbet, Director, Counseling & Testing Center, Professor, Psychology (1966-1983)
G. W. Underkoffler, Associate Professor, Accounting (1952-1974)
Eunice Wallace, Associate Professor, English (1968-1978)
Gerald Wallace, Dean, Professor, College of Education (1968-1978)
Mont M. Warner, Professor, Geology (1967-1984)
John E. Warwick, Associate Professor, Communication (1963-1977)
Allen Weston, Senior Instructor, Drafting Technology (1964-1985)
Wayne E. White, Professor, Management (1965-1987)
Peter K. Wilson, Professor, Business Administration (1966-1977)
Ella Mae Winans, Associate Professor, Mathematics (1958-1983)

Professional Staff

Herbert W. Runner, Director, Institutional Research (1947-1984)

Classified Staff

Evelyn R. Bobo, Admissions Unit Supervisor (1968-1985)
Leona Brook, Custodian (1971-1989)
Ruth Ann Caylor, Monographs Assistant, Library (1967-1987)
Mary Cozine, Secretary-Office Coordinator, Counseling Center (1972-1984)
Elaine Durbin, Administrative Assistant, College of Health Science (1970-1986)
Patricia J. Durie, Secretary/Coordinator, Political Science (1970-1988)
Dorothy Haskins, Clerical Specialist, Curriculum Resource Center, Library (1972-1988)
Ione Jolly, Library Assistant I (1968-1986)
Inez Keen, Postal Service Supervisor (1969-1986)
Margaret McGhee, Administrative Secretary, College of Education (1970-1988)
Gloria Miller, Library Assistant III (1966-1986)
Marge L. Reid, Department Manager, Bookstore (1960-1984)
Elise Swanson, Secretary-Office Coordinator, Social Work (1972-1986)
Kathy Tipton, Transfer Credit/Graduation Evaluator (1969-1984)
INDEX

