College of Education

Dean: Richard L. Hart, Ed.D.
Associate Dean: Lamont S. Lyons, Ed.D.

College of Education Emeriti:
Beitia, B. Bowman, P. Bowman, Boyles, Burtch, Chathurn, Fairchild, Hill, Marks, D.Smith, L.Smith, Torbet, Wallace

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
Counseling and Testing Center 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, MAT, and others.

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 scheduled between 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 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
Chairman and Professor: Glenn Potter; Professor: Button; Associate Professors: Hoeger, Lewis, Pfeiffer, Vaughn; Assistant Professors: Connor, Fahnle, Miller, Pellickoff, Spitzer, Thorngren, Wallace; Special Lecturers: Craner, Koto, Moore, Sandmire, Sawyer, Van Wassenhove; Educational Consultants: Priest, Wade, Weiss.

Degrees Offered
- 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 two undergraduate options with different areas of specialty.

1. Teaching Option: For students seeking to certify as teachers at the K-6, 7-12 or K-12 grade levels.
   a. Exercise Science: For 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. Athletic Training: For students preparing for the National Athletic Trainers Association Certification Examination and qualification as an Athletic Trainer in a college, professional sport or sports medicine clinic.
   d. Commercial/Industrial Fitness: This program is designed to prepare students to take the American College of Sports Medicine Health/Fitness Instructor Certification Examination and for employment in fields related to the Commercial/Fitness sector.

Department Admission Requirements
Admission to Upper Division Standing: Admission policies provide students an opportunity to be evaluated by the Physical Education Department faculty prior to enrollment in upper division PE classes.

Students must make formal application to the PE Major Selection Committee for admission to upper division standing. Applications must be submitted at the beginning of the second semester, sophomore year. Deadlines will be posted in G-209.

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 courses. (Application may be made whenever the student is enrolled in the last of the courses listed.)
   - E 101-102 English Composition
   - P 101 General Psychology (AREA II CORE)
   - Z 111 Fund of Speech Communication (AREA II CORE)
   - PS 100 Found of Physical Science (AREA III CORE)
   - OR
   - E 101-102 General Physics (AREA III CORE)
   - PE 100 Health Education
   - PE 101 Foundations of PE
   - PE 113 Rhythmic Skills
   - PE 114 Fitness Foundation
   - PE 115 Tumbling Skills
   - PE 117 Sports Skills
   - PE 122 Advanced First Aid or equivalent
   - PE 230 Applied Anatomy
   - PE 284 Microcomputers in PE or equivalent
   - Z 111 Anatomy and Physiology (AREA III CORE)
   - Z 112 Anatomy and Physiology (AREA III CORE)
3. The student's overall GPA at the time of application will determine acceptance to upper division standing as indicated below:
   a. 2.50 or above = unconditional acceptance
   b. 2.25 to 2.49 = provisional acceptance
   c. below 2.25 = denial
4. In addition, each PE Department faculty member will have an opportunity to submit, in writing, recommendations as well as reservations regarding the student's:
   a. involvement in professional activities (e.g., the PE Major's Club, departmental projects, etc.)
   b. skill level, considering both academic and physical skills.
   c. commitment to becoming a professional physical educator.

Such letters must be signed by the faculty member and will be kept in the student's file available to the student upon request.

The Selection Committee will review each application file and the student will be granted unconditional acceptance, provisional acceptance or denial of upper division standing.

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

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PHYSICAL EDUCATION CORE REQUIREMENTS
(Required of all 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 P 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 PE—PE 451 .............................................. 3

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 ................................................. 3

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

SOPHOMORE YEAR

Applied Anatomy PE 230 ......................................... 3
Microcomputers in PE—PE 284 or equiv .............. 3
Internship PE 293 .............................................. 3
Found of Education TE 201 AREA II CORE ........ 3
Fund of Speech Comm CM 111 AREA II CORE .... 3
Found of Physical Science PS 100 AREA III CORE ... 6

OR

General Physics PH 101-102 AREA III CORE ........ 3
AREA I CORE-Second & Third Fields .................. 4
AREA II CORE-Sociology Elective ...................... 3
*Fitness Activity ........................................... 2
Electives .................................................... 4

JUNIOR YEAR

Curriculum Proficiency PE 300 .................................. 3
Instructional Styles PE 304 .................................... 3
Human Growth and Motor Learning PE 306 .......... 3
Evaluation in Physical Education PE 309 .......... 3
Exercise Physiology PE 310 ................................ 3
Kinesiology PE 311 ............................................ 3
*Fitness Activity ........................................... 2
Educational Psychology P 325 ................................ 3
Reading in Content Subject TE 407 .................... 3
Educational Technology TE 356 ......................... 2
Secondary School Methods TE 381 ................. 2
AREA I CORE-Any Field .................................. 3

SENIOR YEAR

Adolescent Psychology P 312 .................................. 3
Educating Except Second Student TE 333 ............ 1
OR Adapted PE—PE 451 .................................... 3
Organization in Physical Education PE 457 ........ 2
*Fitness Activity ........................................... 2
Student Teaching .............................................. 10-16
Electives .................................................... 10

TOTAL 28-35

NOTE: Complete six (6) activity courses with at least one activity being selected from each category listed below. Physical Education (PE), Fitness Activities (FA) or one credit of varsity participation in a like activity may be used for credit. In cases where both PE & FA classes are offered, the PE activity must be taken.

2. DANCE: FA 121, 122, 123, 124, 125.
4. LEISURE: CM 133, 135, 171, 172, 173, Outdoor Adventure Course.

PHYSICAL EDUCATION, NON-TEACHING OPTION

ATHLETIC TRAINING 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
Training Room Procedures PE 120 .................... 3
Advanced First Aid & CPR PE 122 or equiv .... 3
AREA I CORE—Philosophy Elective ...................... 3

SOPHOMORE YEAR

Applied Anatomy PE 230 ......................................... 3
Microcomputers in PE—PE 284 or equiv .............. 3
Internship PE 293 .............................................. 3
Intro Athletic Trainers PTE 230 ........................ 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
Essen of Chemistry C 107-110 AREA III CORE .... 3

JUNIOR YEAR

AREA II CORE—Sociology Elective ...................... 3
Human Growth & Motor Learning PE 306 .......... 3
Evaluation in PE—PE 309 .................................... 3
Exercise Physiology PE 310 ................................ 3
Kinesiology PE 311 ............................................ 3
Conditioning Procedures PE 313 ........................ 2
Nutrition H 207 .............................................. 2
Medical Terminology H 101 ................................. 2
Adolescent Psychology P 312 ................................ 3
AREA I CORE—Third & Any Field ...................... 3

SENIOR YEAR

Adapted PE—PE 451 ........................................... 3
Psycho/Social Aspects of Activity PE 401 ............ 2
Internship PE 493 .............................................. 2
Fitness Testing PE 404 ...................................... 2
Health Programs: Methods & Admin. PE 415 .... 2
Advanced Athletic Training PE 402 ................. 2
Training Room Modalities PE 403 .................... 2
Theory & Appl Therapeutic Exercise PE 406 .... 2
Injury Evaluation PE 422 .................................... 2
Electives .................................................... 27

PHYSICAL EDUCATION, NON-TEACHING OPTION

BIOENGINEERING 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
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**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** ....................... 1  
**AREA I CORE-Philosophy Elective** ................................. 3  
**Digital Computer Programming CS 124/EN 104** .................. 2  

**SOPHOMORE YEAR**  
**Applied Anatomy PE 230** .......................................... 3  
**Microcomputers in PE—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 221 (AREA III CORE)** ........... 4  
**Intermediate Applied Programming MPH 225** ..................... 2  
**AREA I CORE-Second Field** ....................................... 6  
**AREA II CORE-Sociology Elective** ................................ 3  

**JUNIOR YEAR**  
**Human Growth & Motor Learning PE 306** ......................... 3  
**Evaluation in PE—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  
**EElectives** .............................................................. 9  

**SENIOR YEAR**  
**Adapted PE—PE 451** ................................................ 3  
**Psycho/Social Aspects of Activity PE 401** ......................... 3  
**Internship PE 493** .................................................... 1  
**EElectives** .............................................................. 16  


**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  
**Conditioning Procedures PE 114** .................................. 1  
**Tumbling Skills PE 115** ............................................. 1  
**Sports Skills PE 117** .............................................. 1  
**Advanced First Aid & CPR PE 122 or equiv** ....................... 1  
**AREA I CORE-Philosophy Elective** ................................. 3  

**SOPHOMORE YEAR**  
**Applied Anatomy PE 230** .......................................... 3  
**Microcomputers in PE—PE 284 or equiv** .......................... 3  
**Internship PE 293** .................................................... 1  
**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 PE—PE 309** ........................................... 3  
**Exercise Physiology PE 310** ....................................... 3  
**Kinesiology PE 311** .................................................. 3  
**Conditioning Procedures PE 313** .................................. 2  
**Internship PE 309** .................................................... 3  
**AREA I CORE-Third—Any Field** ................................... 10  

**SENIOR YEAR**  
**Cell Biology B 301** .................................................. 3  
**Organic Chemistry + Lab C 317-319** ............................. 5  
**Human Physiology Z 401** .......................................... 4  
**Psycho/Social Aspects of Activity PE 401** ......................... 3  
**Interim PE 493** ...................................................... 3  
**Fitness Testing PE 404** ............................................. 2  
**E Electives** .............................................................. 8  


**PHYSICAL EDUCATION, NON-TEACHING OPTION**  
**COMMERCIAL/INDUSTRIAL FITNESS 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  
**Conditioning Procedures PE 114** .................................. 1  
**Tumbling Skills PE 115** ............................................. 1  
**Sports Skills PE 117** .............................................. 1  
**Advanced First Aid & CPR PE 122 or equiv** ....................... 1  
**AREA I CORE-Philosophy Elective** ................................. 3  

**SOPHOMORE YEAR**  
**Applied Anatomy PE 230** .......................................... 3  
**Microcomputers in PE—PE 284 or equiv** .......................... 3  
**Internship PE 293** .................................................... 1  
**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  
**Essen of Chemistry C 107-110 (AREA III CORE)** ............... 9  

**JUNIOR YEAR**  
**Human Growth & Motor Learning PE 306** ......................... 3  
**Evaluation in PE—PE 309** ........................................... 3  
**Exercise Physiology PE 310** ....................................... 3  
**Kinesiology PE 311** .................................................. 3  
**Conditioning Procedures PE 313** .................................. 2  
**Internship PE 309** .................................................... 3  
**AREA I CORE-Third—Any Field** ................................... 10  

**SENIOR YEAR**  
**Psycho/Social Aspects of Activity PE 401** ......................... 3  
**Adapted PE—PE 451** ................................................ 3  
**Internship PE 493** .................................................... 6  
**Health Programs: Methods & Adm. PE 415** ..................... 2  
**Health Promotion in the Worksite PE 416** ....................... 2  
**E Electives** .............................................................. 7  

**NOTE: RECOMMENDED ELECTIVES: *(14-21 credits)* chosen from: B 101, 211, 212, 480, CM 221, 251, 435 CM 322, 351, 457, H 101,211,212,480, P 205,351,435 CM 221,251,478, SC 325, GB 101, MM 181, MG 301,317, MK 301,306 and Stress Management.**

### Course Offerings
See page 19 for definition of course numbering system

**PE PHYSICAL EDUCATION**

**Lower Division**

**PE 100 HEALTH EDUCATION** *(3-4-3)*. Covers nutrition, diseases, health needs, services, drugs, family living and personality structure and development. Aids student adjustment toward effective functioning in a changing environment. Required of all PE majors.
PE 101 FOUNDATIONS OF PHYSICAL EDUCATION (3-0-3)(FS). 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 majors.

PE 102 INTRODUCTION TO RECREATION (2-0-2S). Instruction in the growth and development of recreation education and its role in present-day society. Offered odd numbered years.

PE 113 RHYTHMIC SKILLS (0-2-1)(FS). 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)(FS). Assessment, prescription and development of an individualized physical fitness program. Designed to improve cardiovascular endurance, strength, flexibility and weight control. Required of all PE majors.

PE 115 TUMBLING SKILLS (0-2-1)(FS). Professional activities. Instruction and practice in tumbling 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.

PE 121 STANDARD FIRST AID & CPR (1-2-1)(FS). 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)(FS). Instruction in wounds, shock, poisoning, heat and cold injuries, skeletal injuries, water rescue, CPR extraction, emergency child birth and training required for police, fire and ski patrol personnel.

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

PE 124 VOLLEYBALL (0-2-1)(FS). Professional activities. Instruction and practice in volleyball, emphasizing fundamentals, strategy, conditioning and practical application.

PE 125 WATER SAFETY INSTRUCTOR'S COURSE (1-2-1)(S). Review of courses the student is eligible to teach. Teaching methods and practice teaching. Leads to ARC, WSI certificat. Must have ARC advanced lifesaving certificate and ARC swimming level of skill.

PE 126 WRESTLING (0-2-1). Professional activities. Instruction and participation in wrestling with emphasis on fundamentals, strategy, conditioning and practical application. Offered upon demand.

PE 127 BASKETBALL (2-6-2)(S). Instruction in methods of teaching basketball with emphasis on fundamentals, strategy, conditioning and practical application. Offered upon demand.

PE 130 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 131 INTRAMURAL ORGANIZATION (2-0-2F). Instruction in organization and administration of intramural activities. Offered in the fall on odd numbered years. PREREQ: Junior standing.

PE 132 INTRAMURAL ADMINISTRATION AND MANAGEMENT (2-0-2F). Instruction in the development of intramural programs for special groups and special situations. Offered in the fall on odd numbered years.

PE 133 PHYSICAL EDUCATION METHODS (2-0-2F). Instruction in methods of teaching physical education emphasizing fundamentals, skill progressions, conditioning and practical application. Offered on demand.

PE 134 SECONDARY SCHOOL DANCE METHODS (2-0-2F). Instruction in methods of teaching social, folk, square, rounds, mixers, and aerobic dance. Offered in the fall on even numbered years.

PE 201 APPLIED ANATOMY (2-2-3)(F). Investigation of human osteology, myology, anthropology and neurology as they relate to movement. Emphasis is on application of anatomy to principles of simple and complex movement. Required of all PE majors. PREREQ: Sophomore standing.


PE 203 SECONDARY SCHOOL DANCE METHODS (2-0-2F). Instruction in methods of teaching social, folk, square, rounds, mixers, and aerobic dance. Offered in the fall on even numbered years.

PE 204 INTRAMURAL ADMINISTRATION AND MANAGEMENT (2-0-2F). Instruction in the development of intramural programs for special groups and special situations. Offered in the fall on odd numbered years.


PE 206 INTRAMURAL ADMINISTRATION AND MANAGEMENT (2-0-2F). Instruction in the development of intramural programs for special groups and special situations. Offered in the fall on odd numbered years.

PE 207 INTERNSHIP (1-3 credits)(FS). Practicum field experience in physical education related areas. Practical experience utilizing theory and practice of the assigned activity in a school setting. Required in some options.

Upper Division

PE 201 APPLIED ANATOMY (2-2-3)(F). Investigation of human osteology, myology, anthropology and neurology as they relate to movement. Emphasis is on application of anatomy to principles of simple and complex movement. Required of all PE majors. PREREQ: Sophomore standing.


PE 203 SECONDARY SCHOOL DANCE METHODS (2-0-2F). Instruction in methods of teaching social, folk, square, rounds, mixers, and aerobic dance. Offered in the fall on even numbered years.

PE 204 INTRAMURAL ADMINISTRATION AND MANAGEMENT (2-0-2F). Instruction in the development of intramural programs for special groups and special situations. Offered in the fall on odd numbered years.


PE 206 INTRAMURAL ADMINISTRATION AND MANAGEMENT (2-0-2F). Instruction in the development of intramural programs for special groups and special situations. Offered in the fall on odd numbered years.

PE 207 INTERNSHIP (1-3 credits)(FS). Practicum field experience in physical education related areas. Practical experience utilizing theory and practice of the assigned activity in a school setting. Required in some options.

PE 208 MICROCOMPUTERS IN PHYSICAL EDUCATION (3-0-3)(FS). 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 209 EVALUATION IN PHYSICAL EDUCATION (3-0-3)(FS). Instruction in: evaluation of program; test construction and administration; statistical analysis and interpretation of test scores; computer applications for statistical analysis. PREREQ: Upper Division standing.

PE 210 EXERCISE PHYSIOLOGY (2-2-3)(FS). 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: Junior Standing, PE 230.


PE 212 COACHING BASEBALL (2-0-2S). Instruction in methods of coaching baseball with emphasis on fundamentals, strategy, conditioning and practical application. PREREQ: Sophomore standing. Offered Spring of odd numbered years beginning Spring, 1989.

PE 213 COACHING BASKETBALL (2-0-2F). Instruction in methods of coaching basketball with emphasis on fundamentals, strategy, conditioning and practical application. PREREQ: Sophomore standing.

PE 214 COACHING FOOTBALL (2-0-2F). Instruction in methods of coaching football with emphasis on fundamentals, strategy, conditioning and practical application. PREREQ: Sophomore standing.

PE 215 COACHING VOLLEYBALL (2-0-2F). Instruction in methods of coaching volleyball with emphasis on fundamentals, strategy, conditioning and practical application. PREREQ: Sophomore standing.

PE 216 COACHING WRESTLING (2-0-2). Instruction in methods of coaching wrestling with emphasis on fundamentals, strategy, conditioning and practical application. Offered in fall on even numbered years. PREREQ: Sophomore standing.

PE 217 VOLLIEBALL (0-2-1)(FS). Professional activities. Instruction and practice in volleyball, emphasizing fundamentals, strategy, conditioning and practical application.

PE 218 RHYTHMIC GYMNASTICS (2-0-2). 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 219 BIOCHEMISTRY (3-0-3)(S). Instruction in biochemical changes accompanying exercise and training with emphasis on application of scientific principles to training program design. Required of all PE majors. PREREQ: Junior Standing, PE 230.

PE 220 COACHING TRACK AND FIELD (2-0-2S). Instruction in methods of coaching track and field with emphasis on fundamentals, conditioning, meet organization/administration and practical application. PREREQ: Sophomore standing.

PE 221 COACHING GYMNASTICS (2-0-2F). Instruction in methods of coaching gymnastics with emphasis on fundamentals, conditioning, conditioning and practical application. Offered upon demand.

PE 222 COACHING TRACK AND FIELD (2-0-2S). Instruction in methods of coaching track and field with emphasis on fundamentals, conditioning, meet organization/administration and practical application. PREREQ: Sophomore standing.

PE 223 FIRST AID INSTRUCTOR TRAINER COURSE (1-2-1)(S). Review of courses the student is eligible to teach. Teaching methods and practice teaching. Leads to ARC, WSI certificate. Must have ARC advanced lifesaving certificate and ARC swimming level of skill.

PE 224 MICROCOMPUTERS IN PHYSICAL EDUCATION (3-0-3)(FS). 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 225 UPPER DIVISION (1-3 credits)(FS). Practicum field experience in physical education related areas. Practical experience utilizing theory and practice of the assigned activity in a school setting. Required in some options.

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College of Education

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

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

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

PE 403 TRAINING ROOM MODALITIES (2-0-2F). Instruction in theory and application of various therapeutic modalities for the 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 404 FITNESS TESTING (1-2-2S). Provides a theoretical and practical background in exercise testing in adult fitness. Course focuses on those objectives required for successful completion of the American College of Sports Medicine certification for a Health/Fitness Instructor. PREREQ: PE 310.

PE 405 CONSUMER HEALTH (2-0-2S). 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. Offered in the spring on even numbered years.

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

PE 415 HEALTH PROGRAMS: METHODS AND ADMINISTRATION (3-0-3S). 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 416 HEALTH PROMOTION IN THE WORKSITE (2-0-2F). Course is designed to familiarize students with current trends and health promotion strategies taking place in corporate, commercial and public sectors. Emphasis is on health risk factors, quackery avoidance, program implementation, needs assessment, education intervention and corporate culture. PREREQ: Junior standing.

PE 422 INJURY EVALUATION (2-0-2F). 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 interscholastic athletic program. PREREQ: Junior standing.

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

PE 451 ADAPTED PHYSICAL EDUCATION (3-0-3S). Survey of common differences and divergencies of people, emphasizing analysis of conditions, program development, and teacher responsibility. PREREQ: PE 230, 310.

PE 457 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (2-0-2F/S). Instruction in Organization and Administration of physical education 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: Junior standing.

PE 481 FACILITIES AND EQUIPMENT (2-0-2). Introduction 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 Credit(s)/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 FITNESS 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 will be granted for successful completion. Eight credits of fitness activity courses may be counted as electives 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 (1-2, 2-3).
   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—married 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—skin and scuba diving, etc.)

Lower Division

FA 111 KAYAKING (0-2-1F/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 (0-2-1F/S). Basic skin and scuba diving skills. Proper use of mask, fins and snorkel, mechanical use of equipment, safety techniques, and panic procedures. 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 I (0-2-1F/S). Basic water safety, skill and knowledge; floating, bobbing, diving, rhythmic breathing, treading water, and introduction to the crawl, side and elementary backstroke. For students who do not know how to swim. (Pass/Fail).

FA 114 RAFTING (0-2-1S). Basic skills of rating. 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 (0-2-1F/S). Instruction and participation in water aerobics for the development of cardiovascular and neuromuscular fitness. (Pass/Fail).

FA 116 CANOEING (0-2-1F/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 (0-2-1F/S). Learn the basic techniques of sailing. Instruction includes rigging, safety procedures, knot tying, terminology, boat care and navigation. Involves lectures and weekend sailing trip. Special fee: full time students exempt. (Pass/Fail).

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

FA 120 ROCK CLIMBING (0-2-1F/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 (0-2-1F/S). A structured class in the classics 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 countries. (Pass/Fail).

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

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

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

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

FA 133 BOWLING (0-2-1F/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 development 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 required. (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 and 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 falling, 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 human being. Gi required. (Pass/Fail).


FA 150 WINTER MOUNTAIN READING (0-2-1)(F/S). Course designed to teach a person how to cope with the mountain winter environment in comfort and safety. Includes mountain reading techniques, first aid, avalanche awareness, 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)(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). Fundamental 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. Special fee required. (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 required. (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, minnow, and terrestrial imitations. Techniques of catching and releasing of warm water, cold water, and anadromous fishes. Students furnish equipment and transportation. Special fee required. (Pass/Fail).

FA 155 FLY TYING 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).

FA 156 TRAP AND SKETE 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 their own shotshells, and trap range fees. (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 individualized 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 beginning endurance running. The student will be pretrained and placed in a level suitable to his/her capabilities as to age and condition. Designed to develop and maintain the cardiorespiratory 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 bodybuilding 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/diastress theories; in-depth practice of Hatha Yoga postures; in-depth breath control (abdominal breath). (Pass/Fail).

FA 167 RELAXATION TECHNIQUES (0-2-1)(S). 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. (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. (Pass/Fail).

FA 181 BASKETBALL I (0-2-1)(F/S). Instruction and participation in basketball for development of fundamental skills, rules, and basic 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 213 SWIMMING II (0-2-1). Instruction and participation in swimming for development of intermediate skills and techniques. Instruction in self-rescue skills, games, diving, and contests. Students must be able to swim 50 yards. (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 I (0-2-1). Instruction and participation in 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 I (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 223 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, 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. Gi 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. Gi required. PREREQ: FA 143. (Pass/Fail).

FA 244 SELF-DEFENSE II (0-2-1). Instruction and participation in advanced defensive tactics of Aikido, Judo, and Karate. Coordination of mind and body and nonaggressive application of laws of gravity and force. Gi required. PREREQ: FA 144. (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 273 TENNIS II (0-2-1). Instruction and participation in tennis for development of intermediate skills and techniques. Students furnish rackets. 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).
Department of Psychology

Education Building, Room 629  Telephone (208) 385-1207

Chairman and Professor: John L. Phillips, Jr.; Professors: Barsness, Chastain, Dodson, Ison, Snow, Steger; Associate Professors: Downs, Nelson, Nicholson, Wilkinson; Assistant Professors: Leon, Thurber; Special Lecturer: Stoner.

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 considerable latitude is allowed within the framework set by those requirements, as at least twelve hours of each student's coursework in psychology are "elective."

   The student should be aware, however, that even the elective courses function as parts of a total program designed to produce a graduate with a strong background in basic psychology, and he should not regard successful completion of that program as a preparation to perform psychological services. Rather, he 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.

5. Every Psychology major must sit for the graduate record examination (Both "Aptitude" and "Advanced") at some time during his/her senior year and have the results sent to the department.

Degree Requirements

PSYCHOLOGY MAJOR
Bachelor of Arts or Bachelor of Science Degree

1. Lower Division:
   a. Area I Total Credits .................................................. 15-18
      English Composition .................................................. 3-6

Core courses: ................................................................. 12
   Literature ................................................................. 3
   Second Area I Field .................................................... 3
   Third Area I Field ....................................................... 3
   Any Area I Field .......................................................... 3
   b. Area II Total Credits .................................................. 18

Core Courses ................................................................. 12
   General Psychology P 101 ................................................ 3
   History ............................................................................. 3
   Third Area II field ......................................................... 3
   Any Area II field ............................................................ 3
   Non-core courses: ........................................................... 6
   Physiological Psychology P 225 ........................................ 3
   Intro Practice of Psychology P 201 ..................................... 3
   c. Area III Total Credits ................................................... 16
   Core Courses ................................................................... 12*
   Concepts of Biology B 100 ............................................... 4
   Non-core courses ............................................................. 4
   Concepts of Human Anat & Phys Z 107 .............................. 4
   Mathematics ................................................................. 8*

   e. Additional core courses Any area .................................... 9

2. Upper Division
   a. Psychology Total Credits .............................................. 25
      Statistical Methods P 305 ............................................... 3
      Experimental Design P 321 ............................................. 3
      Psychological Measurement P 421 ................................... 3
      Learning P 441 ............................................................ 3
      Systems Seminar P 489 .................................................. 3
      Electives in Psychology ................................................... 9
   b. Upper Division Elective Credits ...................................... 15

3. Free Elective Credits ..................................................... 27-30

PSYCHOLOGY REQUIREMENTS

FOR CERTIFICATION BY STATE DEPARTMENT OF EDUCATION

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 ...................................... 9
TOTAL ................................................................................. 21

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

Recommended Program

PSYCHOLOGY MAJOR

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<th>1st SEM</th>
<th>2nd SEM</th>
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<tr>
<td>FRESHMAN YEAR</td>
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<tr>
<td>English Composition P 101-102</td>
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<tr>
<td>Concepts of Biology B 100</td>
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<tr>
<td>Concepts of Human Anat &amp; Phys Z 107</td>
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<tr>
<td>Intro to the Practice of Psychology P 201</td>
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<tr>
<td><strong>History (e.g. HY 101 or 102)</strong></td>
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<tr>
<td><strong>General Psychology P 101</strong></td>
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<tr>
<td><strong>Area I Core Electives</strong></td>
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<tr>
<td><strong>Area II Core Electives</strong> (e.g., AN 102-SO 101)</td>
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<td><strong>General Electives</strong></td>
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| 16 | 16 |

SOPHOMORE YEAR

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<tr>
<th>1st SEM</th>
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<tr>
<td><strong>Literature</strong></td>
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<td><strong>Mathematics Elective</strong></td>
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<td><strong>Mathematics Elective</strong></td>
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<td><strong>Physiological Psychology P 225</strong></td>
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<tr>
<td><strong>Area II Core Electives</strong> (e.g., AN 102-SC 101)</td>
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<td><strong>General Electives</strong></td>
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JUNIOR YEAR

**Computer Applications in Social Sciences SO 210** - 3

**Statistical Methods P 305** - 3

**Experimental Design P 321** - 4

**Psychology Seminar P 498** - 1

**Upper Division Psychology Electives** - 6

**Upper Division Electives (Psych. or other)** - 7 5

**Upper Division Electives (Psych. or other)** - 16 16

SENIOR YEAR

**Psychological Measurement P 421** - 3

**Experimental Research P 322** - 3

**Learning P 441** - 3

**Systems Seminar P 489** - 3

**Upper Division Electives (Psych. or other)** - 7 10

**Upper Division Electives (Psych. or other)** - 16 16

*Specifically required

**Courses approved for the Core

**Highly recommended for students planning for graduate school

**Is advisable for students planning for graduate school to obtain additional credits in mathematics and the sciences.

Course Offerings

See page 19 for definition of course numbering system

P . PSYCHOLOGY  Lower Division

**P 101 GENERAL PSYCHOLOGY (3-0-3)(SAREA III).** 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 (1-0-1HF).** 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 (3-0-2F).** Course specifically designed for "re-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)(FS).** 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.

**P 161 ASSERTIVENESS TRAINING (3-0-3)(FS).** 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).** An exposure to psychology as it is actually applied as professional practice in public and private settings. Direct interaction, through lecture and discussion, 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. PREQ: P 101.

**P 225 PHYSIOLOGICAL PSYCHOLOGY (3-0-3).** 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. PREQ: P 101, Z 107.

**P 251 PSYCHOLOGY OF ADJUSTMENT (3-0-3).** 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. PREQ: P 101.

**P 261 HUMAN SEXUALITY (3-0-3).** 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 values will be examined, and a values clarification unit will be included.

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

**P 301 ABNORMAL PSYCHOLOGY (3-0-3)(FS).** A descriptive approach to the study of the etiology, development, and dynamics of abnormal disorders, together with a review of current preventive and remedial practices. PREQ: P 101.

**P 305 STATISTICAL METHODS (3-0-3)(FS).** 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, probability and analysis of variance. PREQ: P 101, High School Algebra.

**P 311 CHILD PSYCHOLOGY (3-0-3)(FS).** A study of development and adjustment from conception to adolescence. Consideration will be given to both constitutional and environmental factors, to normal growth patterns, and to problem areas. PREQ: P 101.

**P 312 ADOLESCENT PSYCHOLOGY (3-0-3)(FS).** Chronologically a continuation of child psychology P 311; the special conditions of adolescent growth and adjustment will be considered. Consideration will be given to maturational and social patterns, and to behavioral, learning and other problem areas. PREQ: P 101.

**P 313 PSYCHOLOGY OF AGING (3-0-3).** An examination of the functional changes occurring during the aging process. Topics will include contemporary views on the basis of the life span development in perception, cognition, personality, achievement, and family relations. Attention will be given to mental health problems of the aged, diagnosis, and therapy. PREQ: P 101.

**P 321 EXPERIMENTAL DESIGN (2-4-4)(FS).** A critical examination of some psychological concepts that have relevance to the process of education. PREQ: P 101.

**P 331 THE PSYCHOLOGY OF HEALTH (3-0-3)(F).** Principles that have emerged from the experimental analysis of behavior will be examined. The principles include: but are not limited to, operant and classical conditioning. The course will deal with applications of these principles to the understanding and change of phobias, obesity, smoking, alcoholism, aberrant sexual behavior and similar problems. PREQ: P 101.

**P 341 PERCEPTION (3-0-3).** 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 some of the major findings is included. PREQ: P 101.

**P 343 THE PSYCHOLOGY OF THOUGHT (3-0-3).** Examines basic processes of attention and information processing. Emphasis is placed on developing effective communications and the representation of knowledge: reasoning, creativity, and computer simulation of these processes. PREQ: P 101.

**P 345 THE PSYCHOLOGY OF LANGUAGE (3-0-3).** Examines language structure, types of grammar, problems of meaning, competence versus performance, and social and cultural factors in language. PREQ: P 101.

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

**P 353 PSYCHOANALYTIC PSYCHOLOGY (3-0-3).** Human emotion and motivation, all thinking is verbal, linguistic determinism, and cultural factors in language. PREQ: P 101.

**P 371 SOCIAL PSYCHOLOGY OF SEX ROLES (3-0-3).** 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 repeated for psychology or sociology credit but not for both. PREQ: P 101 or SO 101.

**P 401 SENIOR REVIEW PRACTICUM (3-0-3)(FS).** A systematic coverage of the general principles of psychology and an opportunity to teach them to others. Practical experience in rendering academic assistance to beginning students and managing large classes. Consideration will be given to the discussion of difficulties encountered by those students. PREQ: Senior or 2nd-semester junior standing in psychology with an upper division GPA above 3.0 and PERM/INST.
P 405 ADVANCED STATISTICAL METHODS (3-2-4H). Statistical concepts and methods commonly used in the treatment of data in the social sciences will be covered. These include advanced analysis of variance (including repeated measure designs) and related trend tests, multiple comparison tests, and multiple correlation techniques. Whenever possible computer software programs for personal computers will be used to assist in the learning process. PREREQ: P 305.

P 421G PSYCHOLOGICAL MEASUREMENT (3-0-3F). 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 365.

P 431 SOCIAL PSYCHOLOGY (3-0-3S). The primary focus is the individual; the unit of analysis, the interpersonal behavior event. 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 (3-0-3F). 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 (3-0-3S). Theories and controversies in American Psychology. After a four-week historical orientation by the professor, the emphasis shifts to the present and more recent past, and the format shifts from lecture to seminar. PREREQ: Senior standing in Psychology.

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 (0-3-3F/S). An individual research project in psychology selected by student. Proposal must be approved by instructor before enrollment. Recommended projects are those which will contribute to 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 498 PSYCHOLOGY SEMINAR (1-0-1S). Selected topics of special interest to persons planning careers in psychology.

**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
- develop 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
- communicate to students and colleagues the joy of teaching and learning

The department devotes significant energy and resources to programs to 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 in-service 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, 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 last half of 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 II: 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 take the test during their 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.

**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.
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 Field Services, Department of Teacher Education, by:
1. February 15th of the Junior year for fall secondary student teachers andfall/spring elementary student teachers.
2. October 1st of the Senior year for spring secondary student teachers and spring/fall elementary student teachers.

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

NOTE: Six weeks notice will be required prior to the beginning date of the student teaching assignment if a student wishes to withdraw from student teaching.

General requirements for admission to student teaching for elementary or secondary candidates include:

Elementary Majors
1. Admission to Teacher Education.
2. Recommendation by the faculty advisor.
3. A cumulative grade point average of 2.50.
4. Elementary Curriculum and Methods, TE 451, 452, taken concurrently with or prior to student teaching.
5. Student teaching to be completed during 2 consecutive semesters.
7. A minimum of "C" in all required courses.

NOTE: An early childhood course must be taken prior to or concurrently with student teaching in a kindergarten classroom.

No student will be allowed credit towards his/her major department requirements for any grade of D.

Secondary Options
1. Admission to Teacher Education.
2. Recommendation by the faculty advisor or the Department chairman.
3. A minimum grade point average of 2.50 in each of the following areas:
   • major field.
   • minor field.
   • education course.
   • cumulative average for all university courses.
   • Minimum grade of C in TE 381, Secondary School Methods, and the appropriate class or classes in Special Methods for the teaching area.
   • Senior standing.
   • Sufficient credit hours in the assigned teaching area.

NOTE: Deviations from the above requirements must be approved by the department chairman.

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

ELEME NATARY 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
      NOTE: Students not required to take E 101 must complete additional 3 credits of English.

   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
      NOTE: Choose Third Field Electives from Art, Humanities, Music, Philosophy, Theatre Arts, and Foreign Language at 201 level or higher.

   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 (see Core requirements) ............................. 3
      Area II Elective (Econ or Polit Sci) ....................................... 3
      NOTE: For certification purposes, Elementary Education majors must complete a total of 12 semester hours in Social Science areas other than Psychology and Communication.

   d. Area III
      Requirements ........................................................................ 12
      See University Core Requirements.
      NOTE: Elementary Education majors must have courses in both Biological and Physical Sciences.

2. Professional Education Requirements

   a. Taught by other departments on campus
      Mathematics for Elem Teachers M 103-104 ......................... 8
      Music Fundamentals MU 101 .............................................. 2
      Elementary School Art Methods AR 311 .......................... 2
      Music Fundamentals MU 371 .............................................. 2
      Elementary School Methods AR 321 ................................. 3
      Elementary School P.E. Methods PE 361 ............................ 3
      Educational Psychology P 325 ............................................ 3
      Child Psychology P 311 ..................................................... 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
      Teaching Beginning Develop Reading K-3 TE 305 .............. 3
      Teaching Develop & Content Reading 4-6 TE 306 .............. 3
      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 ............................... 3
      Elem Student Teaching TE 471 ........................................... 3
      Elem Student Teaching TE 472 .......................................... 2
      Elem Student Teaching TE 473 .......................................... 5

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Recommended Program

**ELEMENTARY EDUCATION MAJOR**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
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<tr>
<td>Concepts of Biology (AREA III) B 100</td>
<td>3</td>
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<tr>
<td>Physical Science (AREA III) PS 100</td>
<td>3</td>
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<tr>
<td>Intro to Teaching IClass Observation TE 171</td>
<td>1</td>
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<tr>
<td>General Psychology P 101</td>
<td>3</td>
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<tr>
<td>AREA I Second Field: Art or Music</td>
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<tr>
<td>AREA I Third Field Elective</td>
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<tr>
<td>AREA II U.S. History</td>
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<tr>
<td>AREA II Geography</td>
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<td>AREA II Social Science: Economics or Political Science</td>
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<th>SOPHOMORE YEAR</th>
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<tr>
<td>Music Fundamentals MU 101</td>
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<tr>
<td>Foundations of Education TE 201</td>
<td>3</td>
</tr>
<tr>
<td>Intro to Teaching II: Instr Exp TE 271</td>
<td>1</td>
</tr>
<tr>
<td>Intro to Microcomputer in Classroom TE 208</td>
<td>3</td>
</tr>
<tr>
<td>Elementary Mathematics for Teachers M 103</td>
<td>4</td>
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<tr>
<td>Elementary Mathematics 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 Literature (E 271 or E 272)</td>
<td>3</td>
</tr>
<tr>
<td>AREA I Additional Literature Course</td>
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<tr>
<td>AREA II Social Science: SO 230 or AN 102</td>
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<td>AREA III Elective</td>
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<th>JUNIOR YEAR</th>
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<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>
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<tr>
<td>Music Methods for Elementary Teachers MU 371</td>
<td>3</td>
</tr>
<tr>
<td>Educational Psychology P 325</td>
<td>3</td>
</tr>
<tr>
<td>Child Psychology P 311</td>
<td>3</td>
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<tr>
<td>Speech Comm for Teachers CM 311 suggested</td>
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<tr>
<td>Electives</td>
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<td>First Semester:</td>
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<tr>
<td>Classroom Management Skills TE 457</td>
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<tr>
<td>Elem Curriculum &amp; Methods TE 451</td>
<td>6</td>
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<tr>
<td>Elementary Student Teaching TE 471</td>
<td>5</td>
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<tr>
<td>Second Semester:</td>
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<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</td>
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<tr>
<td>Student Teaching: Special Education TE 473</td>
<td>6</td>
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<tr>
<td>Electives</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>30</strong></td>
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</tbody>
</table>

**ELEMENTARY BILINGUAL/MULTICULTURAL MAJOR**

**Bachelor of Arts Degree**

NOTE: Completion of this degree as outlined in this catalog qualifies the student to receive a Standard Elementary Teaching Certificate from the State of Idaho, thus enabling him/her to teach in a regular or Bilingual elementary classroom.