A

Absence, Attendance from Class 18

Academic Advising Center 37

Academic Calendar 3-4

Academic Enrichment and Special Programs 28-36

Academic Information 17-27

Academic Probation and Dismissal Policy 19-20

Accounting Courses 94

Accounting Degree 93-94

Accounting, Department of 93-94

Accounting, Minor 92, 94

Accreditation and Affiliation of Boise State University 6

Adding a Course 19

Address or Name Changes 10-11, 149-150

Addresses of University Contacts 2

Administration 206

Administrative Services Courses 103

Administrative Withdrawals 19-20

Admission Notification Procedures 10

Admission to Teacher Education 115

Admission to Upper Division Courses 20

Admissions Information 8-11

International Students 11

Graduate Students 11, 171

Special Undergraduate Students 10

Transfer of Vocational Technical/Academic Credits 10

Transfer Students 8-9

Vocational Technical Students 10-11, 149-150

Admissions, Graduate 11, 171

Adult Basic Education 34

Adult Learning Center 150

Advanced Placement (AP) Exams 31-32

Advanced Placement and Credit 31-33

Advising and Registration 18

Agricultural Equipment Courses 151

Agricultural Equipment Technology Program 151

Air Conditioning, Refrigeration, Heating Courses 167

Air Conditioning, Refrigeration, Heating Program 167-168

Alumni Association 39

Anthropology Courses 74

Anthropology Program 73-74

Anthropology, Department of 73-74

Apartments, University 16

Appeal, Right of 19

Application for Graduation 23

Apprenticeship Programs 150

Architecture—See Pre-Architecture 45

Area I—Arts and Humanities 22

Area II—Social Sciences 22

Area III—Natural Science—Mathematics 22

Army ROTC 34, 82-83

Art Courses 45-47

Art, Department of 41-47

Art Graduate Courses 180-181

Art, Master’s Degree 180-181

Art Minor 41, 43

Associate of Applied Science Degree 26, 150

Associate of Arts Degree 26

Associate of Science Degree Nursing Program 132-133

Athletics 39

Attendance and Absence from Class 18

Audit vs. Credit Registration 18

Audit/Credit Changes 19

Auto Body Courses 151-152

Auto Body Program 151

Auto Mechanics Courses 152

Automotive Mechanics Program 152

Automated Industrial Technician 152

Aviation Management Courses 101

B

Baccalaureate Degree Programs 93-94

Advertising Design 42-43

Anthropology 73

Anthropology-Social Science, Secondary Education 73

Art 41-42

Art, Secondary Education 42

Bachelor of Applied Science Degree 25-26, 148

Bachelor of Interdisciplinary Studies 25, 29

Biology 47-48

Biology, Secondary Education 48

Chemistry 50

Chemistry, Secondary Education 50

Communication 75

Communication, Secondary Education 75

Computer Information Systems 95

Construction Management 145-146

Criminal Justice Administration 78

Earth Science Education 56

Economics 97-99

Economics-Social Science, Secondary Education 98

Elementary Education 116

Elementary Education Bilingual/Multicultural 117-118

English 52-53

Environmental Health 128-129

Finance 162

General Business Management 100

Geology 56

Geophysics 56-57

Health Science Studies 129

History 79-80

History, Secondary Education 80

History-Social Science, Secondary Education 80

Management, Entrepreneurial 100

Management, Human Resource Management 100-101

Management, Transportation 101

Marketing 103

Mathematics Program 59-60

Mathematics, Computer Science Emphasis 60

Mathematics, Secondary Education 60

Medical Technology 137

Multi-Ethnic Studies 89

Music 63-65

Nursing Program 133-134

Philosophy 86

Physical Education, Non-Teaching 107-108

Physical Education, Secondary Education 107

Physics 68

Physics, Secondary Education 68

Political Science 84

PotENTIAL Science-Social Science, Secondary Education 84

Pre-Dentistry - Biology Option 136

Pre-Dentistry - Chemistry Option 136

Pre-Medicine - Biology Option 136

Pre-Medicine - Chemistry Option 136

Pre-Veterinary Medicine 137

Production & Operations Management 95

Psychology 113

Psychology, 55, Secondary Education 113

Radiologic Technology 140

Respiratory Therapy 142

Social Science 88

Social Work 87

Sociology 88

Theatre Arts 70

Theatre Arts, Secondary Education 70

Baccalaureate Degree Requirements 23-26

Bachelor of Applied Science Degree 25-26, 148

Bachelor of Arts Degree 23

Bachelor of Business Administration Degree 24

Bachelor of Fine Arts Degree 24-25

Bachelor of Interdisciplinary Studies 25, 29

Bachelor of Music Degree 25

Bachelor of Science Degree 24

Bilingual, Elementary Teacher Training Program 34, 117-118

Biology Courses 49-50

Biology, Department of 47-50

Biology, Graduate Courses 192

Biology Minor 41, 47

Board and Room Charges 15-16

Business and Office Education Courses 153-154

Business and Office Education Program 152-153

Business Development Center 35

Business Machine Technology Courses 154

Business Machine Technology Program 154

Business, MBA 174-175

Business Minor 92-93

C

Cable Public Access Channel 35

Calendar, Academic 3-4

Campus In Spain 33

Canadian Studies Courses 30

Canadian Studies Minor 30

Candidate, Master’s 173

Canyon County Center 33

Career Planning and Placement 38

Catalog Contents, Policy Statement Concerning Inside front cover

Center for Data Processing 35

Certificate of Completion, Vocational Technical Programs 150

Certification Endorsements for minor teaching areas 120-122

Certification Requirements and Endorsements for Secondary Education 119-120

Certification Requirements for Elementary Education 119

Challenges 33, 173

Changes in Registration 18-19

Charges, Board and Room 15-16

Chemistry Courses 51-52

Chemistry, Department of 50-52

Chemistry Graduate Courses 182-183

Chemistry Minor 41, 50

Child Care Courses 155

Child Care Program 155

Child Care Service 38

Class Standing of Students 17

Classification of Students 17

CLEP Exams 31

College Admission Core 9

College Assistance Migrant Program 34

College of Business Graduate Program 174-175

Colleges and Schools 40, 72, 91, 105, 127, 144, 145, 149, 171

Arts and Sciences 40

Business 91

Education 105

Graduate 171

Health Science 127

Technology 144

School of Applied Technology 145

School of Social Sciences and Public Affairs 72
Index

School of Vocational Technical Education 149
Communication Courses 76-77
Communication, Department of 74-77
Community and Environmental Health, Department of 128-131
Complete Withdrawal from the University 19
Computation of the Grade Point Average 18
Computer Capabilities 7
Computer Information Systems Courses 95-96
Computer Information Systems Degree 95
Computer Science Courses, Math Department 61
Construction Management Courses 147