**LANGUAGE COMPONENT**

**Spanish Section**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Intermediate Spanish (AREA I) S 201</td>
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<tr>
<td>Intermediate Spanish (AREA I) S 202</td>
<td>4</td>
</tr>
<tr>
<td>Advanced Spanish S 303</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Spanish S 304</td>
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**English As a Second Language (ESL) Section**

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<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Foundations of Teaching English as a 2nd Language TE 202</td>
<td>2</td>
</tr>
<tr>
<td>Identification &amp; Diagnosis of LEP Students TE 322</td>
<td>2</td>
</tr>
<tr>
<td>Methods of Teaching English as a 2nd Language TE 456</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Language Study LI 305</td>
<td>3</td>
</tr>
<tr>
<td>Applied Linguistics to Teach English as 2nd Lang LI 407</td>
<td>3</td>
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**English Section**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>English Composition E 101</td>
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<tr>
<td>English Composition E 102</td>
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<td><strong>TOTAL</strong></td>
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**MULTICULTURAL COMPONENT**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Survey of American Lit (AREA I) E 271 or 272</td>
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</tr>
<tr>
<td>Intro to Multi-Ethnic Studies (AREA II) SO 230</td>
<td>3</td>
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<tr>
<td>United States History (AREA II) HY 151 or 152</td>
<td>3</td>
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<tr>
<td>Mexican American Tradition &amp; Culture in Elem Class TE 278</td>
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**MATH/SCIENCE COMPONENT**

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<tr>
<td>Math for Elementary Teachers M 103</td>
<td>4</td>
</tr>
<tr>
<td>Math for Elementary Teachers M 104</td>
<td>4</td>
</tr>
<tr>
<td>Concepts of Biology (AREA III) B 100</td>
<td>4</td>
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<tr>
<td>Electives (Choose 2 from AREA III)</td>
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**PROFESSIONAL COMPONENT**

**General Education Section**

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<th>Course</th>
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<tr>
<td>Elementary School Art Methods AR 321</td>
<td>3</td>
</tr>
<tr>
<td>Music Meth for Elem School Teacher MU 371</td>
<td>2</td>
</tr>
<tr>
<td>General Psychology (AREA II) P 101</td>
<td>3</td>
</tr>
<tr>
<td>Child Psychology P 311</td>
<td>3</td>
</tr>
<tr>
<td>Elem School P.E. Methods PE 361</td>
<td>3</td>
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<tr>
<td><strong>TOTAL</strong></td>
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**Teacher Education Section**

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<th>Course</th>
<th>Credits</th>
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<tr>
<td>Intro to Teach I: Class Observation TE 171</td>
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<tr>
<td>Foundations of Education (AREA II) TE 201</td>
<td>3</td>
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<tr>
<td>Intro to Teach II: Instr Exp TE 271</td>
<td>1</td>
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<tr>
<td>Teaching Beginning Developmental Reading K-3 TE 305</td>
<td>3</td>
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<td>Teaching Developmental &amp; Content Reading 4-6 TE 306</td>
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<td>Children's Literature TE 316</td>
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<tr>
<td>Elementary Staff and Methods TE 451</td>
<td>3</td>
</tr>
<tr>
<td>Elementary Curric &amp; Methods TE 452</td>
<td>6</td>
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<tr>
<td>Teaching Read &amp; Lang Arts in Billing Class TE 453</td>
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<tr>
<td>Student Teaching in Elem Class TE 474-475</td>
<td>10</td>
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<td><strong>TOTAL</strong></td>
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**Total Professional Component**

**ELECTIVES**

Because of the need to prepare future teachers to teach in both bilingual and non-bilingual classrooms, it is recommended that elective classes 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 365 History of Mexico
- P 325 Educational Psychology
- PO 101 American National Government
- S 203 Spanish for the Native Speaker
- S 385 La Gente Mexico Americano en los Estados Unidos
- S 425 Mexican American Literature
- SO 297 Sociol. 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 356 Corrective Reading

**BILINGUAL TEACHER TRAINING TOTAL HOURS**

130
Recommended Program

**ELEMENTARY BILINGUAL/MULTICULTURAL MAJOR**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective AREA I</td>
<td>3</td>
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<tr>
<td>Intermediate Spanish S 201</td>
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<td>Intermediate Spanish S 202</td>
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<tr>
<td>General Psychology P 101</td>
<td>3</td>
</tr>
<tr>
<td>English Composition E 101/102</td>
<td>3</td>
</tr>
<tr>
<td>Intro to Teaching I: Class Observation TE 171</td>
<td>1</td>
</tr>
<tr>
<td>Math for Elementary Teachers M 103</td>
<td>4</td>
</tr>
<tr>
<td>Concepts of Biology B 100</td>
<td>4</td>
</tr>
<tr>
<td>Cultural Anthropology AN 102</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>32</strong></td>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
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<tbody>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Math for Elementary 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>3</td>
</tr>
<tr>
<td>Intro to Teaching II: Instruct Expert TE 271</td>
<td>1</td>
</tr>
<tr>
<td>Advanced Spanish S 303-304</td>
<td>6</td>
</tr>
<tr>
<td>Elective (AREA III)</td>
<td>4</td>
</tr>
<tr>
<td>United States History HY 151 or 152</td>
<td>3</td>
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<tr>
<td>Found of Teach English as 2nd Lang TE 202</td>
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</tr>
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<td><strong>TOTAL</strong></td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
<tr>
<td>Elementary School Art Methods AR 321</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Language Study LI 305</td>
<td>3</td>
</tr>
<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>Music Methods for Elem Teacher MU 371</td>
<td>2</td>
</tr>
<tr>
<td>Elective (AREA III)</td>
<td>4</td>
</tr>
<tr>
<td>Child Psychology P 311</td>
<td>3</td>
</tr>
<tr>
<td>Children's Literature TE 316</td>
<td>3</td>
</tr>
<tr>
<td>Identif &amp; Diagnos of LEP Child TE 322</td>
<td>2</td>
</tr>
<tr>
<td>Elem School Physical Education PE 361</td>
<td>3</td>
</tr>
<tr>
<td>Intro to Multi-Ethnic Studies SO 230</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Applied Linguistics in Teach ESL LI 407</td>
<td>3</td>
</tr>
<tr>
<td>Methods of Teaching ESL TE 456</td>
<td>3</td>
</tr>
<tr>
<td>Elementary Curriculum &amp; Methods TE 451</td>
<td>6</td>
</tr>
<tr>
<td>Student Teaching in Biling Elem Class TE 474-475</td>
<td>10</td>
</tr>
<tr>
<td>Elementary Curriculum &amp; Methods TE 452</td>
<td>3</td>
</tr>
<tr>
<td>Teaching Read &amp; Lang Arts in Biling Class TE 453</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

**Areas of Emphasis**

Students majoring in Elementary Education are strongly advised to select an Area of Emphasis, which will strengthen them as teachers and, therefore, improve their opportunities for employment. Courses taken for the Area of Emphasis may also count as courses required for general university requirements and for those in the Elementary Education major.

**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.................. 3
Teaching in Special Education TE 334.................. 3
Teaching Mildly Handicapped Adolescents TE 335........ 3
Diagnosis of the Handicapped TE 430.................. 3
Teach Read & Written Express to the Handicapped TE 431.. 3
Teaching Math and Language to the Handicapped TE 432.. 3
Behavior Intervention Techniques TE 450.................. 3
Classroom Management Skills TE 457.................. 2
Elementary Student Teaching in Special Education TE 473.. 5
**TOTAL** | **30**

**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
Study Teach in Classes for Severely Handicap 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:

<table>
<thead>
<tr>
<th>Area Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Behav &amp; Mgmt in Early Child Educ TE 361</td>
</tr>
<tr>
<td>Curriculum in Early Child Educ TE 362</td>
</tr>
<tr>
<td>Internship in Early Child Educ TE 293-493</td>
</tr>
<tr>
<td>Creat Materials in Early Child Educ TE 465</td>
</tr>
<tr>
<td>Student Teaching Kindergarten TE 472</td>
</tr>
</tbody>
</table>

**Electives 5 credits:**

| Infnt Education TE 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, 3 of which (TE 361 and 472) 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**

**READING Emphasis**

Required 17 credits:

<table>
<thead>
<tr>
<th>Area Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reading and Study Skills TE 108</td>
</tr>
<tr>
<td>Teaching Beginning Developmental Reading K-3 TE 305</td>
</tr>
<tr>
<td>Teaching Developmental &amp; Content Reading 4-6 TE 306</td>
</tr>
<tr>
<td>Children's Literature TE 316</td>
</tr>
<tr>
<td>Corrective Reading TE 358</td>
</tr>
<tr>
<td>Internship in Reading TE 493</td>
</tr>
</tbody>
</table>

**Electives 3 credits:**

| Literature for Young Adults TE 341 | 3 |
| Lit for use in Jr & Sr High School E 481 | 3 |

**NOTE:** This emphasis requires 20 credits, 9 of which (TE 305, 306, & 316) apply to Elementary Education major.

**TOTAL** | **20**

**ART Emphasis**

Required 22 credits:

<table>
<thead>
<tr>
<th>Area Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Art AR 103</td>
</tr>
<tr>
<td>Basic Design AR 105, 106</td>
</tr>
<tr>
<td>Drawing AR 111</td>
</tr>
<tr>
<td>Painting AR 113</td>
</tr>
<tr>
<td>Painting-Watercolor AR 217</td>
</tr>
<tr>
<td>Ceramics AR 225</td>
</tr>
<tr>
<td>Crafts AR 123</td>
</tr>
<tr>
<td>Elementary School Art Methods AR 321</td>
</tr>
</tbody>
</table>

**NOTE:** This emphasis requires 22 credit hours, 6 of which may apply to AREA I and 3 of which apply to the elementary education major.

**TOTAL** | **22**
BILINGUAL Emphasis
Required 21-credits:
Mexican American Tradition & Culture TE 278 - 3
Foundations of English as a 2nd Lang TE 202 - 2
ESL Identif, Test & Stu Placement TE 322 - 3
Bilingual Methods TE 454 - 3
Methods of Teaching Engl as 2nd Lang TE 456 - 3
Spanish * - 4-8

Must achieve a 2-02 level proficiency either by taking 100 and 200 level courses or by demonstrating proficiency through examination.

Electives 3 credits:
Intro to Multi-Ethnic Studies SO 230 - 3
Spanish for the Content Areas S 305 - 2
History of Minorities in U.S. HY 261 - 1

Cultural Anthropology AN 102 - 1

NOTE: This emphasis requires from 21 to 25 credit hours, depending upon student's level of Spanish proficiency. Eight credits of S 201 and S 202 may also apply to AREA I, and S 230 or AN 102, if elected, may apply to AREA II.

TOTAL 21-25

FRENCH Emphasis
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
Advanced French F 304 - 3
La Civilisation Francophone Moderne F 377 - 3

NOTE: This emphasis requires 22 credit hours, 8 of which may also apply to AREA I.

TOTAL 22

GERMAN Emphasis
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 - 8
Advanced German G 304 - 3
German Culture and Civilization G 377 - 3

NOTE: This emphasis requires 22 credit hours, 8 of which may also apply to AREA II.

TOTAL 22

HEALTH Emphasis
Required 15 credits:
Health Education PE 100 - 3
Nurition H 207 - 3
Concepts of Human Anat & Phys Z 107 - 4
Health Programs: Meth & Adm PE 415 - 3
Human Growth & Motor Learning PE 306 - 2

Electives 6 credits:
Human Sexuality P 261 - 3
Drugs: Use and Abuse H 109 - 3
Man and The Environment B 200 - 3
Disease Condition I H 211 - 3
Abnormal Psychology P 301 - 3

NOTE: This emphasis requires 21 credit hours.

TOTAL 21

LANGUAGE ARTS Emphasis
Required 21 credits:
Survey of American Literature E 271 or 272 - 3
Introduction to Literature E 131 - 3
Grammar & Language Use for Teachers TE 216 - 3
Fundamentals of Speech Communication CM 111 - 3

OR
Speech Communication for Teachers CM 311 - 3
Children's Literature TE 316 - 3
Teaching English Composition E 301 - 3
Intro to Language Studies LI 305 - 3

MATHMATICS Emphasis
Required 21 or 22 credits:
Elem Math for Teachers M 103 and 104 - 8
Math for Liberal Arts Students M 100 - 4
Intermediate Algebra M 106 - 4

Intro to Computers CS 109 - 3

NOTE: This emphasis requires 21 or 22 hours (depending upon whether M 108 or M 111 is taken), 14 of which apply to AREA III (8 of 12 AREA III credits must be in science), and 8 (M 103 & M 104) of which apply to Elementary Education major.

TOTAL 21-22

MUSIC Emphasis
Required 14 credits:
Intro to Music MU 133 - 1
Elements of Music MU 103 - 2

(In lieu of MU 101)

Teach Music in Elem Classroom MU 372 - 2

(In lieu of MU 371)

Private voice lessons (one year) - 4
Music Ensemble (one year) - 2
Basic Conducting MU 261 - 6

Electives 6 credits:
Piano or Guitar Lessons - 6

NOTE: This emphasis requires 20 credit hours, 3 of which (MU 101 & TE 311) may also apply to AREA I and 4 of which (MU 102 and TE 312) apply to an Elementary Education major.

This emphasis does not qualify a person to be certified as a music specialist.

TOTAL 20

PHYSICAL EDUCATION Emphasis
Required 13 Credits:
Rhythmic Skills PE 113 - 1
Tumbling Skills PE 115 - 1
Sports Skills PE 117 - 1

Human Growth & Motor Learning PE 306 - 3
Dance for Children PE 357 - 2
Elem School P.E. Methods PE 361 - 3

Motor Prog for Special Populations PE 369 - 2

Electives 8 credits:
Health Education PE 100 - 3
Nurition H 207 - 3
Concepts of Human Anat & Phys Z 107 - 4
Applied Anatomy PE 230 - 3
Exercise Physiology PE 310 - 3
Health Programs: Meth & Adm PE 415 - 3
Adaptive Physical Education PE 451 - 3

Volleyball PE 143 - 1
Basketball PE 144 - 1

Wrestling PE 217 - 1
Coaching Methods PE - 3

Internship in Elem P.E. PE 493 - 3

NOTE: This emphasis requires 21 credit hours, 3 of which (PE 361) apply to Elementary Education major.

TOTAL 21

SCIENCE Emphasis
Required 16 credits:
Concepts of Biology B 100 - 3
Foundations of Physical Science PS 100 - 3
Intro to Descriptive Astronomy PH 105 - 3

Fundamentals of Geology GO 100 - 3

NOTE: This emphasis requires 21 credit hours, 3 of which (PS 100) apply to Elementary Education major.

TOTAL 21
Electives 4 credits:
- Concepts of Chemistry C 100
- General Physics PH 101 & 102
- Algebra and Trigonometry
- Energy for Society EN 100
- General Botany BT 130

This sequence may be taken instead of PS 100. PREREQ: Area Credits
Total: 20 credits

SOCIAL STUDIES Emphasis
Required 24 credits:
- United States History HY 151-152
- History of Western Civilization HY 101-102
- Intro to Multi-Ethnic Studies SO 230
- Cultural Anthropology AN 102
- Contemporary Economic Problems EC 210

Electives 3 credits:
- Advanced Spanish S 303
- Advanced Spanish S 304
- Cultura y Civilization Hispanoamericano S 377

NOTE: This emphasis requires 24 credit hours, 12 of which may apply to AREA III.

TOTAL: 24

SPANISH Emphasis
Required 19 credits:
- Elementary Spanish S 101-102
- Intermediate Spanish S 201-202
- Teaching Methodology in Forn Lang FL 412

Electives 3 credits:
- Advanced Spanish S 303
- Advanced Spanish S 304
- Cultura y Civilization Hispanoamericano S 377

NOTE: This emphasis requires 24 credit hours, 12 of which may apply to AREA III.

TOTAL: 22

MIDDLE SCHOOL Emphasis
* MIDDLE SCHOOL/ART ELEMENTARY EMPHASIS
* MIDDLE SCHOOL/BILINGUAL ELEMENTARY EMPHASIS
* MIDDLE SCHOOL/FRENCH ELEMENTARY EMPHASIS
* MIDDLE SCHOOL/GERMAN ELEMENTARY EMPHASIS
* MIDDLE SCHOOL/HEALTH ELEMENTARY EMPHASIS
* MIDDLE SCHOOL/LANGUAGE ARTS ELEMENTARY EMPHASIS
* MIDDLE SCHOOL/MATHEMATICS-ELEMENTARY EMPHASIS
* MIDDLE SCHOOL/PHYSICAL EDUCATION ELEMENTARY EMPHASIS
* MIDDLE SCHOOL/READING ELEMENTARY EMPHASIS
* MIDDLE SCHOOL/SCIENCE ELEMENTARY EMPHASIS
* MIDDLE SCHOOL/SOCIAL STUDIES ELEMENTARY EMPHASIS
* MIDDLE SCHOOL/SPANISH ELEMENTARY EMPHASIS

Starred emphasis will lead to an endorsement on the elementary teaching certificate enabling the candidate to teach the specific subject matter in secondary schools.

Middle school emphasis, except for French, German, and Spanish, require 4 additional credit hours beyond the emphasis without the "Middlde School" prefix, as explained below:
- 3 additional credits by taking TE 402 Jr. High Student Teaching (5 CR) in lieu of TE 472 Elementary Student Teaching (S CR).
- The special methods class, FL 412 Teaching Methodology in Foreign Language, is required in the emphasis.

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.

Certification Requirements and Endorsements for Secondary Education
Certification standards for the State of Idaho are listed in the Bulletin, Idaho Certification Standards for Professional School Personnel-1985, as prepared by the Idaho Department of Education. Students from Boise State University will be recommended for a secondary teaching certificate to the State Department of Education after meeting the following requirements:
1. Completion of a Baccalaureate degree including Education requirements.
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 subject area specialization and the Department of Teacher Education. Such approval is to be based primarily on evidence of knowledge of the subjects to be 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.

A standard secondary certificate may be issued by the State Board of Education to any person of good moral character who has a Bachelor's degree from an accredited college or university and meets the following requirements:
- Idaho requires a minimum of 20 semester credit hours in the College of Education, which must include not less than six semester credit hours of secondary student teaching.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Alternatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Intro to Second Teach: Classroom Obs. TE 172</td>
<td>Single 1</td>
</tr>
<tr>
<td>Foundations of Education TE 201</td>
<td>Single 3</td>
</tr>
<tr>
<td>Educ Exceptional Second/Students TE 333</td>
<td>Dual 3</td>
</tr>
<tr>
<td>*Educational Technology TE 356</td>
<td>Single 2</td>
</tr>
<tr>
<td>Reading in Content Subjects TE 407</td>
<td>Single 3</td>
</tr>
<tr>
<td>Educational Psychology P 325</td>
<td>Single 3</td>
</tr>
<tr>
<td>Secondary School Methods TE 381</td>
<td>Single 3</td>
</tr>
<tr>
<td>Special Methods required by Major Department</td>
<td>Single 3</td>
</tr>
</tbody>
</table>

(varies by major)
Junior High Student Teaching: Single Option TE 484
OR
Senior High Student Teaching: Single Option TE 485
Total (not including special methods) 26 32

* 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 7 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 his/her 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, on page 115.

To be recommended for certification from Boise State University, the student must complete the Secondary Option degree program within a selected department. Such completion represents a major certification endorsement (at least 30 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,
- Art,
- Biology,
- Chemistry,
- Communication,
- Earth Science,
- Economics-Social Science, Secondary Education Option,
- English,
- History
- History-Social Science, Secondary Education Option,
- Mathematics,
- Music,
- Physical Education,
- Physics,
- Political Science-Social Science, Secondary Education Option,
- Sociology-Social Science, Secondary Education Option, and
- Theatre Arts.

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

NOTE: Completion of all requirements for graduation with a secondary education option may require more than 138 credit hours.

Minor Certification Endorsements

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.

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 .................................. 6
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

ART
- Introduction to Art AR 103 ...................................................... 3
- Basic Design AR 105-106 ....................................................... 6
- Drawing AR 111, 112 ............................................................ 2
- Painting AR 113, 114 ............................................................ 2
- 2 hrs from Sculpt, Metals ...................................................... 2
- "Craft ................................................................. 2
- Electives from 100-400 Regular Courses .................................. 7
- Suggested Electives: Art History, Lettering, Photography,
  Printmaking, Weaving and those listed above. .......................... 22

TOTAL 22

BIOLOGY
- General Botany BT 130 ......................................................... 4
- General Zoology Z 130 .......................................................... 4
- Cell Biology B 301 ............................................................... 5
- Genetics & Lab B 343, 344 .................................................... 4
- Elective course in Botany ....................................................... 4
- Elective course in Zoology ..................................................... 3-4
TOTAL 23-24

CHEMISTRY
- 100 level General Chemistry Courses ................................. 8-10
- Organic Chemistry Courses ................................................. 5
- Additional Courses in Analytical, Physical, Inorganic
  or Biochemistry ............................................................ 7
TOTAL 20-22

COMMUNICATION (Speech)
- Fundamentals of Speech CM 111 ............................................ 3
- Reasoned Discourse CM 112, Ceramics, Methods in Craft ....... 3
- Interpersonal Communication CM 221 ................................... 3
- Speech-Communication for Teachers CM 311 .......................... 3
- Methods of Teaching Communication CM 401 ........................ 3
- Electives selected from: ..................................................... 6
  Mass Communication CM 171 ............................................... 3
  Oral Interpretation CM 241 ............................................... 3
  Communication in the Small Group CM 251 .......................... 3
  Interviewing CM 307 ........................................................ 3
  Message Analysis and Criticism CM 331 ............................... 3
  Non-Verbal Communication CM 341 ..................................... 3
  Intercultural Communication CM 351 .................................. 3
TOTAL 21

EARTH SCIENCE
- Physical Geology GO 101 ..................................................... 4
- Historical Geology GO 103 .................................................... 4
- Introduction to Ocean Geology GO 201 ................................. 3
- Introduction to Meteorology GO 213 .................................... 3
- Introduction to Descriptive Astronomy PH 105 ...................... 4
- Electives selected from: ..................................................... 3
  Geology of Idaho & Pacific NW GO 213 ............................... 3
  Mineralogy GO 221 ........................................................ 3
  Geomorphology GO 313 ..................................................... 3
  Invertebrate Paleontology GO 351 ..................................... 3
  Physics of the Earth GP 325 ............................................. 3
TOTAL 21

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
- Linguistics
- Survey of American Literature E 271 or 272
- Teaching English Composition E 301 OR
- Methods of Teaching Secondary School English E 381
- Lower Division Literature E 230, 235, 240, 260, 215
- Upper Division Literature
- Successful completion of secondary writing proficiency

TOTAL 24

FOREIGN LANGUAGE
French
- Required 19 credits:
  - Elementary French F 101-102
  - Intermediate French F 201-202
  - Teaching Methodology in For Lang FL 412
  - Electives 3 credits:
    - Advanced French F 303
    - Advanced French F 304
    - La Civilisation Francophone Moderne F 377

NOTE: This emphasis requires 22 credit hours, 8 of which may also apply to AREA I.

TOTAL 22

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

NOTE: This emphasis requires 22 credit hours, 8 of which may also apply to AREA I.

TOTAL 22

Spanish
- Required 19 credits:
  - Elementary Spanish S 101-102
  - Intermediate Spanish S 201-202
  - Teaching Methodology in For Lang FL 412
  - Electives 3 credits:
    - Advanced Spanish S 303
    - Advanced Spanish S 304
    - Cultura y Civilización Hispanoamericana S 377

NOTE: This emphasis requires 22 credit hours, 3 of which may also apply to AREA I.

TOTAL 22

GEOGRAPHY
- Introduction to Geography GG 101
- Cultural Geography GG 102
- Upper Division Geography (minimum)
- Geography Courses (minimum)

TOTAL 20

GENERAL SCIENCE (NATURAL SCIENCE)
- Complete the basic sequence of courses in
  - BT 130 and Z 130
  - Chemistry C 107, 108, 109, 110
  - Geology GO 101-103
  - Physics PH 101-102

TOTAL 34

HEALTH EDUCATION FOR NON-PHYSICAL EDUCATION MAJORS
- Health Education PE 100
- Fitness Foundations PE 114
- Advanced First Aid PE 122
- First Aid Instr Trgn Course PE 123
- Health Prog: Meth & Adm PE 415
- Anatomy and Physiology Z 107
- Nutrition H 207

ELECTIVES: Select two (6)
- Drugs, Use and Abuse H 109
- Human Sexuality P 261
- Consumer Health PE 405

TOTAL 24

HEALTH EDUCATION MINOR FOR PHYSICAL EDUCATION MAJORS
- First Aid Instr Trgn Course PE 123
- Health Prog: Meth & Adm PE 415
- Nutrition H 207

ELECTIVES: Select two (6)
- Drugs, Use and Abuse H 109
- Human Sexuality P 261
- Consumer Health PE 405

TOTAL

HISTORY
- Lower Division
  - US Hist HY 151-152 or Prob in US Hist HY 251-252
  - West Civ HY 101-102 or Prob in West Civ HY 201-202
  - American Government (State-Required)
  - Upper Division Courses to include 3 credit hours of US History with remaining 9 credit hours selected from 2 or 3 major History areas (U.S., European, Third World)

TOTAL 24

MATHEMATICS
- Programming Languages CS 122 or CS 126
- Calculus M 204 or M 211
- Calculus M 205 or M 212

At least 1 of the following
- Linear Algebra M 301
- Introduction to Abstract Algebra M 302
- Foundations of Geometry M 311
- Fundamentals of Statistics M 361

Electives to complete 20 hours

TOTAL 20

MUSIC
- Instrumental Track
  - Materials of Music MU 119-120
  - Ear Training MU 121-122
  - Orientation to Music Education MU 271

- Strings, Use and Abuse H 109
- Human Sexuality P 261
- Consumer Health PE 405

TOTAL 24

ATHLETIC TRAINING MINOR FOR PHYSICAL EDUCATION MAJORS
- Essen of Chemistry & Labs C 107-110
- Medical Terminology H 101
- Nutrition H 207
- Training Room Procedures PE 120
- Intro Athletic Injuries PE 236
- Internship-Athl Trgn PE 293
- Conditioning Procedures PE 313
- Psych/Soc Aspects of Activity PE 401
- Advanced Athletic Training PE 402

TOTAL 43
## PHYSICS (PHYSICAL SCIENCE)

- General Physics PH 101-102 ........................................ 8
- Introduction to Descriptive Astronomy PH 105 ..................... 4
- Technical Drawing EN 108 ........................................ 2
- Engineering Graphics EN 108 ....................................... 2
- 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
- Political Science Electives (Upper Division) ......................... 9

**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 ................................. 9

**TOTAL** 21

## SOCIOLGY

- Introduction to Sociology SO 101 ................................... 3
- Social Statistics SO 310 ............................................. 3
- Social Research SO 311 ............................................. 3
- History of Sociology SO 401 ........................................ 3

**TOTAL** 42

## 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

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**Course Offerings**

See page 19 for definition of course numbering system

### FL FOREIGN LANGUAGE

**NOTE:** Most Foreign Language Courses require a lab fee.

#### Upper Division

**FL 412 TEACHING METHODOLOGY IN FOREIGN LANGUAGE (3-0-3).** Discussion of problems and trends in language learning applied to practical activities, culture preparation, testing, teaching aids and resource materials. Practicum—visitations, developing teaching plans, presenting teaching units. PREREQ: Nine Upper Division credits in one language or PERM/DEPT.

### 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-4).** 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 I).** 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. Alternate years.

- **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 1839, with emphasis on prose. May be repeated once for credit. PREREQ: F 202 or equivalent. Alternate years.

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**122**
F 359 LES GRANDES OEUVRES 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, Aymé, 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 influence of French civilization from the Middle Ages 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 101P 102P PROGRAMMED ELEMENTARY German (0-4-4). 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 101P 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 1). A continuation of G 101-102, this 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 writing 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 (3-0-3H). Major writers and periods provide samples from various genres and an overview of German literature. 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 18th Century. Special attention paid to contributions of Germany, Austria, and Switzerland to western civilization. Class conducted in German. PREREQ: G 202 or equivalent as determined by placement examination and consultation. Alternate years.

G 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: G 202 and minimum of six credits upper division German and/or inservice teaching and/or equivalency as determined by placement test and interview. Alternate years.

G 415 AUFKLARUNG UND DER STURM UND DRANG (18TH CENTURY) (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 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 UND KONSERVATIV (19TH CENTURY) (3-0-3). Selections from a wide cross-section of 19th century German Literature: Buchner, the "Young Germans", Grillparzer, Hebbel, Gotthelf, Keller, Stifter, Storm, C.F. Meyer and others. PREREQ: G 331 or PERM/INST. Alternate years.

G 445 DIE MODERNE ZEIT BEGINNT (1890-1945) (3-0-3). "isms," 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 "ALS DER KRIEG ZU ENDE WAHR...." (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 BITTER UND BAUR, GOTT UND MENSCH (1150-1720) (3-0-3). Survey: Middle Ages, Renaissance, Reformation, Baroque. Selections from heroic and courtly epics. Minnesang, moral tales and plays, religious pamphleteering, chapbooks, Fastnacht plays; Angelus Silesius, Gryphius, Grimmelshausen, 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 (3-3). 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 (1-2-1)(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.

LS 103 LIBRARY SKILLS II (0-2-1). Build 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 (2-3X)(SU). 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)(SU). Every third fall: 1984, 1987, ... every third summer: 1983, 1986, ... 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 (3-0-3,5,SU). Every third fall: 1985, 1988, ... Every third spring: 1984, 1987, ... Every third summer: 1983, 1986, ... Introductions 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)(SU). Spring of odd numbered years, every third summer: 1984, 1987, ... 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)(SU). Every third fall: 1985, 1988, ... Every third summer: 1983, 1986, ... Theory and principles of classification and cataloging of book materials, practice using Dewey Decimal Classification, preparing catalog cards, assigning subject headings and library filing. Bibliographic utilities 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. Class meets 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.
TE 278 MEXICAN AMERICAN TRADITION AND CULTURE IN THE ELEMENTARY CLASSROOM (2-0-2). An exploration of the Mexican-American cultural tradition, both with respect to its history as well as its influence on the contemporary American language, linguistics, dance, art, folklore, customs, beliefs, and institutions. Conducted in English. Offered in alternate years.

TE 291 EDUCATION OF THE EXCEPTIONAL CHILD (3-0-3). The course shall provide students, through classroom presentation, and readings, an opportunity to develop knowledge and skills related to the education of the exceptional child. All categories of exceptionality shall be explored as to its educational and psychological implications. Legal requirements, community resources 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). Prospective teachers will learn how to teach reading in the primary grades. Students will examine and demonstrate competency in using basal reading systems, the Language Experience approach and individualization of reading instruction. PREREQ: Junior Standing.

TE 306 TEACHING DEVELOPMENTAL AND CONTENT READING, GRADES 4-6 (3-0-3). Prospective teachers will learn how to teach reading in grades 4-6. Different grouping designs, the implementation of basal reader instruction, and individualization of reading will be covered. Study skills, content area reading, word recognition skills, dictionary skills, research and library skills, and higher order cognitive skills will also be taught. PREREQ: Junior Standing.

TE 316 CHILDREN'S LITERATURE (3-0-3(S)). 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 (2-2-2(S/SU). Familiarizes future teachers with language proficiency tests. Instruments such as the 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 adminster and interpret the results of these and other tests so as to properly place students in a level of ESL study.

TE 333 EDUCATING EXCEPTIONAL SECONDARY STUDENTS (1-1-1(S/F)). 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 (3-0-3(S)). The course is designed to provide the special education teacher an insight into and understanding of instruction of the handicapped. Topical presentations and activities include legal and educational implications, counseling and counseling with parents and professionals, utilization of school and community resources, professional publications and organization. PREREQ: TE 291.

TE 335 TEACHING MILDLY HANDICAPPED ADOLESCENTS (3-0-3(S)). Five topical areas related specifically to mildly handicapped adolescents will be examined. These are: Assessment procedures, eligibility criteria, service delivery options, intervention techniques, and instructional strategies. PREREQ: TE 344 or PERM/INST.

TE 340 TECHNOLOGY IN SPECIAL EDUCATION (2-0-2(S)). This course introduces special educators to uses of computers and technology that are especially valuable for the handicapped. Specific attention will be given to adapting the computer and technology to special student needs, Computer Assisted Instruction (CAI) and Computer Managed Instruction (CMI). PREREQ: TE 200 or PERM/INST.

TE 341 LITERATURE FOR YOUNG ADULTS (3-0-3(S)). This course will provide an appraisal of literature, including a multicultural component, appropriate to the needs, interests and abilities of young adults. It is intended for librarians, teachers and others interested in working with young adults. PREREQ: Three credits of lower division literature.

TE 356 EDUCATIONAL TECHNOLOGY (2-2-2(S)). This course will prepare students in secondary education to use a variety of educational technologies, including audio-visual equipment, television, and computers. Students will learn to prepare visual materials.

TE 358 CORRECTIVE READING: 3-0-3(S/L). A study of reading difficulties of elementary or secondary school pupils with emphasis upon diagnosis, and upon materials and methods of teaching. Opportunity is offered to consider learning disabilities related to ethnic and cultural differences by tutoring an elementary or secondary school pupil for approximately 20 sessions. PREREQ: TE 305.

TE 361 CHILD BEHAVIOR AND GUIDANCE IN EARLY CHILDHOOD EDUCATION (3-0-3(S)). The influence of home and school environments will be examined in relation to child behaviors. Social and emotional areas of development will be emphasized. Parent and teacher manuals will be examined in relation to theories and appropriateness in managing young children's behavior. PREREQ: P 101.

TE 362 CURRICULUM IN EARLY CHILDHOOD EDUCATION (3-0-3(F)). The preschool-primary curriculum will be examined in relation to readiness and academic skill development. An understanding of effective communications and conferring skills with parents will be emphasized. A variety of early childhood settings will be visited.

TE 381 SECONDARY SCHOOL METHODS (3-0-3). A study of the secondary school including methods and materials. Application is made to the students' teaching areas. Must be taken prior to student teaching. PREREQ: TE 201. Admission to Teacher Education.

TE 384 SECONDARY SCHOOL SCIENCE METHODS (3-0-3(S)). This course provides the theoretical and practical background for science instruction at the secondary level. Emphasis is placed on the development of teacher competency through the use of inquiry methods, questioning techniques, and the development of higher reasoning skills in students. Use of technology in science teaching is also treated.

TE 385 SECONDARY SCHOOL SOCIAL STUDIES METHODS (3-0-3(S)). This course will examine effective methods for teaching secondary social studies. Curriculum organized either by a general social studies format or by a single social science discipline or history will be studied and effective teaching strategies will be identified, analyzed and practiced. PREREQ: TE 381 or PERM/INST.

TE 393 BEGINNING DRIVER EDUCATION (2-1-2). Designed to aid teachers in the instruction of beginning drivers, and in the use of dual controlled automobiles. It includes the functioning of the vehicle, its proper operation, and traffic control safety.

TE 394 ADVANCED DRIVER EDUCATION (2-1-2). Designed to provide advanced preparation in principles and practices of driver and traffic safety education for teachers, supervisors, and administrators.

TE 395 GENERAL SAFETY EDUCATION (3-0-3). Provides a comprehensive survey 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 the school's role in safety relative to other public and private agencies, public and private agencies. TE 407-407G READING IN THE CONTENT SUBJECTS (3-0-3(S)). This course provides middle and secondary teachers with knowledge and skills necessary for maximum utilization of instructional materials in the various content areas. Students seeking graduate credit will be required to meet additional objectives. PREREQ: TE 201.

TE 422 CURRICULUM FOR THE MODERATELY/SEVERELY HANDICAPPED (3-0-3). This course is designed to acquaint students with a systematic approach to conduct assessment and curriculum planning for the moderately/severely handicapped student. Such areas as severe mental retardation, multiple handicaps, and severely emotionally disturbed will be studied in this course. PREREQ: TE 291, 430.

TE 423G TEACHING THE MODERATELY AND SEVERELY HANDICAPPED (3-0-3). This course is designed to assist students in gaining skills necessary for teaching the moderately and severely handicapped. Updated information and skills relative to research in this area will be given high priority. Students will be required to read recent literature and participate in classroom activity. PREREQ: TE 422.

TE 430 DIAGNOSIS OF THE HANDICAPPED (3-0-3(S)). Provides for the development of skills in identification and diagnosis of students referred for evaluation.

TE 431 TEACHING READING AND WRITTEN EXPRESSION TO THE HANDICAPPED (3-0-3(S)). This course will detail the various components for teaching reading and written expression, including the selection and usage of appropriate materials and integrating diagnosis and remedial procedures with mildly handicapped students (learning disabled, emotionally disturbed and mildly/moderately mentally retarded).

TE 432 TEACHING MATH AND LANGUAGE TO THE HANDICAPPED (3-0-3(S)). The course will detail specific sequences and various approaches to math instruction and oral language development, correction procedures, on-going record keeping and remediation for mildly emotional disturbed, learning disabled, and mild-moderate mentally retarded. PREREQ: TE 430 or PERM/INST.

TE 450G BEHAVIOR INTERVENTION TECHNIQUES (3-0-3(S)). This course is designed to help teachers, counselors, and parents to gain an understanding of the principles of behavior and the application of behavioral analysis procedures. The major emphasis will be placed 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)). Curriculum and methods in language arts, mathematics, social studies, and science are investigated. Students develop skills in using media and technology as aids to instruction. The emphasis is on methods and materials appropriate to the developmental stages of young children (K-8). First course in a two semester sequence. PREREQ: M 103, 104.

TE 452 ELEMENTARY CURRICULUM AND METHODS (6-0-6(S)). Curriculum and methods in language arts, mathematics, social studies, and science are investigated. Students develop skills in using media and technology as aids to instruction. The emphasis is on methods and materials appropriate to the developmental stages of young children (K-8). PREREQ: TE 451.
TE 453 TEACHING READING AND LANGUAGE ARTS IN THE BILINGUAL CLASSROOM (2-6-2). Develops an understanding of various approaches to reading instruction. Includes review of research 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.

TE 454 TEACHING CONTENT IN THE BILINGUAL CLASSROOM (3-0-3)(S). This course includes instructional strategies and tech Audio Lingual, Cognitive, Situational Response, Silent Way approaches, etc. Individualized instruction, small group instruction and learning centers are major areas of discussion. PREREQ: TE 221, 322.

TE 456 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE (3-0-3)(F/SU). This course acquaints future teachers with a variety of approaches and methods of teaching ESL, such as the Audio Lingual, Cognitive, Situational Response, Silent Way approaches, etc. Individualized instruction, small group instruction and learning centers are major areas of discussion. PREREQ: S 201, 325.

TE 463C INFANT EDUCATION (3-0-3)(SU). Odd-numbered years. The physical, social, 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 encourage optimum development.

TE 465 CREATING MATERIALS IN EARLY CHILDHOOD EDUCATION (3-0-3)(SU). 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 supervised teaching. PREREQ: Approval of an application for student teaching. Graded pass/fail.

TE 472 ELEMENTARY STUDENT TEACHING (0-20-3)(F). Observation and supervised teaching. PREREQ: Approval of an application for student teaching. Graded pass/fail.

TE 473 ELEMENTARY STUDENT TEACHING IN SPECIAL EDUCATION (0-20-3)(F). Supervised 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. Graded pass/fail.

TE 474 ELEMENTARY STUDENT TEACHING IN THE BILINGUAL CLASSROOM (2-8-2). 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. Graded pass/fail.

TE 475 ELEMENTARY STUDENT TEACHING IN THE BILINGUAL CLASSROOM (0-20-3). 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. Graded pass/fail.

TE 476 STUDENT TEACHING IN CLASSES FOR THE SEVERELY HANDICAPPED (0-20-3)(F). Supervised student teaching in a classroom as well as experience with special conditions unique to the severely handicapped. These may include vocational needs, community services and public agencies serving this population. PREREQ: TE 423, TE 473.

TE 477 ELEMENTARY STUDENT TEACHING—SPECIALITY AREA (0-30-0) 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 those seeking an elementary specialist certificate. Students are assigned in elementary classrooms where they observe and teach under the supervision of a cooperating teacher and a university supervisor. PREREQ: Admission to student teaching.

TE 482 JUNIOR HIGH SCHOOL STUDENT TEACHING: DUAL OPTION (0-15-3)(F). Supervised student teaching in a junior high school. The student will be placed with a cooperating teacher for one half-school term (full-time) in his/her major/minor field under the supervision of University faculty. Seminars are required. PREREQ: Admission to student teaching. COREQ: TE 483. Graded pass/fail.

TE 483 SENIOR HIGH SCHOOL STUDENT TEACHING: DUAL OPTION (0-15-3)(F). Supervised student teaching in a senior high school. The student will be placed with a cooperating teacher for one half-school term (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. Graded pass/fail.

TE 484 JUNIOR HIGH SCHOOL STUDENT TEACHING: SINGLE OPTION (1-20-10)(F). 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. Graded pass/fail.

TE 485 SENIOR HIGH SCHOOL STUDENT TEACHING: SINGLE OPTION (1-20-10)(F). Supervised student teaching in the 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.

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, personal differences, and other sources of conflict in education.

Graduate

TE 501 FOUNDATIONS OF READING INSTRUCTION (3-0-3)(F/SU).

TE 502 DIAGNOSIS AND CORRECTION OF READING PROBLEMS (3-0-3)(F/SU).

TE 503 CLINIC FOR READING SPECIALISTS (3-0-3)(F/SU).

TE 504 SEMINAR IN READING EDUCATION (3-0-3)(F/SU).

TE 505 INDIVIDUAL TEST AND MEASUREMENTS (3-0-3)(SU).

TE 508 DIAGNOSIS AND CORRECTION OF READING PROBLEMS—SECONDARY (3-0-3)(SU)

TE 510 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING SOCIAL SCIENCE (3-0-3).

TE 511 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY MATHEMATICS (3-0-3).

TE 512 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING LANGUAGE ARTS AND LINGUISTICS (3-0-3).

TE 513 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCIENCE (3-0-3).

TE 514 COUNSELING/CONSULTING SKILLS FOR EDUCATORS (3-0-3).

TE 515 ADVANCED THEORY OF INSTRUCTIONAL DESIGN FOR SPECIAL EDUCATORS (3-0-3).

TE 516 TEACHING GIFTED AND TALENTED STUDENTS (3-0-3).

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).

TE 519 CHILDREN'S LITERATURE, ADVANCED LEVEL (3-0-3).

TE 520 VIDEO DELIVERY SYSTEMS (3-0-3)(DEMAND).

TE 522 INDIVIDUALIZATION OF READING INSTRUCTION (3-0-3)(SU).

TE 523 EMOTIONALLY DISTURBED CHILD IN THE CLASSROOM (3-0-3)(F/SU).

TE 531 EDUCATION FOR THE CULTURALLY DIFFERENT LEARNER (3-0-3).

TE 534 ISSUES & TRENDS IN SPECIAL EDUCATION (3-0-3) even years.

TE 536 INTRODUCTION TO INSTRUCTIONAL TECHNOLOGY (3-0-3).

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).

TE 541 EDUCATION IN EMERGING NATIONS (3-0-3).

TE 543 EARLY CHILDHOOD: READINGS (3-0-3).

TE 544 EARLY CHILDHOOD: ADVANCED CHILD DEVELOPMENT (3-0-3).

TE 546 EARLY CHILDHOOD: ENVIRONMENTS AND PROGRAMS (3-0-3).

TE 547 EARLY CHILDHOOD: LANGUAGE ACQUISITION AND DEVELOPMENT (3-0-3).

TE 551 FUNDAMENTALS OF EDUCATIONAL RESEARCH (3-0-3).

TE 555 SUPERVISION OF INSTRUCTIONAL PERSONNEL (3-0-3).

TE 559 PHILOSOPHY OF EDUCATION (3-0-3)(SU).

TE 561 SCHOOL LAW FOR THE CLASSROOM TEACHER (1-0-1). (SU).

TE 562 SCHOOL ORGANIZATION AND FINANCE (1-0-1)(SU).

TE 563 CONFLICTING VALUES INFLUENCING EDUCATION (1-0-1)(SU).

TE 564 INSTRUCTIONAL TECHNIQUES-SECONDARY SCHOOLS (1-0-1)(SU).

TE 565 INTERPRETING EDUCATIONAL RESEARCH (1-0-1)(SU).

TE 566 LEARNING THEORY AND CLASSROOM INSTRUCTION (1-0-1)(SU).

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

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

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

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

TE 576 FUNDAMENTALS OF BILINGUAL EDUCATION/ESL (3-0-3)(DEMAND).

TE 578 PARENTS IN THE EDUCATIONAL PROCESS (1-0-1)(SU).

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 (0-30-0).

TE 593 THESIS (0-30-0).
College of Health Science

Dean: Eldon Edmundson, Ph.D.
Telephone (208) 385-1678

Associate Dean: JoAnn T. Vahey, Ed.D.
Telephone (208) 385-1195

College of Health Science Emeriti:
Kelly, Miles, Rockne

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.