Construction Management Program 145-146
Construction Management & Pre-Engineering Department of 145-148
Construction Management Minor 146
Consultation Services, Faculty & Staff 34
Contacts, Telephone Numbers and Addresses 2
Continuing Education 33
Cooperative Education 36
Core, General University Requirements 21-22
Correspondence, Extension and Religion Courses 23
Correspondence Study in Idaho 33
Counseling and Testing Center 37-38, 105
Course Adds 19
Course Descriptions
Accounting 94
Administrative Services 103
Agricultural Equipment 151
Air Conditioning 168
Anthropology 74
Art Courses 45-47
Art, Graduate 180-181
Auto Body 151-152
Auto Mechanics 152
Aviation Management 101
Biography 49
Biology, Graduate 192
Botany Courses 49
Business & Office Education 153-154
Business Machine Technology 154
Canadian Studies 30
Chemistry 51-52
Chemistry, Graduate 182-183
Child Care 155
Communication 76-77
Computer Information Systems 95-96
Computer Science, Math Department 61
Construction Management 147
Criminal Justice Administration 78-79
Criminal Justice Administration, Graduate 191
Culinary Arts 156-157
Dental Assisting 157
Diesel 163
Drafting Technology 158
Economics 99
Electrical Lineworker 158
Electronics Technology 160-161
Electronics Service Technology 159
Engineering, Pre 147-148
English 53-55
Enlight, Graduate 183
Environmental Health 130
Finance 103-104
Fire Service Technology 161-162
Fitness Activity 111-112
Foreign Language 82, 122-124
Forestry Courses 49
French 122
General Business 101-102
General Science 59
General Science, Graduate 181-182
Geography 57-58
Geology 58-59
Geology, Graduate 181
Geophysics 59
Geophysics, Graduate 187
German 122-123
Greek 82
Health Science 130-131
Heating 168
Heavy Duty Mechanics 163
History 80-82
History, Graduate 188
Honors 29
Horticulture 164
Humanities 55
Independent Study 30-31
Industrial Mechanics 164
Interdisciplinary Studies in the Humanities 29
Latin 82
Library Science 123
Linguistics 55
Machine Shop 165
Management 102
Marketing 104
Marketing-Mid-Management 104
Mathematics 61-62
Mathematics, Graduate 182
MBA Elective 175
MBA Required 174-175
Medical Records Courses 132
Medical Technology 138
Military Science Courses 83
Music Applied 65-66
Music, Ensemble 66
Music, General 66-68
Music, Graduate 184-185
Nursing Courses 133-135
Office Occupations 153-154
Philosophy 86
Physical Education 109-111
Physical Education, Graduate 185-186
Physical Science 69
Physics 69
Political Science 85
Political Science, Graduate 190-191
Practical Nursing 167
Pre-Engineering 147
Production & Operations Management 96
Professional Truck Driving 167
Psychology 114-115
Psychology, Graduate 179
Public Affairs 190-191
Radiologic Technology 140-141
Real Estate 104
Refrigeration 168
Respiratory Therapy 143
Respiratory Therapy 168
Russian 123
Small Engine Repair 169
Social Science 90
Social Work 87
Sociology 89-90
Sociology, Graduate 191
Spanish 123-124
Student Government 10
Surgical Technology 169
Surgical Technology 169
Theatre Arts 71
Truck Driving 167
Water/Wastewater Technology 169-170
Welding & Metal Fabrications Courses 170
Zoology Courses 49-50
Course Drops 19
Course Numbering System 20
Course Numbering System, Graduate 173
Course Numbers, University-Wide 21
Course Prerequisite Waivers 20
Credit vs. Audit Registration 18
Credit/Audit Changes 19
Criminal Justice Administration Courses 78-79
Criminal Justice Administration Courses, Graduate 191
Criminal Justice Administration Program, AS 78
Criminal Justice Administration Program, BA/BS 78
Criminal Justice Administration, Department of 78-79
Culinary Arts Courses 156-157
Culinary Arts Program 156
Cultural Opportunities 39
Curriculum and Instruction, Master's Degree 177
D
Data Center 35
Day Care Assistant/Supervisor 155
Dean's List 18
Degree Codes 27
Degree Programs
Baccalaureate Degree Requirements 21
Bachelor of Applied Science 25-26, 148
Bachelor of Arts 23
Bachelor of Business Administration 24
Bachelor of Fine Arts 24-25
Bachelor of Interdisciplinary Studies 25, 29
Bachelor of Music 25
Bachelor of Science 24
General University Requirements (Core) 21-22
Degree Requirements, General University (Core) 21-26
Dental Assisting Courses 157
Dental Assistant Program 157
Department Listings
Accounting 93-94
Agricultural Equipment Technology 151
Anthropology 73-74
Art 41-47
Auto Body 151
Auto Mechanics 152
Biography Department 47-50
Business and Office Education 151-154
Business Machine Technology 154
Chemistry 50-52
Child Care 154-155
Communication 74-77
Community and Environmental Health 128-131
Computer Information Systems & Production Management 94-96
Construction Management & Pre-Engineering 145-148
Criminal Justice Administration 78-79
Culinary Arts 155-157
Dental Assistant 157
Diesel 162-163
Dental Assisting Courses 157
Diploma Technology 157-158
Economics 96-99
Electrical Lineworker 158
Electronics Service Technology 158-159
Electronics Semi-Conductor Technology 160
Electronics Technology 159-160
Engineering, Construction Management & Pre-145-148
English 52-55
Finance 102-104
Fire Service Technology 161-162
General Business Management, Management 99-102
Geology, Geophysics 55-59
Geophysics, Geology 55-59
Health, Physical Education and Recreation 106-112
Heavy Duty Mechanics 162-163
History 79-82
Horticulture Service Technician 163-164
Industrial Environmental Technician 164
Industrial Mechanics/Automation 164
Machine Shop 165
Management 99-102
Manufacturing Technology 165-166
Marketing, Finance 102-104
Mathematics 59-62
Medical Record Science 131-132
Military Science 82-83
Music 62-68
Bachelor of Science 24
Nursing 132-135
Philosophy and Political Science 83-86
Physical Education 106-112
Physics 68-69
Political Science and Philosophy 83-86
Practical Nursing 167
Pre-Engineering, Construction Management & 145-148
Preprofessional Studies 135-138
Production Management, Computer Information Systems & 94-96
Professional Truck Driving 167
Psychology 112-115
Radiologic Sciences 139-141
Recreation, Health and Physical Education 106-112
Refrigeration, Heating & Air Conditioning 167-168
Respiratory Therapy 141-143
Respiratory Therapy Technician 168
Small Engine Repair 169
Social Work 86-87
Sociology 88-90
Surgical Technology 169
Teacher Education 115-126
Theatre Arts 69-71
Water/Wastewater Technology 169-170
Welding & Metal Fabrications 170
Diploma, Vocational Technical Programs 150
Disabled Student Program 38
Dismissal and Academic Probation Policy 19-20
Dismissal, Withdrawal and Probation Policies 19-20
Double Major 23
Drafting Technology Courses 158
Drafting Technology Program 157-158
Dropping a Course 19

E
Early Childhood, Master's Program 177
Earth Science, Master's Program 181
Economics Courses 99
Economics, Department of 96-99
Economics Minor 93, 96-99
Education, Department of Teacher 115-126
Special Education 118
Education, Graduate Programs 176-183
Educational Media Services 35
Educational Placement 116
Educational Talent Search 34
Electrical Lineworker Courses 158
Electrical Lineworker Program 158
Electronics Service Technology Courses 159
Electronics Service Technology Program 158-159
Electronics Technology Courses 160-161
Electronics Technology Program 159-161
Elementary Bilingual Teacher Training Program 35
Elementary Education 177-178
Bilingual/Multicultural 117-118
Elementary Education, Certification Requirements for 119
Emiriti 200
Engineering, Pre-Courses 147-148
Engineering, Pre-Program 146-147
Engineering, Pre-Construction Management, Department of 145-148
English Courses 53-55
English, Department of 52-55
English, Graduate Courses 183
English, Master's Program 183
English Minor 41, 53
English Minor for Theatre Arts 71
Enrollment Verification 17-18
Environmental Health Courses 130
Environmental Health, Department of Community and 128-131
Evaluation of Military Experience 32-33
Evaluation of Transfer Credits 9
Exercise & Sport Science, Master's 185-186
Extension, Correspondence and Religion Courses 23