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
Career opportunities for graduates are as follows:

- **Environmental Health**
  - Employment with public health agencies
  - Employment with industries
  - Employment with local planning and zoning agencies
  - Attend graduate school in various science disciplines
  - Attend a professional school in Medicine or other health discipline

- **General Health Science Studies**
  - Employment with public health planning agencies
  - Attend a graduate school in various science disciplines
  - Attend a health professional school in Medicine or other health discipline
  - Attend Medical or Medical Technology school.
  - Employment with pharmaceutical companies.
  - Employment with community clinics and hospitals.

Faculty in the department also advise students who are interested in a health care career but have not yet decided which discipline to enter.

The Department of Community and Environmental Health is affiliated with local, state and federal health agencies throughout the State in order to provide field training.

### Special Information for Students

#### 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

**Advisor:** Ashworth, Elison, Long, Vahey.

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 until they decide on a major. Those students should work closely with their advisor to ensure that proper beginning courses are taken to meet these other degree requirements.

#### 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

ENVIRONMENTAL HEALTH Bachelor of Science Degree

1. General Requirements ........................................... 30
   English Composition E 101-102 .................................. 6
   Electives (AREA I Core) ........................................... 12
   Psychology P 101 .................................................. 3
   Sociology SO 101 .................................................. 3
   Speech CM 111 ..................................................... 3
   AREA II Core Elective ............................................. 3

2. AREA III Core & Science/Mathematics Requirements ........ 57
   College Chemistry C 131-134 .................................... 5
   Organic Chemistry C 317-319 ................................... 5
   Botany-Zoology BT 130, Z 130 .................................. 9
   Cell Biology B 301 ................................................. 9
   Bacteriology B 303 ................................................... 5
   Entomology Z 305 ................................................... 4
   Applied & Environmental Microbiology B 415 ................. 4
   General Physics PH 101-102 ..................................... 6
   Mathematics M 111 or M 204 .................................... 5
   Statistics M 120 .................................................... 4

3. Professional Requirements ........................................ 30
   Environmental Health Practicum EH 160 ...................... 1
   Water Supply and Water Quality Management EH 310 ......... 3
   Air Quality Management EH 380 ................................ 2
   Community Environmental Health Management EH 320 ....... 3
   Public Health Administration EH 330-334 ..................... 2
   Internship EH 493 ................................................... 4
   Occupational Safety & Health EH 415 ......................... 3
   Epidemiology H 480 .............................................. 3
   Technical Writing E 202 ......................................... 3
   Communication in Small Group CM 251 ....................... 3
   OR
   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
   Biocology B 423 ..................................................... 4
   Parasitology B 412 .................................................. 4
   Management & Organizational Theory MG 301 ............... 3
   Physical Geology GO 101 ......................................... 4
   State & Local Government PO 102 ............................... 3
   Statistics M 361 .................................................... 3
   American National Government PO 101 ......................... 3
   Intro Computer in Health Science H 120 ....................... 3
   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 .................................. 9
   OR
   Essentials of Chemistry C 107-110 ................................ 5
   Mathematics M 111 ................................................. 5
   General Zoology & General Botany Z 130 & BT 130 .......... 8-9
   OR
   Human Anatomy & Physiology Z 111-112 ......................... 8

5. Health Science Requirements ................................... 16
   Intro to Computers in Health Science H 120 ................. 2
   Health Delivery Systems H 202 ................................ 2
   Nutrition H 207 ..................................................... 3
   Intro to Health Law and Ethics H 213 .......................... 3
   OR
   Intro to Health Law and Ethics H 213 .......................... 2
   Public Health Law H 435 ........................................... 3
   Epidemiology H 480 .............................................. 3
   Preprofessional Internship H 493 ................................ 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
   Assessment of Alcohol & Drug Prob Part I H 214/414 ....... 3
   Cardiopulmonary Renal Physiology H 220 ..................... 4
   Pathophysiology H 300 .......................................... 4
   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
      Parasitology B 412 .................................................. 3
      Immunology B 420 .................................................. 3
      Quantitative Analysis & Lab C 211-212 ................. 5
      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 205 .................................................. 5
      A First Course in Programming CS 122 .................... 2
      General Physics PH 101-102 .................................. 8
      Biophysics PH 207 .................................................. 4
      Comparative Anatomy Z 301 .................................. 4
      Vertebrate Embryology Z 351 .................................. 4
      Histology Z 400 .................................................... 4
      Or other courses as approved by the advisor ............... 1

   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 .............................................. 5
      Statistics M 205 .................................................. 5
      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 102 ......................... 3
      Public Finance PO 310 or EC 310 ............................ 3
      Principles of Marketing MK 301 ............................... 3
      Personnel Administration MG 305 ............................ 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 325 ................................ 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 ............... 1

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

ENVIRONMENTAL HEALTH

FRESHMAN YEAR

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<td>Physics PH 101-102</td>
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SOPHOMORE YEAR

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<td>Bacteriology B 303</td>
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<td>Applied Environmental Microbiology B 415</td>
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<td>Sociology, Psychology or Communication Elective</td>
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PRE-DIETETICS PROGRAM

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<td>Sociology of the Family SO 340</td>
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Course Offerings

See page 19 for definition of course numbering system

EH ENVIRONMENTAL HEALTH

Lower Division

EH 160 ENVIRONMENTAL HEALTH PRACTICUM (0-V-1)(F/S). 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 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).

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 to employees or residents of the community. PREREQ: Botany, Zoology, Chemistry 131-134, one year Mathematics and Upper Division standing. Odd-numbered years.


EH 493 ENVIRONMENTAL HEALTH INTERNSHIP (0-V-V)(F). 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 (1-4-1)(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)(S). An introductory course which deals with the basic social, medical 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 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). Nursing skills as they pertain to individuals working in a health care setting, to include collection of 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.

H 209 PRINCIPLES OF FOOD PREPARATION (2-4-4)(S). Interrelationships of the nutritive value of foods, principles of food preparation, and the human body. Approved techniques of food preparation to retain nutrients and enhance palatability, food safety sanitary practices, and food management will be stressed. PREREQ: or COREQ: H 207. Odd-numbered years.

H 211-212 DISEASE CONDITIONS I AND II (3-0-3)(F). Introduction to general principles of disease. Etiology, signs, symptoms, treatment and management of diseases that affect individual organs in the various body systems. PREREQ: H 101. Sequence beginning fall semester.

H 213 INTRODUCTION TO HEALTH LAW AND ETHICS (2-0-2)(F). A broad introduction to the basic legal and ethical concepts considered to be essential in the care of clients by health providers. A foundation course for instruction in the specialized application of this content in the students' major health care disciplines.

H 214/414 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART I (3-0-3)(F). Emphasis on issues relating to alcohol/drug dependency and approaches to diagnosis and treatment. Legal, social, and health implications will also be considered.


H 220 CARDIOPULMONARY RENAL PHYSIOLOGY (4-0-4)(F). Normal and clinical physiological functions of the pulmonary, circulatory and renal systems. PREREQ: Z 111-112.

**Upper Division**

H 300 PATHOPHYSIOLOGY (4-0-4)(F). Emphasis on dynamic aspects of human disease. Disruption of normal physiology and alterations, derangements, and mechanisms involved. PREREQ: C 107-108 or equivalent and Z 111-112 or equivalent.

H 340 PUBLIC HEALTH ADMINISTRATION (3-0-3). Functions of local, state, and federal health agencies, and factors which have an impact on agency programs. PREREQ: Upper division standing and health science major or PERM/INST. Even-numbered years.

H 306 APPLIED PHARMACOTHERAPEUTICS (3-0-3). Emphasis on use of drugs in relation to health and illness in any setting, on legal aspects, and on patient education. Students will be expected to use prerequisite information in pathophysiology to study drugs and their inter-system relationships. PREREQ: H 300; 6-8 credits each Chemistry and Human Anatomy and Physiology; clinical background as a health student or professional.

H 410 HEALTH AND AGING (3-0-3)(F). Course will focus on major health problems and issues of the elderly. It will include discussion of: 1) the continuity of care for the older person; 2) the organizations and personnel providing care; and 3) the agencies involved with licensure, certification, or other types of regulations for care providers. The course will include some discussion of non-traditional health centers for the older person, e.g., worksite, community social organizations, and senior centers. PREREQ: SO 325, PS 313, B 100 or PERM/INST.

**Department of Medical Record Science**

**Degrees Offered**

- AS in Medical Record Technology

**Departmental 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 and record retention systems. 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. Make an appointment for an interview during Spring Semester of the first year.
2. Complete and return the Medical Record Science Department "Special Programs Application" on or before March 1 of the year the student is in Introduction to Medical Records (MR 115).
3. Submit $15.00 for name pin and lab fee, per academic year, payable to the program by September 1 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**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>E 101-102</td>
<td>English Composition</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Z 111-112</td>
<td>Human Anatomy &amp; Physiology</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>H 100</td>
<td>Introduction to Allied Health</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>H 101</td>
<td>Area III Core Elective</td>
<td>3</td>
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<tr>
<td>H 115</td>
<td>Medical Terminology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MR 115</td>
<td>Introduction to Medical Records</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>H 120</td>
<td>Area II Core Elective</td>
<td>3</td>
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</tr>
<tr>
<td>H 120</td>
<td>Computers in Health Care</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>H 201-202</td>
<td>Medical Records</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>MR 207</td>
<td>Diagnostic and Operative Coding</td>
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**SOPHOMORE YEAR**

<table>
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<th>2nd SEM</th>
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</thead>
<tbody>
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</tbody>
</table>
are eligible to write the examination for licensure as a registered nurse.

The Department offers an upper division, professional nursing program leading to a Bachelor of Science degree with a major in Nursing which is approved by the State Board of Nursing and is accredited by the National League for Nursing. Prior to Fall, 1987 admission to the professional nursing curriculum was limited to registered nurses. After careful curriculum review, however, during 1985 and 1986, the curriculum was revised to admit students who are not registered nurses as well as to continue to provide an opportunity for registered nurses to pursue a professional degree. The proposal for curriculum change was approved by the State Board of Nursing and the State Board of Education during Spring, 1987.

Description of the Associate Degree Program is presented in the following section. The Baccalaureate Degree Program is presented on page 133.

Course Offerings

See page 19 for definition of course numbering system

**MR MEDICAL RECORDS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Division</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MR 115 INTRODUCTION TO MEDICAL RECORDS</td>
<td>Lower Division</td>
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<tr>
<td>MR 201 MEDICAL RECORDS I (3-0-3)(F)</td>
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<tr>
<td>MR 202 MEDICAL RECORDS I LABORATORY (0-4-2)(F)</td>
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<td>MR 203 MEDICAL RECORDS II (3-o-3)(S)</td>
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<tr>
<td>MR 204 MEDICAL RECORDS II LABORATORY (0-4-2)(S)</td>
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<tr>
<td>MR 205 HEALTH DATA (3-o-3)(S)</td>
<td></td>
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<tr>
<td>MR 207 DIAGNOSTIC AND OPERATIVE CODING (3-0-3)(F)</td>
<td></td>
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<tr>
<td>MR 209 HEALTH RECORD TRANSCRIPTION (0-4-2)(S)</td>
<td></td>
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<tr>
<td>MR 215 MEDICAL RECORDS I (3-o-3)(F)</td>
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</table>

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</table>

**Associate of Science Degree**

**Associate Degree Nursing Associate Degree Nursing, Associate 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.).

**Admission Criteria for Applicants:** The faculty of the Associate of Science in Nursing Program reviews the qualifications of all applicants. The number of students that can be admitted is limited. All high school or college transcripts, and ACT or SAT test scores must be submitted to the nursing office prior to April 1 of the year of application to the nursing program.

1. Applicants who have completed less than 6 semester credit hours of college 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 for admission to the nursing program, 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.

All applicants will be considered despite ACT or SAT scores; however, higher ranking will be given to applicants who have an ACT of 18 or above or an SAT total score of 830 or above.

2. Applicants who have earned more than 6 semester credit hours of college must have a GPA of 2.50.

3. Transfer students from other associate degree nursing programs and Licensed Practical Nurses (LPN's) should contact the department for additional entrance requirements.

**Advisement:** Contact the Department of Nursing for advisement.

**Degree Requirements**

**Associate of Science Full-Time Nursing Student**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st SEM</th>
<th>2nd SEM</th>
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<tbody>
<tr>
<td>Essentials of Chemistry C 107-108</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Nutrition H 207</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Human Anatomy &amp; Physiology Z 111-112</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
<td>4</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>3</td>
<td>4</td>
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<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

**Department of Nursing**

**Science/Nursing Bldg., Rm. 107**

**Acting Chairman and Professor:** Dr. JoAnn T. Valhey; Associate Degree

**Faculty:** Associate Professors: Fountain, Job, Matson, Wilcox; Assistant Professors: Bledsoe, Chase, Leahy, Nelson, Otterness, Peterson; Baccalaureate Degree Faculty: Associate Professors: Lynch, Penner, Taylor; Assistant Professors: Brudell, Butterfield, Carpenter, Everitt, Smith, Straub, Weinberg.

**Degrees Offered**

- AS, Nursing
- BS, Nursing

**Departmental 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 Degree program prepares graduates for technical nursing practice. Graduates are eligible to write the examination for licensure as a registered nurse.
SECOND YEAR

Microbiology B 205 ........................................ 4
English Composition E 102 .................................. 3
Introduction to Sociology SO 101 .......................... 3
Elective .......................................................... 3
Nursing Intervention I & II NA 200-202 ................. 9 10

*Prerequisite or Corequisite to First Year Nursing Courses.

Course Offerings

See page 19 for definition of course numbering system

NA NURSING COURSES

Lower Division

NA 100 FUNDAMENTALS OF NURSING I (3-9-6)(F). First of four sequential courses. Focuses on man’s growth and development level, well-being, environmental interaction and ability to cope with stress. Learning experiences increase student knowledge of self and others. Nursing process and psychomotor skills are introduced to assist individuals of all ages to cope with change and to progress toward wellness. PREREQ: Admission to the AS program.

NA 102 FUNDAMENTALS OF NURSING II (3-12-7)(S). Builds upon concepts presented in NA 100. Focuses on concepts and methods to assist individuals and families adapt to stressors of illness and surgery. Learning experiences assist student implement nursing process and further develop psychomotor skills to help individuals of all ages progress toward wellness. PREREQ: NA 100.

NA 114 ORIENTATION TO ASSOCIATE DEGREE NURSING FOR ADVANCED PLACEMENT STUDENT (2-4-2)(S). Designed to assist the student in transition from one role in nursing to another. Content focuses upon basic nursing concepts, changing nursing roles and issues, and challenge examinations for advanced placement.

NA 200 NURSING INTERVENTION I (4-15-9)(F). Develops concepts presented in first year courses. Focuses on coping with changes in biopsychosocial health status of individuals and families from pre-natal through late adulthood. Learning experiences utilize the nursing process to provide care for patients with complex health problems. PREREQ: NA 100. COREQ: B 205.

NA 202 NURSING INTERVENTION II (4-18-10)(S). Continues development of concepts acquired in previous courses. Focuses on development of self directed, flexible and organized use of nursing process in providing care for individuals of all ages. Learning experiences emphasize patient education, psychodynamics and management of multiple patients with complex problems. PREREQ: NA 200 and B 205.

Bachelor of Science Degree

Description: This program admits generic and R.N. students and is designed to prepare professional nurses to provide nursing care for patients/clients in hospitals, nursing homes, and a variety of community health settings. The curriculum also provides a foundation for graduate study in nursing. Graduates are eligible to write the examination for licensure as a Registered Nurse.

Admission Requirements

1. Complete University admission requirements.
2. For admission to nursing courses, applicants must:
   a. Complete the following prerequisite courses or equivalent with a grade of “C” or better:
      - College Chemistry C 107-110 or C 131-134
      - General Psychology P 101 (AREA II Core)
      - Mathematics M 108 or above
      - English Composition E 101-102
      - Human Anatomy and Physiology Z 111-112
   b. Have a minimum 2.50 cumulative grade point average.
3. For advanced placement for Registered Nurses, applicants must complete the following additional courses or examinations with a grade of “C” or better.
   - Microbiology 3-4 credits
   - Nutrition 2-3 credits
   - Nursing Placement Examinations

Applicants are to contact the Department of Nursing for academic advisement and detailed information on application procedure.

Degree Requirements

Bachelor of Science

Full-Time Nursing Student

<table>
<thead>
<tr>
<th>Year</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
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<tr>
<td>SEM</td>
<td>SEM</td>
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<tr>
<td>FIRST YEAR</td>
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</tr>
<tr>
<td>College Chemistry C 107-110-131-134 (AREA III CORE)</td>
<td>4 5</td>
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<tr>
<td>Elective (AREA I CORE)</td>
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<tr>
<td>General Psychology P 101 (AREA II CORE)</td>
<td>3</td>
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<tr>
<td>Mathematics M 111 or above (AREA III CORE)</td>
<td>4-5</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>Mathematics M 108 (Do not meet AREA III CORE)</td>
<td>3</td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>4</td>
</tr>
<tr>
<td>Human Anatomy &amp; Physiology Z 111-112 (AREA III CORE)</td>
<td>4</td>
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</tbody>
</table>

| 2nd  |         |
| 17 16-17 |
| SECOND YEAR |          |
| Microbiology B 205 | 4 |
| Pathophysiology H 300 | 4 |
| Applied Pharmacotherapeutics H 306 | 3 |
| Nutrition H 207 | 3 |
| Elective (AREA I CORE) | 3 |
| Elective (AREA II CORE) | 3 |
| Intro Computers in Health H 120 or TE 208, CS 109 | 2-4 |
| Introduction to Nursing Process NU 204 | 2 |
| Foundations of Nursing NU 206 | 3 |
| Foundations of Nursing Lab NU 207 | 3 |
| 15-17 15 |
| THIRD YEAR |          |
| Elective (AREA II CORE) | 3 |
| Statistical Methods P 305 | 3 |
| Introduction to Sociology SO 101 (AREA II CORE) | 3 |
| Introduction to Nursing Research NB 392 | 3 |
| Elective (AREA I CORE) | 3 |
| Concepts of Nursing I NU 304 | 4 |
| Concepts of Nursing I Lab NU 315 | 3 |
| Concepts of Nursing II NU 318 | 4 |
| Concepts of Nursing II Lab NU 319 | 3 |
| 16 16 |
| FOURTH YEAR |          |
| Community Health Nursing NU 412 | 5 |
| Community Health Nursing Lab NU 413 | 5 |
| Psychosocial Nursing NU 416 | 2 |
| Psychosocial Nursing Lab NU 417 | 1 |
| Legal/Ethical Issues & Trends NU 434 | 3 |
| Nursing Elective | 3 |
| Nursing Leadership NU 436 | 5 |
| Nursing Leadership Lab NU 437 | 5 |
| 16 16 |
| Total Credit Hours: | 129 |

*Beginning Fall, 1989 Registered Nurses who wish to enroll in the Bachelor of Science Nursing Program will complete degree requirements as outlined above. Registered Nurses currently enrolled in the Bachelor of Science Nursing Program will complete course requirements listed on p. 135 and must be completed by Spring, 1990. Contact the Department of Nursing for academic advisement.

Course Offerings

See page 19 for definition of course numbering system

NU NURSING COURSES

Lower Division

NU 204 INTRODUCTION TO NURSING PROCESS (2-0-2)(F). Focus is on the nursing process as a cognitive framework for professional practice; nursing diagnosis is utilized as a client classification system. PREREQ: Admission to Nursing major.

NU 206 FOUNDATIONS OF NURSING (3-0-3)(S). Theoretical basis for the acquisition of interpersonal, affective, and psychomotor skills needed to maintain, promote, restore health to persons of all ages. This includes collection and interpretation of data through use of physical assessment skills. PREREQ: NU 204. COREQ: NU 207.

NU 207 FOUNDATIONS OF NURSING LAB (0-9-3)(S). Practical application of interpersonal, affective, and psychomotor skills learned in NU 206. This includes physical assessment. COREQ: NU 206.
**Upper Division**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st SEM</th>
<th>2nd SEM</th>
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<tbody>
<tr>
<td>NU 314 CONCEPTS OF NURSING I (4-0-4)(F)</td>
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<td></td>
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<tr>
<td>NU 315 CONCEPTS OF NURSING I LAB (0-9-3)(F)</td>
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<tr>
<td>NU 318 CONCEPTS OF NURSING II (4-0-4)(F)</td>
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<tr>
<td>NU 319 CONCEPTS OF NURSING II LAB (0-9-3)(F)</td>
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<tr>
<td>NU 412 COMMUNITY HEALTH NURSING (3-0-3)(F)</td>
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<tr>
<td>NU 413 COMMUNITY HEALTH NURSING LAB (0-15-5)(F)</td>
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<tr>
<td>NU 416 PSYCHOSOCIAL NURSING (2-0-2)(F)</td>
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<tr>
<td>NU 417 PSYCHOSOCIAL NURSING LAB (0-3-1)(F)</td>
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<td>NU 437 NURSING LEADERSHIP LAB (0-15-5)(F)</td>
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<tr>
<td>NU 438 LEGAL/ETHICAL ISSUES AND TRENDS (3-0-3)(S)</td>
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<tr>
<td>NU 440 NURSING STRATEGIES IN HIGH RISK CHILD-BEARING FAMILIES (3-0-3)(FS)</td>
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<tr>
<td>NU 441 FAMILY NURSING (2-0-2)(S)</td>
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<td>NU 442 COMMUNITY HEALTH NURSING (3-0-3)(F)</td>
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<td>NU 446 NURSING LEADERSHIP (3-0-5)(S)</td>
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<td>NU 456 NURSING STRATEGIES IN HIGH RISK CHILD-BEARING FAMILIES (3-0-3)(FS)</td>
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<tr>
<td>NU 472 NURSING CARE OF THE ADULT IN THE WORKPLACE (3-0-3)(S)</td>
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<td>NU 473 NURSING CARE OF THE ADULT IN THE WORKPLACE LAB (0-15-5)(F)</td>
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<td>NU 476 NURSING LEADERSHIP (3-0-5)(S)</td>
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<td>NU 477 NURSING LEADERSHIP LAB (0-15-5)(F)</td>
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<tr>
<td>NU 478 NURSING AND POLITICS (3-0-3)(FS)</td>
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<tr>
<td>Registered nurses enrolled in the Baccalaureate Nursing Degree program prior to Fall, 1989 will follow the curriculum sequence presented below and must meet all degree requirements by Spring, 1991. Contact the Department of Nursing for academic advising.</td>
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</tbody>
</table>

**Course Offerings See page 19 for definition of course numbering system**

**NURSING COURSES Upper Division**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st SEM</th>
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<tbody>
<tr>
<td>NU 314 CONCEPTS OF NURSING I (4-0-4)(F)</td>
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<td>NU 315 CONCEPTS OF NURSING I LAB (0-9-3)(F)</td>
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<td>NU 318 CONCEPTS OF NURSING II (4-0-4)(F)</td>
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<td>NU 319 CONCEPTS OF NURSING II LAB (0-9-3)(F)</td>
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<td>NU 412 COMMUNITY HEALTH NURSING (3-0-3)(F)</td>
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<tr>
<td>NU 413 COMMUNITY HEALTH NURSING LAB (0-15-5)(F)</td>
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<td>NU 416 PSYCHOSOCIAL NURSING (2-0-2)(F)</td>
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<td>NU 417 PSYCHOSOCIAL NURSING LAB (0-3-1)(F)</td>
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<tr>
<td>NU 437 NURSING LEADERSHIP LAB (0-15-5)(F)</td>
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<tr>
<td>NU 438 LEGAL/ETHICAL ISSUES AND TRENDS (3-0-3)(S)</td>
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<td>NU 441 FAMILY NURSING (2-0-2)(S)</td>
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<td>NU 472 NURSING CARE OF THE ADULT IN THE WORKPLACE (3-0-3)(S)</td>
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<td>NU 473 NURSING CARE OF THE ADULT IN THE WORKPLACE LAB (0-15-5)(F)</td>
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<td>NU 478 NURSING AND POLITICS (3-0-3)(FS)</td>
<td>2</td>
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</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st SEM</th>
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</thead>
<tbody>
<tr>
<td>Professional Nursing I NB 302</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Nursing Leadership NB 308</td>
<td>2</td>
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</tr>
<tr>
<td>Practicum: Nursing Leadership NB 309</td>
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<td></td>
</tr>
<tr>
<td>Health Assessment NB 360</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Practicum: Health Assessment NB 361</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Pathophysiology H 300</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Family Nursing NB 364</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Family Nursing NB 365</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Nursing Roles in Promoting Group Health NB 322</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**PRACTICUM: NURSING ROLES IN PROMOTING GROUP HEALTH (2-0-2)(S) , Practicum for NB 322. COREQ: NB 322.**

**CRITICAL CARE NURSING (2-0-2)(S) , Practicum for NB 322. COREQ: NB 322.**

**PSYCHOSOCIAL—MENTAL HEALTH NURSING (2-0-2)(S) , Practicum for NB 322. COREQ: NB 322.**

NB 430 CRITICAL CARE NURSING (2-0-2F). 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, NB 431.

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

NB 432 CHRONIC AND REHABILITATIVE NURSING (2-0-2S). 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 environment and observe at first hand the practice and delivery of health care. Students have opportunities and are encouraged to work in a clinical environment and observe at first hand the practice and delivery of health care. Students have opportunities and are encouraged to work in a clinical environment.

Department of Preprofessional Studies

Health Sciences Building, Room 101 Telephone (208) 385-1787 or 385-1678

Dean and Professor: Eldon Edmundson, Ph.D. General Preprofessional Studies Advisor: Charles Robertson, M.D.

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-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. 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 3.35; 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;
• University of Idaho for medical school;
• University of Washington for medical school;
• University of Oregon for medical school;
• University of Washington for dental school;
• WOIC (Washington-Oregon-Idaho) for dental 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 213 Telephone (208) 385-3499
Advisor: Dr. Charles W. Baker

PRE-MEDICINE, BIOLOGY OPTION
Bachelor of Science

Science-Nursing Building, Room 210 Telephone (208) 385-3520
Advisor: Dr. H. K. Fritchman

Requirements

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

Total must be at least 128

Suggested Program

FRESHMAN YEAR

Program I SEM SEM
English Composition E 101-102 3 3
General Physics PH 101-102 4 4
Chemistry C 131-134 5 5
Mathematics M 111-204 3 3
Area I Core Courses 3 3
Area II Core Courses 5 16
Area III Core Courses 3 3
Area IV Core Courses 15 17-19

Sophomore Year

Program I SEM SEM
Botany BT 130 4
Zoology Z 130 5
Organic Chemistry C 317-320 5-5
General Psychology P 101 3
Comparative Anatomy Z 301 3
Electives (H 202 recommended)*** 3 3-6

Junior Year

Program I SEM SEM
Comparative Anatomy Z 301 4
General Physiology PH 101-102 4 4
Vertebrate Embryology Z 400 4
Vertebrate Histology Z 401-409 4
Biochemistry C 431-432 3 3
Area I Core Courses 3 3
Area II Core Courses 3 3
Area III Core Courses 3 3
Electives 14-15 17

Senior Year

Program I SEM SEM
General Bacteriology B 303 5
Vertebrate Embryology Z 400 4
Vertebrate Histology Z 401 or 409 4
Biochemistry C 431-432 3 3
Area I Core Courses 3 3
Area II Core Courses 3 3
Electives 18 17

**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.
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 breath 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.

Students are to acquire and record at least 300 hours of significant exposure to veterinary medicine while employed by or working on a volunteer basis for a graduate veterinarian. The 300 hours must be completed by November 1 of the year of application.

**Bachelor of Science in Medical Technology**

Advisors: Dr. Conrad Colby (208) 385-3383
Dr. Robert Ellis
Dr. Eugene Fuller

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 prescribed by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association. The professional schools at St. Alphonsus and St. Luke's Regional Medical Centers require such a degree. The Bachelor of Science degree in Health Science Studies (see Department of Community and Environmental Health) satisfies this requirement.

Professional schools which do not require a Bachelor's degree as a criterion for admission will consider students who have completed at least 96 credits of basic sciences and general education courses prescribed by CAHEA. These courses are listed below.

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>6</td>
</tr>
<tr>
<td>Area I Core Elective</td>
<td>12</td>
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<td>Area II Core Elective</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics M 111</td>
<td>5</td>
</tr>
<tr>
<td>College Chemistry &amp; Laboratory C 131-134</td>
<td>9</td>
</tr>
<tr>
<td>Organic Chemistry &amp; Laboratory C 317-319</td>
<td>9</td>
</tr>
<tr>
<td>*Biochemistry &amp; Laboratory C 431-432</td>
<td>4</td>
</tr>
<tr>
<td>General Zoology Z 130</td>
<td>5</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
</tr>
<tr>
<td>Bacteriology B 303</td>
<td>3</td>
</tr>
<tr>
<td>Pathogenic Bacteriology B 310</td>
<td>3</td>
</tr>
<tr>
<td>Immunology B 420</td>
<td>3</td>
</tr>
<tr>
<td>General Botany BT 130</td>
<td>4</td>
</tr>
<tr>
<td>Human Physiology Z 401</td>
<td>4</td>
</tr>
<tr>
<td>Health Delivery Systems H 202</td>
<td>3</td>
</tr>
<tr>
<td>Health Science Electives</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
</tbody>
</table>

*Two semesters of Biochemistry C 431-432 (7 credits) are recommended.

**Medical Technology Clinical Class and Practice (MT 487-8-9)** is comprised of a 12-month course of study of the following subject, taught as part of the hospital program:

- **Hematology**
  - Introduction to Allied Health H 100
- **Clinical Bacteriology**
  - Clinical Bacteriology
- **Clinical Parasitology**
  - Clinical Parasitology
- **Urinalysis**
  - Urinalysis
- **Clinical Chemistry**
  - Clinical Chemistry
- **Immunohematology**
  - Immunohematology
- **Serochemistry**
  - Serochemistry
- **Toxicology**
  - Toxicology
- **Clinical Mycology**
  - Clinical Mycology
- **Clinical Correlations Seminar**

**Suggested Program**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>6</td>
</tr>
<tr>
<td>Area I Core Elective</td>
<td>12</td>
</tr>
<tr>
<td>Area II Core Elective</td>
<td>12</td>
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<tr>
<td>Mathematics M 111</td>
<td>5</td>
</tr>
<tr>
<td>College Chemistry &amp; Laboratory C 131-134</td>
<td>9</td>
</tr>
<tr>
<td>Organic Chemistry &amp; Laboratory C 317-319</td>
<td>9</td>
</tr>
<tr>
<td>*Biochemistry &amp; Laboratory C 431-432</td>
<td>4</td>
</tr>
<tr>
<td>General Zoology Z 130</td>
<td>5</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
</tr>
<tr>
<td>Bacteriology B 303</td>
<td>3</td>
</tr>
<tr>
<td>Pathogenic Bacteriology B 310</td>
<td>3</td>
</tr>
<tr>
<td>Immunology B 420</td>
<td>3</td>
</tr>
<tr>
<td>General Botany BT 130</td>
<td>4</td>
</tr>
<tr>
<td>Human Physiology Z 401</td>
<td>4</td>
</tr>
<tr>
<td>Health Delivery Systems H 202</td>
<td>3</td>
</tr>
<tr>
<td>Health Science Electives</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
</tbody>
</table>

*Two semesters of Biochemistry C 431-432 (7 credits) are recommended.

**Junior Year**

- General Bacteriology B 303                                           5
- Pathogenic Bacteriology B 310                                        4
- Immunology B 420                                                      3
- Biochemistry C 431                                                    3
- Biochemistry Laboratory C 432                                        3
- Electives Area I or II Core                                          3
- Health Delivery Systems H 202                                        3
- Human Physiology Z 401                                               4
- Free Electives                                                        3
- 17 15

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

**Course Offerings**

See page 19 for definition of course numbering system

**MT MEDICAL TECHNOLOGY**

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

**MT 487 CLINICAL CLASS AND PRACTICE (76 hours per semester—324 hours per year—8 CR(SU) (second semester). Clinical instruction in a hospital school approved and accredited by CAHEA.**

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

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

**Non-Degree Programs**

**PRE-DENTAL HYGIENE**

Student Health Center, Room 117

Advisor: Rex E. Profit

A career in Dental Hygiene requires 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 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>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>6</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology Z 111-112</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry C 107, 109</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry C 108, 110</td>
<td>8</td>
</tr>
<tr>
<td>Microbiology B 205</td>
<td>8</td>
</tr>
<tr>
<td>Health Delivery Systems H 202</td>
<td>8</td>
</tr>
<tr>
<td>Health Science Electives</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td>8</td>
</tr>
</tbody>
</table>

**Freshman Year**

- Nutrition H 207                              3
- Speech CM 111                                3
- Sociology SO 101                             3
- Psychology P 101                             3
- Microbiology B 205                          4
- Area I Core                                  4
- Area II Core                                 4
- 17 17

**Sophomore Year**

- Technical Writing E 202                      3
- Area II Core                                 3
- 17 17

**Pre-Occupational Therapy**

Human Performance Center

Advisor: Dr. Conrad Colby

Occupational Therapy schools differ considerably in their preprofessional requirements. A minimum of two preprofessional years is
College of Health Science

required, and more in the case of some schools. A student interested in this career is advised to consult the advisor, determine which of the several schools would be the student's choice, and pattern the preprofessional curriculum in line with the requirements of the desired schools.

PRE-OPTOMETRY

Human Performance Center

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

General Zoology Z 130 .................................. 1 or 2 semesters
College Chemistry C 131-134 .......................... 2 semesters
General Physics PH 101-102 ............................ 2 semesters
English E 101-102 ....................................... 2 semesters
College Mathematics ................................ 2 semesters

Additional courses that may be needed for the pre-Optometric program are:

<table>
<thead>
<tr>
<th>Psychology</th>
<th>Comparative Anatomy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science</td>
<td>Physiology</td>
</tr>
<tr>
<td>Philosophy</td>
<td>Statistics</td>
</tr>
<tr>
<td>Literature</td>
<td>Algebra and Trigonometry</td>
</tr>
<tr>
<td>Organic Chemistry</td>
<td>Analytic Geometry</td>
</tr>
<tr>
<td>Microbiology</td>
<td>Differential Calculus</td>
</tr>
<tr>
<td>Bacteriology</td>
<td>Integral Calculus</td>
</tr>
</tbody>
</table>

PRE-PHARMACY

Science-Nursing Building, Room 313 Telephone (208) 385-3477
Advisor: Dr. Robert A. Hibbs

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

Human Performance Center Telephone (208) 385-3383
Advisor: Dr. Conrad Colby

Junior and Senior Students

Student Health Center, Room 118 Telephone (208) 385-3281
Advisor: Dr. Gary Craychee

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>FRESHMAN YEAR</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3 3</td>
<td></td>
</tr>
<tr>
<td>Anatomy and Physiology Z 111-112</td>
<td>4 4</td>
<td></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 3</td>
<td></td>
</tr>
<tr>
<td>College Chemistry Lab C 132, 134</td>
<td>1 2</td>
<td></td>
</tr>
<tr>
<td>Electives (Area I, III)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>18</td>
<td></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

HHEALTH SCIENCES

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

Department of Radiologic Sciences

Student Health Building Telephone (208) 385-1996
Chairman and Associate Professor: Rex E. Profit; Associate Professor: Craychee, Kraker; Assistant Professors: McCrorie, Munk

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 diagnostic films. Most technologists work in radiology departments of hospitals or with physicians who maintain private practices.

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 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 on for a Baccalaureate degree.

Admission Requirements

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 performance of hospital activities.

**Application Process**

1. **Freshman Year**
   a. See University Requirements.

2. **Sophomore Year**
   a. Qualified applicants must fill out and return to the Radiologic Sciences Department office a "Special Programs Application" on or before March 1 of the year in which they plan to attend the sophomore year.
   b. Qualified applicants are required to have an interview during the spring semester of the freshman year. Contact the department chairman 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 PPD plus a documented Rubella immunity report to the department by December 1 of the Sophomore year.
2. Submit $56.00 as prepayment for student name pin, clinical malpractice insurance, radiation monitoring badges and markers. This nonrefundable 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.
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**

**Radiologic Technology Program**

<table>
<thead>
<tr>
<th>Program</th>
<th>FALL</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td></td>
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<tr>
<td>English Composition E 101-102</td>
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<td>Human Anatomy &amp; Physiology &amp; Lab Z 111-112</td>
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<td>Medical Terminology H 101</td>
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<td>Essentials of Chemistry &amp; Lab C 107-108</td>
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<td>Intro to Allied Health H 100</td>
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<tr>
<td>Mathematics M 108</td>
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<td>General Psychology P 101</td>
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<td>Intro to Computers in Health Science H 120</td>
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<tr>
<td>Nursing Skills for Health Care Personnel H 206</td>
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<tr>
<td>Radiographic Positioning I RD 222</td>
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<tr>
<td>Radiographic Techniques and Control RD 226</td>
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<tr>
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<tr>
<td>Radiological Physics PH 106</td>
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<tr>
<td>Intro to Radiography Clinical Experience RD 234</td>
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<tr>
<td>Laboratory Practicum RD 211-221</td>
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<td>Radiation Biology-Protection RD 230</td>
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<td>Radiographic Positioning II RD 242</td>
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<tr>
<td>Clinical Experience RD 285</td>
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<td>Area II CORE Elective</td>
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<td><strong>SUMMER</strong></td>
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<td>Clinical Experience RD 375</td>
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<td><strong>JUNIOR YEAR</strong></td>
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<tr>
<td>Radiographic Positioning III RD 316</td>
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</tbody>
</table>

**Course Offerings**

See page 19 for definition of course numbering system

**RD RADIOLOGIC TECHNOLOGY**

**Lower Division**

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD 211 LABORATORY PRACTICUM (0-3-1)(F), Laboratory demonstration and practice of the radiographic techniques and procedures discussed in RD 222. COREQ: RD 222.</td>
<td></td>
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</tr>
<tr>
<td>RD 222 LABORATORY PRACTICUM (0-3-1)(S). Laboratory demonstration and practice of the radiographic techniques and procedures discussed in RD 242. COREQ: RD 242.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RD 222 RADIOGRAPHIC POSITIONING (4-0-4)(F). The basic concepts and procedures used in obtaining diagnostic radiographs of the upper and lower extremities, chest and abdomen. COREQ: RD 221.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RD 227 RADIOGRAPHIC TECHNIQUE AND CONTROL LABORATORY (0-2-1)(F). A laboratory experience where students apply the principles of x-ray machine operation and practical application of all image materials. COREQ: RD 226.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RD 230 RADIATION BIOLOGY-PROTECTION (2-4-2)(F). General survey of radiation hazards and the potential consequences to both technologist and patient. The most appropriate means of minimizing the radiation dose will be emphasized. PREREQ: RD major or PERMINST.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RD 234 INTRODUCTION TO RADIOGRAPHY CLINICAL EXPERIENCE (2-4-2)(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 PERMINST.</td>
<td></td>
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</tr>
<tr>
<td>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 spine. PREREQ: RD 222. COREQ: RD 221.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RD 285 RADIOLOGIC TECHNOLOGY CLINICAL PRACTICUM (0-240-4)(S). Supervised clinical hospital experience. The student must complete 72 minimum of recently taught radiographic exams and a minimum 32 hours in darkroom and office procedures. PREREQ: RD 234.</td>
<td></td>
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</tr>
</tbody>
</table>
The Respiratory Therapy Program has been granted accreditation by the Committee on Allied Health Education and Accreditation of the American Medical Association.

DEPARTMENT ADMISSION REQUIREMENTS AND APPLICATION PROCEDURES

Respiratory Therapy Program

Requirements for Admission

1. Preprofessional Year
   a. See University Admission Policy.

2. Professional Program
   a. Only students who have completed or are the 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 plus 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 $16.50 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, Physical Science, and Respiratory Therapy course.
   b. A grade of less than a “C” in any professional theory (numbered H, RT) or clinical unit 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>Degree Area</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English E</td>
<td>101-102</td>
<td>3</td>
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<tr>
<td>Human Anatomy &amp; Physiology Z</td>
<td>111-112</td>
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<tr>
<td>Essentials of Chemistry &amp; Lab C</td>
<td>107-108</td>
<td>- 4</td>
</tr>
<tr>
<td>Intermediate Algebra M</td>
<td>108</td>
<td>4</td>
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<tr>
<td>Medical Terminology H</td>
<td>101</td>
<td>- 3</td>
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<tr>
<td>Elective (AREA I)</td>
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<td>Elective (AREA II)</td>
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<td>Elective</td>
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</table>

Department of Respiratory Therapy

2268 University Drive

Chairman and Professor: Conrad Colby; Director of Clinical Education and Instructor: 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

Departmental Statement

Respiratory Therapy is an allied health specialty which is 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. If accepted, the student may continue on to the Baccalaureate degree.
## Professional Curriculum

### FIRST PROFESSIONAL (SOPHOMORE) YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>1st SEM</th>
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<tbody>
<tr>
<td>Respiratory Therapy Theory I RT 203</td>
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<tr>
<td>Respiratory Therapy Theory II RT 223</td>
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<td>2</td>
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<tr>
<td>Respiratory Therapy Lab I RT 204</td>
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<tr>
<td>Respiratory Therapy Lab II RT 224</td>
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<tr>
<td>Clinical Practicum I RT 208</td>
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<tr>
<td>Clinical Practicum II RT 228</td>
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<tr>
<td>Cardiopulmonary Renal Physiology H 220</td>
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<tr>
<td>Nursing Skills for Health Care Personnel H 207</td>
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<tr>
<td>General Pathology RT 209</td>
<td>3</td>
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<tr>
<td>Emergency Procedures in Resp Care RT 213</td>
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<td>AREA I, II Core Electives</td>
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<tr>
<td>Pulmonary Function Lecture RT 225</td>
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<tr>
<td>Pulmonary Function Laboratory RT 226</td>
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<td>Pulmonary Medicine I RT 227</td>
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<tr>
<td>Foundations of Physical Science PS 100</td>
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<td>Microbiology B 205</td>
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**Summer**

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### SECOND PROFESSIONAL (JUNIOR) YEAR

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<tr>
<td>Respiratory Therapy Theory III RT 303</td>
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<td>Respiratory Therapy Theory IV RT 323</td>
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<td>Respiratory Therapy Lab III RT 304</td>
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<td>Respiratory Therapy Lab IV RT 324</td>
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<td>Clinical Practicum III RT 308</td>
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<td>Clinical Practicum IV RT 328</td>
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<tr>
<td>Radiologic Studies of Resp System RT 305</td>
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<td>Pulmonary Medicine II RT 327</td>
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<tr>
<td>Respiratory Cardiology RT 307</td>
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<tr>
<td>Professional Seminar RT 398</td>
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<tr>
<td>Principles of Pharmacotherapeutics RT 301</td>
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<tr>
<td>Baccalaureate Degree Curriculum: Prerequisite for Admission:</td>
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<tr>
<td>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.</td>
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### SENIOR YEAR: Management Option

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<td>Organizational behavior MG 401</td>
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<tr>
<td>Intro Information Sciences IS 210 OR</td>
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<td>Intro Financial Accounting AC 205</td>
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<td>Electives (AREA I or II)</td>
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<td>Core Electives AREA I OR II</td>
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<tr>
<td>Respiratory Therapy Colloquium RT 401</td>
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<td>AREA I, II Core Electives</td>
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### SENIOR YEAR: Education Option

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<tr>
<td>Found of Education TE 201</td>
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<tr>
<td>Statistical Methods P 305</td>
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<td>Educational Psychology P 325</td>
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<td>Secondary School Methods TE 381</td>
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<tr>
<td>Respiratory Therapy Colloquium RT 401</td>
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</tbody>
</table>

**Course Offerings**

See page 19 for definition of course numbering system

**RT RESPIRATORY THERAPY**

### Lower Division

**RT 203 RESPIRATORY THERAPY THEORY I (2.0-2.0-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 (0-12-3) (F).** Experience in the hospital with patients, techniques, and equipment. Emphasis on use of medical gases. **PREREQ:** PERM/INST.