F
Facilities of the campus 6-7
Facilities Utilization 35
Faculty Initiated Withdrawal 19
Faculty List 193
Fees and Tuition 11-13
Fees, Board and Room 15-16
Fees, Other 12
Fees, Special Workshops 12
Fifth Year, Masters in Education 178
Final Examination Requirements, Masters 173
Finance Courses 103-104
Finance Degree 102
Finance, Department of Marketing & 102-104
Financial Aid 13-15
Financial Aid for Foreign Students 136-137
Financial Aid Programs 13-14
Non-Resident Waivers 13
Pell Grants 13
Perkins National Direct Student Loan 13
Scholarships 13-14
SEOG, SSIG 13
Short Term Loans 14
Stafford Guaranteed Student Loan 14
Student Employment 13
Work Study (CWSP) 13
Financial Aid Progression Rate 14
Financial Aid Time Limits 15
Fire Service Technology Courses 161-162
Fire Service Technology Program 161

G
GED Preparation 150
GED Training 149, 150
General Business Courses 101-102
General Business Management Program 100
General Course Information 20-21
General Information 5-7
General Science Courses 59
General Science Graduate Courses 181-182
General University Requirements (Core) 21-22
Geography Courses 57-58
Geology Courses 58-59
Geology/Geophysics, Department of 55-59
Geology Graduate Courses 181
Geology, Graduate Program 186
Geophysics Courses 59
Geophysics, Department of Geology 55-59
Geophysics, Masters Program 186-187
Geophysics, Masters courses 187
Gerontology, Minor 30
German Courses 122-123
Grading System 18
Graduate 500-level Courses, Undergraduate Enrollment in 20, 172
Graduate Classifications 172
Graduate College 171-192
Graduate Courses for Undergraduate Credit 20, 172
Graduate Credit for Seniors 172
Graduate Credit Requirements 173
Graduate Degree Application for Graduation 174
Graduate Education 177
Graduate Faculty 172
Graduate Programs 171
Graduate Programs, College of Education 114, 176-183
Graduate Repeat, Retakes 172
Graduate Scholarship Requirements 172
Graduate Studies in Bilingual Education Scholarships 34
Graduation, Honors 23
Graduation Requirements 21-27
Graduation, Application for 23
Graduation, Masters, Application for 174
Greek Courses 82

H
Health Science Courses 130-131
Health, PE & Recreation Department 106-112
Heavy Duty Mechanics—Diesel Courses 163
Heavy Duty Mechanics—Diesel Program 163
High School Equivalency Program (HEP) 34
History of Boise State University 5-6
History Courses 80-82
History Degree Program 79-80
History, Department of 79-82
History Graduate Courses 188
History, Master's Program 187-188
Honors Courses 29
Honors, Graduation 23
Honors Program 28-29
Honors Program Scholarships 29
Horticulture Courses 163-164
Horticulture Program 163
Housing, Off Campus 16
Housing, Student 15-16
Humanities Courses 55

I
Idaho Business Development Center 35
Incomplete Grades 18
Independent Study 30-31
Industrial Environmental Technician Program 164
Industrial Mechanics Courses 164
Industrial Mechanics Program 164
Instructional Technology, Masters 178
Instructional Television Fixed Service 35
Instructional Television for Students 35
Insurance Coverage 12, 38
Interdisciplinary Studies in Aging 30
Interdisciplinary Studies in the Humanities 29-30
Interdisciplinary Studies in the Humanities Courses 29-30
International Students 38
Internships/Cooperative Education 35-36
ITFS (Instructional Television Fixed Service) 35

K
KAID 35
KBSU 35

L
Late Registration 19
Latin Courses 82
Library 7
Library Science Courses 123
Linguistics Courses 55

M
Machine Shop Courses 165
Machine Shop Program 165
Majors and Degrees Offered 27
Management Courses 102