**RT 209 GENERAL PATHOLOGY (3-0-3) (F).** Human pathology as pertains to systems of defense, modes of injury, diseases of development and function, heart, hematopoietic and lymphoreticular systems, and respiratory system. **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 223 RESPIRATORY THERAPY THEORY II (2-0-2) (S).** Principles, equipment used for hyperinflation therapy. Therapeutic techniques and application of chest physiotherapy. In-depth study of hospital infection control including comparative studies and various sterilization and disinfectant techniques. **PREREQ:** PERM/INST.

**RT 224 RESPIRATORY THERAPY LABORATORY II (0-2-1) (S).** Use of hyperinflation therapy devices and chest physiotherapy. **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 (1.0-1) (S).** Ventilation, perfusion, compliance, resistance and pathophysiology of the lungs. **PREREQ:** PERM/INST.

**RT 228 PULMONARY MEDICINE II (0-2-1) (S).** Experience in the hospitals with patients, techniques, and equipment used in hyperinflation therapy and chest physiotherapy. **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 (3.0-2) (F).** Theory and clinical application of mechanical ventilator including care and management of artificial airways. **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 radiographic images. **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 (0.0-4) (F).** Experience in the hospital with patients, techniques and equipment as applied to mechanical ventilation and artificial airways. **PREREQ:** PERM/INST.

**RT 322 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 specialty techniques pertaining to pediatrics. **PREREQ:** PERM/INST.

**RT 327 PULMONARY MEDICINE III (3.0-3) (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 (0-24-6) (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 in interdepartmental relations are considered. **PREREQ:** PERM/INST.

**RT 401 RESPIRATORY THERAPY COLOQUIUM (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.
Part 11

Graduate Program Coordinators

Business  Gerald J. LaCava, Ph.D., Associate Dean, College of Business
Education  Lamont S. Lyons, Ed.D., Associate Dean, College of Education
English   Charles G. Davis, Ph.D., Professor of English
Exercise & Sports Science  Glenn R. Potter, Ed.D., Chairperson and Professor of Physical Education
Geology   Claude Spinosa, Ph.D., 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
Public Affairs  Alex Pattakos, Ph.D., Associate Professor of Political Science
Raptor Biology  Robert C. Rychert, Ph.D., Professor, Department of Biology

Admission As A Graduate Student

The Office of the Graduate College, under direction of the Graduate Dean, provides complete admissions counseling for all graduate programs, evaluates all transcripts for admission to the graduate programs and determines admission requirements. Students holding a bachelor's or higher degree can be classified as graduate, senior, sophomore or special for fee purposes, financial aid and institutional reporting. Clarification on classification can be obtained from the Office of the Graduate College.

Admission requirements for students pursuing master's degrees vary according to the graduate program. Please see the graduate program requirements listed below for the program.

1. All students holding a bachelor's or higher degree must submit a graduate application for admission.

2. All graduate students, except the categories listed below, must submit official transcripts, from each post-high school institution attended, directly to the Graduation Admissions Office. An official transcript is one certified by the issuing institution and mailed by that institution directly to the BSU Office of the Graduate College. Exempt categories: Students enrolling for 7 or fewer credits pursuing general graduate study or undergraduate courses of interest.

3. All graduate students enrolling for 8 or more credit hours and all students pursuing a master's degree must also pay a $10.00 application processing fee. Graduate students who receive their bachelor's degree from BSU are exempt from the application processing fee UNLESS they are pursuing a master's degree.
Programs
Boise State University offers the graduate degrees of Master of Business Administration, Master of Arts/Science in Education, Master of Science in Exercise and Sports Science, Master of Public Affairs, Master of Arts in English, Master of Arts in History, Master of Science in Raptor Biology, a Cooperative Master of Science in Geology in conjunction with Idaho State University and a Cooperative Master of Science in Geophysics in conjunction with the University of Idaho.


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 educational activities.

Part-time faculty who are approved by the Graduate Council to teach a graduate course 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 programs or general graduate study as an unclassified graduate may be made at any time. It is recommended, however, that at least two months before the initial enrollment, the Office of the Graduate College will have received the application for admission, $10.00 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 the Graduate College 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 sufficient time to process and make the transcripts. Applicants are strongly advised to submit the application for admission and the $10.00 application processing fee prior to submitting the additional documents.

All documents received by the University in conjunction with such 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 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: Applicants may be admitted to the Graduate College at Boise State University under two classifications.

Regular Status: The applicant has been admitted with full graduate status into a graduate degree program and has received official institutional notification to this effect.

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.

Graduate Courses for Undergraduate Credit
Boise State University seniors may take up to two 500 level courses for 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 plans to work and the Graduate Dean, may enroll for graduate credit during his senior year insofar as these credits will not prejudice his 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 program of study. No grade below B may be used for any 300 or 400 level courses in a graduate program. Grades below B 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. A student who earns a grade of 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 dissertation, and the other Idaho universities.

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 may have been taken in an accredited college or university. Only courses with a B or better 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 Raptor Biology or Geophysics should contact the Graduate Admissions Office to secure forms necessary to make application for taking the predictive exam called the GRE.

Program Development Form: Graduate students with regular or provisional status will completed 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, has removed all listed deficiencies, and has 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 is optional with the department or interdisciplinary unit which field 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 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.

Limitations on Student Course Loads: Graduate students seeking to take courses for graduate credit only in the evening or only in the early morning and in the evening, may not take more than a total of two such courses in any one semester or summer session. Waiver of this rule may be granted by the Dean of the Graduate College with the explicit recommendation of the dean of the college responsible for the student's program.

Course Numbering System: Courses numbered 500 and above are intended primarily for graduate students. The number designates the educational level of the typical student in the class, i.e., he has graduated from college. Some graduate courses have a standard numbering system throughout the university.

University-Wide Numbers of Graduate Offerings:

- 580-589 Selected Topics
- 590 Practicum
- 591 Project
- 592 Colloquium
- 593 Research and Thesis
- 594 Extended Conference or Workshop (graded A through F)
- 595 Reading and Conference
- 596 Directed Research
- 597 Special Topics
- 598 Seminar
- 599 Short-Term Conference or Workshop

*Graded Pass or Fail. This number is available in any semester or session for courses meeting 3 weeks or less.
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 at Boise State University. Master's programs at Boise State University 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. The College of Business has a limitation of three credits of Internship and/or Directed Research for MBA students.

Undergraduate Courses for Graduate Credit: Other courses 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.
   a. 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 Credit

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 Office of the Graduate College. 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.

Graduate Program, College of Business

Master of Business Administration

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 course 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.

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 enrollment, students should arrange to take the GMAT by July. For spring enrollment, the GMAT should be taken no later than the October or November test date.)

1. Possession of a Bachelor's degree from an accredited institution.
2. Demonstration of satisfactory academic competency by virtue of acceptable scores achieved by either of the following formulae: 1) 200 x overall GPA plus GMAT score must equal or exceed 1100, or 2) 200 x junior/senior plus GMAT score must equal or exceed 1100.
3. For foreign students, in addition to the above formulae minima, a score of 550 on the TOEFL, or its equivalent, is necessary.
4. All applicants must have two years significant work experience or a 500 minimum GMAT score.
5. All applicants must be accepted by the Graduate College of Boise State University in order to achieve the Master degree.

Degree Requirements

The MBA Degree

The Master of Business Administration degree consists of a maximum of 54 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

Advanced Courses

Electives

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.

Under certain conditions with the approval of the MBA program coordinator and the Department head concerned, MBA students may earn up to a maximum of 3 credit hours of Directed Research and/or Internship credits which apply to graduation requirements.

Course Offerings

See page 19 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 institution, 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). This course covers the basic accounting principles and techniques of double-entry bookkeeping. Emphasis is placed on the preparation of financial statements and the underlying financial accounting procedures.

DS 513 BUSINESS STATISTICS (3-0-3) (F). This course covers the descriptive statistics techniques necessary for the MBA student. Included is an in-depth study of data and sampling distributions, confidence intervals, hypothesis testing, correlation and regression analysis.

DS 523 PRODUCTION AND SYSTEMS MANAGEMENT (3-0-3) (S). This course stresses the management of the production function: analysis, design and layout, scheduling, time and motion study, quality control, and materials acquisition. Also included is management information systems and the system's development from feasibility study through system implementation. PREREQ: DS 513.

EC 514 ECONOMIC THEORY AND ANALYSIS (3-0-3) (F). This course covers the economic analysis of the price system and the aggregate performance of developed economies. Supply and demand, market structures, income distribution, employment, inflation, and growth are considered.

FI 525 CORPORATE FINANCE (3-0-3) (S). Concepts and techniques of corporate financial and investment analysis 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, employees, shareholders, and members of the general public.
### Graduate College

**MG 528 ORGANIZATIONAL THEORY AND BEHAVIOR (3-0-3)** (S). This course covers the process of planning, organizing, direct, 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)** (S). This course includes a comprehensive examination of the activities and models used in marketing. It also includes identifying and interpreting buyers' needs, market segmentations, and designing a balanced marketing program.

### ADVANCED COURSES

**AC 531 ACCOUNTING—PLANNING AND CONTROL (3-0-3) (F/S).** 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 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/S).** 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/S).** 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 acquisitions are major topics. PREREQ: EC 514 or equivalent.

**GB 536 BUSINESS IN A GLOBAL SOCIETY (3-0-3) (F/S).** 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/S).** This capstone course integrates concepts, practices and methods in strategic planning and environmental analysis. Emphasis is on the evaluation of existing strategies, 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 GB 538.

**MG 538 MANAGING PEOPLE IN ORGANIZATIONS (3-0-3) (F/S).** 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.

**MG 539 STRATEGIC MARKETING MANAGEMENT (3-0-3) (F/S).** An analysis and integration of marketing concepts and models with organizational and environmental constraints. Emphasis is 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: MK 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 531 STATISTICAL METHODS FOR BUSINESS (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.

**EC 560 ECONOMICS OF PUBLIC POLICY (3-0-3) (F).** Contribution of economic analysis to the justification, design and implementation of economic 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.
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 Office of the Graduate College will have received the application for admission, $10.00 application processing fee and official transcripts of all undergraduate and graduate work. The transcripts are to be sent directly to the Boise State University Office of the Graduate College 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 contributing to instruction. The candidate must meet the requirements of the particular program for which he or she applies.

An applicant for regular status in the program must have maintained a GPA of at least 3.00 for the last two years of undergraduate study and must have received 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 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 offering 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), Mathematics and Music.

**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 Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 570</td>
<td>Graduate Core-Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>TE 563</td>
<td>Conflicting Values in Education</td>
<td>1</td>
</tr>
</tbody>
</table>

**Elective Courses (Select two from the following):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 561</td>
<td>Law for the Classroom Teacher</td>
<td>1</td>
</tr>
<tr>
<td>TE 562</td>
<td>School Organization and Finance</td>
<td>1</td>
</tr>
<tr>
<td>TE 564</td>
<td>Instructional Techniques—Secondary School</td>
<td>1</td>
</tr>
<tr>
<td>TE 565</td>
<td>Interpreting Educational Research</td>
<td>1</td>
</tr>
<tr>
<td>TE 566</td>
<td>Learning Theory and Classroom Instruction</td>
<td>1</td>
</tr>
<tr>
<td>TE 568</td>
<td>Techniques of Classroom Management</td>
<td>1</td>
</tr>
<tr>
<td>TE 569</td>
<td>Testing and Grading</td>
<td>1</td>
</tr>
<tr>
<td>TE 573</td>
<td>Instructional Techniques—Elem School</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.

**OPTION I**

**(Thesis/Project)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 551</td>
<td>Fundamentals of Education Research</td>
<td>3</td>
</tr>
<tr>
<td>TE 591</td>
<td>or TE 593 Thesis or Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**Approved electives and specific requirements 10**

**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.

**OPTION II**

**(Comprehensive Examination)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 559</td>
<td>Philosophy of Education</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: Students selecting Option II are required to 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 and specific requirements 24**

**TOTAL 33**

A Comprehensive Written Examination is required at the end of the coursework. This examination is to be tailored by each candidate's committee specifically for that candidate following guidelines established by the department. After the candidate has written the examination, the committee will meet with the candidate to review the examination prior to final approval or rejection.

**Curriculum and Instruction Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 570</td>
<td>Graduate Core</td>
<td>6</td>
</tr>
<tr>
<td>TE 581</td>
<td>Curriculum Planning and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>TE 582</td>
<td>Instructional Theory</td>
<td>3</td>
</tr>
<tr>
<td>TE 565</td>
<td>Interpreting Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>TE 566</td>
<td>Learning Theory and Classroom Instruction</td>
<td>1</td>
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<td>TE 568</td>
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<td>1</td>
</tr>
<tr>
<td>TE 569</td>
<td>Testing and Grading</td>
<td>1</td>
</tr>
<tr>
<td>TE 573</td>
<td>Instructional Techniques—Elem School</td>
<td>1</td>
</tr>
</tbody>
</table>

**TOTAL 33**

**Early Childhood Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 543</td>
<td>Early Childhood: Readings</td>
<td>3</td>
</tr>
<tr>
<td>TE 544</td>
<td>Early Childhood: Environments—Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>TE 546</td>
<td>Early Childhood: Environments &amp; Programs</td>
<td>3</td>
</tr>
<tr>
<td>TE 547</td>
<td>Early Childhood: Language Acq &amp; Dev</td>
<td>3</td>
</tr>
<tr>
<td>TE 590</td>
<td>Practicum: Early Childhood</td>
<td>2</td>
</tr>
<tr>
<td>TE 551</td>
<td>Fundamentals of Ed. Research</td>
<td>6</td>
</tr>
</tbody>
</table>

**Approved electives 9**

**TOTAL 33**

**Graduate Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 551</td>
<td>Fundamentals of Ed. Research</td>
<td>3</td>
</tr>
<tr>
<td>TE 591</td>
<td>or 593 Thesis or Project</td>
<td>3</td>
</tr>
</tbody>
</table>

**Approved electives 10**

**TOTAL 13**

**Early Childhood Emphasis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 543</td>
<td>Early Childhood: Readings</td>
<td>3</td>
</tr>
<tr>
<td>TE 544</td>
<td>Early Childhood: Environments—Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>TE 546</td>
<td>Early Childhood: Environments &amp; Programs</td>
<td>3</td>
</tr>
<tr>
<td>TE 547</td>
<td>Early Childhood: Language Acq &amp; Dev</td>
<td>3</td>
</tr>
<tr>
<td>TE 590</td>
<td>Practicum: Early Childhood</td>
<td>2</td>
</tr>
</tbody>
</table>

**Approved electives 10**

**TOTAL 33**

**Graduate College**
# Graduate College

## Reading Emphasis

For Those Primarily Responsible for Elementary School Instruction

1. Graduate Core .............................................. 6
2. TE 501 Foundations of Reading Instruction .................. 3
3. TE 508 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 ..................................... 6
   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

NOTE: Completion of the required courses in the Master of Arts in Education, Reading emphasis 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 certification requirements.

For Those Primarily Responsible for Secondary School Instruction

1. Graduate Core .............................................. 6
2. TE 501 Foundations of Reading Instruction .................. 3
3. TE 508 Diagnosis & Correction of Read Prob—Sec ........ 3
4. TE 504 Seminar in Reading Education ........................ 3
5. Option electives (choose I or II below)
   I. Thesis/Project
      TE 551 Fundamentals of Educ. Research ................ 3
      TE 591 or 593 Thesis or Project ........................ 6
      Reading electives ....................................... 3
      Approved electives ..................................... 6
   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

NOTE: Completion of the required courses in the Master of Arts in Education, Reading emphasis 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 certification requirements.

## Special Education Emphasis

For Students Interested in an Emphasis in Educationally Handicapped and/or Severe Retardation

### Educationally Handicapped:

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 Special Educ .................... 3
7. Option electives (choose I or II below)
   I. Thesis/Project
      TE 551 Fundamentals of Educ. Research ................ 3
      TE 591 or 593 Thesis or Project ........................ 6
      Approved electives ..................................... 3
   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).
      Approved electives ..................................... 9

   Suggested Electives:
   - TE 450G Behavior Intervention Techniques ................ 3
   - TE 502 Diagnosis & Correct. of Read Prob—Elem .......... 3
   - TE 503 Clinic for Reading Specialists .................... 3
   - TE 505 Individual Tests and Measurements ................ 3
   - TE 590 Practicum: Special Education ...................... 3
   - TE 596 Directed Research: Special Education ............ 3

   TOTAL 33

NOTE: Completion of the required courses in the Master of Arts in Education, Special Education emphasis may not qualify the candidate for state certification. The candidate should seek the help of his or her advisor to determine certification requirements.

## Master of Science in Education Instructional Technology

The Master of Science in Education, Instructional Technology emphasis is intended to prepare students for professional careers in business, government or education. This program prepares students with skills needed to identify, analyze and solve human performance problems in any work or educational setting. Students are also equipped with a broad range of skills in instructional design, program development, diffusion of innovation, and in cost-effectively using a variety of educational/training delivery systems.

### 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 538 Instructional Courseware Design ...................... 3

### Suggested Electives:

- TE 547 Lang Acq & Develop in EarlyChild Ed ............... 3
- TE 546 Diagnosis & Eval in Early Childhood Ed ............. 3
- TE 547 Lang Acq & Develop in EarlyChild Ed ............... 3
- TE 548 Behavior Intervention Techniques .................... 3
- TE 546 Diagnosis & Eval in Early Childhood Ed ............. 3
- TE 590 Practicum: Special Education ...................... 3
- TE 548 Behavior Intervention Techniques .................... 3
- TE 590 Practicum: Special Education ...................... 3
- TE 595 Directed Research: Special Education ............ 3
- Advanced sign language class ................................ 3

TOTAL 33

NOTE: Completion of the required courses in the Master of Arts in Education, Special Education emphasis may not qualify the candidate for state certification. The student should seek the help of his or her advisor to determine certification requirements.
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
- Accounting for Managers AC 511
- Communication Tech for Managers AS 512
- Public Policy Form & Implement PO 520
- Conflict & Change in Socio-Culture Systems SO 510
- Curr Plan & Implement TE 581
- Artificial Intelligence Appl TE 539

Electives sub-total 6

PROGRAM TOTAL 33

Second Master's Degree
If you earned a master's degree in Education from Boise State University you 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
   - 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).
   c. A maximum of 10 credits may be undergraduate work.
   d. A maximum of 10 credits may be pass/fail.
   e. A maximum of 6 credits of "C" grades will be accepted.
   f. Overall G.P.A. for the program must be 3.00.
   g. The program must be planned with an advisor and must be completed within seven years of the first credits applied to the program.

This is not a degree or certification program. If, as a result of coursework taken in the program, the candidate becomes eligible for a different certificate or endorsement, it is the candidate's responsibility to make application to the State Department of Education.
TE 513 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCIENCE (3-0-3F). 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 (3-1-3F). 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 related to learning. Major areas to be addressed will include theories and approaches to counseling and consulting, communication skills, intervention programs. PREREQ: GRAD or PERM/INST.

TE 515 ADVANCED THEORY OF INSTRUCTIONAL DESIGN FOR SPECIAL EDUCATORS (3-0-3F). 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 (3-0-3S). Teachers and others working with the instructional needs of 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 (3-0-3S 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 (3-0-3S). Methods and techniques for encouraging creative writing in the elementary school.

TE 519 CHILDREN'S LITERATURE, ADVANCED LEVEL (3-0-3S). Current literature for children, including emphasis upon poetry is presented. Issues in children's book selection are discussed.

TE 520 VIDEO DELIVERY SYSTEMS (3-0-3S). 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 (3-0-3S/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 (3-0-3S/SU). Emphasis upon the individualized approach to reading instruction is developed. Techniques of conferencing book selection, skill development and independent 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 identifying emotional problems and planning the remedial steps needed for correction. PREREQ: PERM/INST.

TE 531 EDUCATION FOR THE CULTURALLY DIFFERENT LEARNER (3-0-3S). 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 (3-0-3S 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 center on research-based and will focus on all areas of exceptionality in both elementary and secondary school settings. PREREQ: GRAD or PERM/INST.

TE 536 INTRODUCTION TO INSTRUCTIONAL TECHNOLOGY (3-0-3F). 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.

TE 537 INSTRUCTIONAL DESIGN (3-0-3F). This course will enable students to identify instructional needs, determine and organize content, select appropriate media, and devise evaluation and revision cycles.

TE 538 INSTRUCTIONAL COURSEWARE DESIGN (3-0-3S). Students will design instruction with the assistance of a microcomputer and link the instruction with video technology. Students will investigate several authoring languages to facilitate the development and delivery of instruction. PREREQ: TE 537.

TE 539 ARTIFICIAL INTELLIGENCE APPLICATION (3-0-3S). Students will investigate instructional technology in the creation of knowledge-based systems as a method of instruction. Students will create instructional programs using expert systems and artificial intelligence.

TE 541 EDUCATION IN EMERGING NATIONS (3-0-3F). The course provides an analysis of the relationship between national goals and the educational system in the developing world. Contemporary systems will be studied in light of three major factors: (1) religious factors; (2) natural factors such as race, language and environment; (3) secular factors such as Humanism, Socialism and Nationalism.

TE 543 EARLY CHILDHOOD: READINGS (3-0-3S). Past and current research in early childhood education will be reviewed and synthesized in a seminar format. Students will determine a specific research area to study in depth.

TE 544 EARLY CHILDHOOD: ADVANCED CHILD DEVELOPMENT (3-0-3F). The student will examine in depth the physical, social-emotional, cognitive-language, and creative development of children, birth to age eight.

TE 546 EARLY CHILDHOOD: ENVIRONMENTS AND PROGRAMS (3-0-3S). The student will examine critical elements in the development and administration of effective early childhood programs including evaluating children, setting up the environment, developing and implementing curriculum, and teaching methods.

TE 547 EARLY CHILDHOOD: LANGUAGE ACQUISITION AND DEVELOPMENT (3-0-3F). The student will examine various theories and stages of language development, and will study approaches to facilitate language development in children of English and non-English speaking backgrounds.

TE 551 FUNDAMENTALS OF EDUCATIONAL RESEARCH (3-0-3S/SU). This course will introduce students to the elements of experimental and non-experimental research designs. Instruction in using research resources and in interpreting statistics will be given and students will analyze current research related to education. Students will learn how to develop a research proposal and will write a scholarly research paper.

TE 555 SUPERVISION OF INSTRUCTIONAL PERSONNEL (3-0-3S). A course designed to improve the supervision skills of elementary/secondary cooperating teachers and other supervisory personnel. Emphasis will be placed on a variety of observation and evaluation strategies designed to improve instruction.

TE 559 PHILOSOPHY OF EDUCATION (3-0-3S/SU). Students will analyze and evaluate past and contemporary philosophies and the values derived from them as they apply to education. A formal paper will be required.

TE 561 SCHOOL LAW FOR THE CLASSROOM TEACHER (1-0-1S). This course will provide school personnel with an overview of school law designed to help them become more aware of student and teacher rights and how those rights can be legally asserted. The emphasis will be on "preventive" law, thus avoiding litigation.

TE 562 SCHOOL ORGANIZATION AND FINANCE (1-0-1S). This course will provide a brief overview of the federal, state and local organizational structures of schooling in America with particular attention given to funding and sources of authority. Issues of policy making as they affect teachers will be examined.

TE 563 CONFLICTING VALUES INFLUENCING EDUCATION (1-0-1S). Students will explore ideological positions which have affected educational programs and policies. Students will be asked to carefully consider their own values and analyze how these positions affect their modes of classroom operation. PREREQ: Graduate status. COREQ: TE 570.

TE 564 INSTRUCTIONAL TECHNIQUES-SECONDARY SCHOOLS (1-0-1S). In this course, students will investigate instructional techniques which have sound basis in research and theory and which promote development of thinking skills in students.

TE 565 INTERPRETING EDUCATIONAL RESEARCH (1-0-1S). This course will prepare students to read, understand, and critically analyze educational research in their own fields. It includes basic research terminology, strengths and weaknesses in research design, and interpretation of research results. COREQ: TE 570.

TE 566 LEARNING THEORY AND CLASSROOM INSTRUCTION (1-0-1S). Students will investigate major contemporary learning theories and their implications for instruction and curriculum development.

TE 568 TECHNIQUES OF CLASSROOM MANAGEMENT (1-0-1S). This course will explore approaches to effectively working with students in elementary and secondary classrooms. Skill development and theoretical considerations related to developing healthy and productive learning environments will be emphasized.

TE 569 TESTING AND GRADING (1-0-1S). This course will include an introduction to the theories and fallacies of testing and grading. Problems and methods of constructing teacher-made tests will be included, with practice in designing better tests and systems of grading. COREQ: TE 570.
TE 570 GRADUATE CORE ISSUES IN EDUCATION (3-0-3)(SU). This course is part of the graduate education core. The content of this course varies, depending upon the current educational issues, but does always include readings, large group presentations, and small group discussions over philosophical, psychological, and sociological aspects education.

TE 573 INSTRUCTIONAL TECHNIQUES—ELEMENTARY SCHOOL (1-0-1)(SU). In this course, students will investigate instructional techniques which have sound bases in research and theory and which promote the development of thinking skills in elementary students.

TE 576 FUNDAMENTALS OF BILINGUAL EDUCATION/ESL (3-0-3)(DEMAND). This course is designed to give experienced teachers a study of Bilingual Education and English as a Second Language. Students study the historical and cultural foundations, the current legal issues, psycholinguistic research, issues in language assessment, and biocognitive processes. Also presented are the prevalent methodologies and approaches used throughout the country. Offered on demand.

TE 578 PARENTS IN THE EDUCATIONAL PROCESS (1-0-1)(SU). This course will give students a broad understanding of the role of parents in education and the role of the teacher in initiating and/or implementing parental involvement. Particular attention will be given to ways of involving parents who typically do not participate in the educational process.

TE 581 CURRICULUM PLANNING AND IMPLEMENTATION (3-0-3)(FS/SU). This is a general course for practicing teachers intended to give them a foundation in curriculum theory and practice. They will develop understanding of how curriculum is developed, organized, implemented, and evaluated. Current issues and trends in curriculum with some historical perspective will be explored.

TE 582 INSTRUCTIONAL THEORY (3-0-3)(FS/SU). This course includes investigations of research and theory about educational contexts, motivation, learning and development as they relate to models of instruction. Students will develop skills in selecting appropriate instructional models to achieve specific purposes in a variety of educational settings.

TE 583 SELECTED TOPICS—INSTRUCTIONAL TECHNOLOGY (3-0-3)(S). The students will explore issues and applications of technologies of current interest. Seminar content will be revised continually to reflect current developments in instructional technologies. PREREQ: TE 530.

TE 599 PRACTICUM (Variable).

TE 591 PROJECT (0-0-6).

TE 593 THESIS (0-0-6).

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:
      1. Art Appreciation in the Educational Program AR 501 .......................... 3
      2. Special Methods: Curr & Develop in Art Educ AR 551 .......................... 3
      3. Project AR 591 ................................................................. 6
      OR
      4. Thesis (or additional hours) AR 593 .......................... 6
   b. Studio or Content: Six (6) credits in the studio. Studio concentration and emphasis will be determined by the student and his committee.
   c. 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 19 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 the interpretation of ideas and symbols. Also emphasized will be communication of ideas to the various age groups represented on the secondary school level.

PREREQ: Graduate status or PERM/INST.
GO 412G HYDROGEOLOGY (3-0-3S) (Field trip required).
GO 460G VOLCANOLOGY (2-0-2F) (Field trip required).
GO 471G REGIONAL FIELD STUDY (1, 2, or 3 CR) (F/S/SU).

Graduate

GO 511 ENVIRONMENTAL GEOLOGY (3-0-3F). Land-use planning, techniques for investigation of surficial materials and water resources. Geologic hazards, surficial deposits and their engineering and hydrologic properties, ground and surface water, waste disposal. Term reports required, field trips required. This course can be taken for undergraduate credit by filing our necessary forms. PREREQ: GO 221 or PH 220.

GO 521 ADVANCED TOPICS IN EARTH SCIENCE (3-0-3SU). The study, review, and discussion of literature, demonstrations, teaching aids related to geology, astronomy, meteorology and oceanography. The course provides knowledge, skills and material resources that can increase the students capability to teach earth science in elementary and secondary schools. PREREQ: Graduate status or PERM/INST.

GO 531 REGIONAL GEOLOGY OF NORTH AMERICA (3-0-3S). A systematic study of the geologic provinces of North America with special emphasis on geological relationships and tectonic evolution. Each province is investigated in terms of its structural and geologic history and mineral resources. PREREQ: Graduate status of PERM/INST.

GO 541 METHODS AND TECHNIQUES OF GATHERING, MEASURING AND TESTING GEOLOGICAL DATA (3-0-3F). A study of correct and approved ways to collect representative field samples of rocks, minerals, fossils, etc., to measure topographic, structural and stratigraphic entities; to analyze and classify statistically sedimentational, petrologic and mineralogic samples with laboratory techniques, and to log subsurface data. PREREQ: PERM/INST.

GO 551 CURRENT TOPICS IN GEOLOGY (3-0-3S). An investigation of current research, debates and developments regarding practical, as well as theoretical, issues in Geological Science. PREREQ: Graduate status or PERM/INST.

GO 561 EARTH SCIENCE TEACHING TECHNIQUES (3-0 or 4-0-4F/S). This course is a study of the objectives, methods, and materials of instruction in Earth Sciences. Emphasis will be placed on the preparation and presentation of lectures, laboratory exercises and field trips. This course provides the student with internship experience in the laboratory and lecture classroom. PREREQ: Graduate status or PERM/INST.

GO 571 GEOCHEMISTRY (3-0-3S). Chemical equilibrium applied to natural water systems. Oxidation and reduction in sedimentation and ore genesis, methods of exploration geochemistry, crystallization of magmas, ore-forming solutions, isotope geochemistry. This course can be taken for undergraduate credit by filing necessary forms. Field trip required. PREREQ: GO 101, C 133, M 204.

GO 591 PROJECT (7-3 to 6-6). A field, laboratory or library investigation. The student will select a project according to his own interest and pursue it to a logical conclusion. Weekly progress meetings are held with the instructor and a final report is required. PREREQ: Graduate status and 15 credits in Earth Science or PERM/INST.

GO 593 THESIS (0-3 to 0-5). The scholarly pursuit of original work on a field or laboratory project or the formulation of new and logical interpretations of existing data collected by library research. A final report suitable for presentation at a meeting of Earth Science professionals is required. PREREQ: Admission to candidacy.

GO 596 DIRECET RESEARCH (0-1 to 0-4). Field, laboratory or library research project. Students may work on an individual problem or select a problem from a list provided by the instructor. Weekly progress meetings, final report. PREREQ: Physical Geology or Fundamentals of Geology and/or PERM/INST.

GO 598 GRADUATE SEMINAR (0-1 to 0-3). The preparation and presentation of oral and written reports on topics in earth science and/or science education. Presentation of oral reports may take the form of debate. Preparation of visual aids and geologic illustrations will be emphasized. PREREQ: Admission to candidacy or PERM/INST.

GS GENERAL SCIENCE

GS 501 HISTORY OF SCIENCE (3-0-3F/S). This is a survey of humanity's efforts to understand the natural world. "Ancient Science" is presented as an introduction to the evolution of science since the 16th century. "Modern Science" is presented with emphasis on the development of modern scientific thought. Historical illustrations of the nature of scientific research in the evolution of science are presented. 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 .......................... 6
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 .......................... 9
TOTAL ...................................................... 33
The 33-hour "thesis option" is the same as the "project option" except that M 591 is replaced with M 593.

2. Mathematics Requirements

1a. Required Courses
M 501, 502 Real Analysis I, II or M 541 .................. 6
M 542 Modern Algebra ................................... 3
M 598 Seminar in Mathematics ................................ 3

1b. Elective courses—Additional courses planned by the students and their 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 19 for definition of course numbering system

M MATHEMATICS

Undergraduate

See appropriate department listing for detailed course descriptions of these undergraduate courses which may be taken for graduate credit.

M 460G THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (3-0-3F/S).
M 431G-432G PROBABILITY AND STATISTICS (3-0-3F/S).
M 456G LINEAR PROGRAMMING (4-0-4F/S).

Graduate

M 501-502 REAL ANALYSIS I, II (3-0-3). The real number system. Set theory and metric spaces. Sequences and series. Continuity of real functions. Differentiation, the Riemann-Stieltjes integral. Sequences and series of functions. PREREQ: M 314 or PERM/INST.

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 311.

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. 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 (4-0-4/5). 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 relatively advanced mathematical topics selected from texts or mathematical journals. This will not be a seminar in mathematics education.

Master of Arts in Education—Music Emphasis

1. The Master's Degree in Education, Music 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 his/his committee 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 on 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, and 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.

1. Required Courses Graduate Core .......................... 6
   MU 503 Intro to Research Materials in Music Education .......... 3
   MU 570 New Developments in Music Education .................. 3
   MU 592 Thesis or MU 591 Culminating Project ................ 3
   OR .......................................................... 3

Additional Course Work

Culminating Project may be selected from but not limited to any of the following:

a. Library research paper which fits the educational needs of the student,
b. Curriculum proposal in written form which could be considered for implementation in the schools,
c. Lecture/Recital which presents various aspects of music (Stylistic considerations, etc.) in lecture format by degree candidate and musical examples in recital format by assisting performer(s).

d. Written examination of 5 questions chosen by the student's committee chair from a list of 20 submitted by the student.

2. Elective Courses

A minimum of 10 elective credits must be taken in the areas of performance, conducting, theory and analysis, and/or history and literature. These courses include all MC 500 (applied music) courses, ME 510, ME 515, ME 520, MU 501, MU 506, MU 511, and MU 561. Additional courses will be planned by the student and his graduate committee.

TOTAL 30-33

Course Offerings

See page 19 for definition of course numbering system

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.

MC 501 (0-5-1), 502 (0-5-2) Woodwind instruments private lessons.
MC 511 (0-5-1), 512 (0-5-2) Brass instruments private lessons.
MC 521 (0-5-1), 522 (0-5-2) Percussion instruments private lessons.
MC 531 (0-5-1), 532 (0-5-2) Voice private lessons.
MC 541 (0-5-1), 541 (0-5-2) Keyboard instruments private lessons.
MC 551 (0-5-1), 552 (0-5-2) Fretted string instruments private lessons.
MC 561 (0-5-1), 562 (0-5-2) Bowed string instruments private lessons.

ME MUSIC ENSEMBLE

Graduate

ME 510 CHORAL ENSEMBLE (0-2-1) (FS). 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 (0-1-3) (FS). 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 listing for detailed course descriptions of these undergraduate courses which may be taken for graduate credit.

MU 423 SIXTEENTH CENTURY COUNTERPOINT (3-0-3).
MU 424 COUNTERPOINT SINCE 1600 (3-0-3).

Graduate

MU 501 HISTORY OF MUSIC IN THE UNITED STATES (3-0-3) (FS). Designed for the secondary school musial specialist, this course will provide an introduction to the basic research literature within music education, interpretation of research findings, basic research teaching, problems in music educational research, and a review of literature pertinent to students' major area of interest will be included.

MU 503 INSTRUCTIONAL MATERIALS IN MUSIC EDUCATION (3-0-3) (FS). Designed for the secondary music teacher, this course will provide an introduction to the basic research literature within music education, interpretation of research findings, basic research teaching, problems in music educational research, and a review of literature pertinent to students' major area of interest will be included.

MU 505 SEMINAR IN CHORAL MUSIC: PERFORMANCE PRACTICES AND STYLES (3-0-3) (FS). 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) (FS). 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.

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Graduate Program, College of Arts and Sciences

Master of Arts in English

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 will 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 Graduate English electives (except E-501) .................................................. 12
Project, Thesis or additional course ........................................................................... 3
*General Graduate electives (may include E-501) ......................................................... 15
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, though they may cover influence from other literatures. A maximum of six hours in 400G 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-501, 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 19 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-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/CHMN.

E-501 THE TEACHING OF WRITING (3-0-3)(F). 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/CHMN.
E 505 LINGUISTICS (3-0-3)(F/S). Modern linguistic theories and their application to literature and teaching English. An examination of how various grammatical models represent the complexities of language sound, sequence, and structure. Application of theory to language at work. PREREQ: E 500 and LI 305 or equivalent or PERM/CHMN.

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 influences on others. Aspects of investigation to include the life of the author and its relation to his work, the society and culture of the times, the place and stature in the genres in which he worked, his use or disregard of tradition, as well as an investigation of contemporary criticism and critical evaluation since his time. PREREQ: E 500 or PERM/CHMN.

E 520 GENRE (3-0-3)(F/S). A study of a well-defined literary category, such as novel, short story, epic or tragedy. Examination of representative texts in order to discover the evolution of a specific literary genre while at the same time establishing its typical features. PREREQ: E 500 or PERM/CHMN.

E 530 PERIOD (3-0-3)(F/S). A study of a selected chronological period of American or British literature with focus on major author's genres, or topic. PREREQ: E 500 or PERM/CHMN.

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 of myths in the works of major authors may be explored. PREREQ: E 500 or PERM/CHMN.

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/CHMN.

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/CHMN.

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 in writers past and present. PREREQ: E 500 or PERM/CHMN.

E 581 LITERATURE FOR USE IN JUNIOR AND SENIOR HIGH SCHOOLS (3-0-3)(F/S). A liberal 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/CHMN.

E 593 THESIS (V-0-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-0-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.

Graduate Program, College of Education

Master of Science in Exercise and Sport Studies

Objectives

The objective of this program shall be 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 dimension's and culminate their study with some form of scholarly endeavor (project or thesis).

Degree Requirements

Master of Science in Exercise and Sport Science

Core Requirements 15 Credits

- Functional Anatomy PE 500 3
- Physiology of Activity PE 510 3

Biomechanics PE 520 3
Psychology of Exercise & Sport PE 530 3
Applied Prin of Conditioning PE 540 3

TOTAL 15

Research Tools 6 Credits

Advanced Statistical Methods P 405g

TOTAL 6

Electives 6-9 Credits

Exercise Physiology Lab PE 515 3
Mechanical Anal 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 Option 6 Credits

Research & Thesis PE 593 6

Non-Thesis Option 3 Credits

Project PE 591 3

TOTAL 3

A revolving three year draft of graduate offerings is available upon request from the Department of HPER, C 209.

Course Offerings

See page 19 for definition of course numbering system

Undergraduate

PE 401G PSYCHOLOGY OF ACTIVITY (3-0-3)(F/S).

PE 402G ADVANCED ATHLETIC TRAINING (3-3-3S).

Graduate

PE 500 FUNCTIONAL ANATOMY (3-0-3). A study of gross human anatomy from the descriptive approach with emphasis on the skeletal, muscular, nervous and circulatory systems. Includes cadaver dissection. In addition, indepth study of joint structure and function, gross-motor-movement, and skill analysis will be included. Video analysis will be utilized.

PE 510 PHYSIOLOGY OF ACTIVITY (3-0-3). A practical study of the various factors affecting human performance and subsequent adaptations of the body to single and repeated bouts of exercise.

PE 515 EXERCISE PHYSIOLOGY LAB (2-2-3). Practical application of the principles that govern response and adaptation of the human body to exercise, utilizing laboratory equipment to collect data and analyze results.

PE 520 BIOMECHANICS (3-0-3). 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.

PE 525 MECHANICAL ANALYSIS OF MOTOR ACTIVITIES (3-0-3). An introduction to the 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 that relate to exercise, sport and performance. Content includes personality traits, motivation, anxiety/ arousal, and intervention/coping strategies.

PE 535 SOCIOLOGY OF EXERCISE AND SPORT (3-0-3). A study of the relationships between exercise, sport and other facets of society, including social organization, group behavior and social interaction patterns.


PE 545 EXERCISE TESTING AND PRESCRIPTION (2-3-3). 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.
Graduate Program,
College of Arts and Sciences

Master of Science, Geology

Boise State University and Idaho State University have a cooperative agreement which allows Boise area residents to enroll in the Idaho State University Master of Science program in Geology. Students enrolled in Idaho State University and Boise State University graduate classes may complete all but 12 of the necessary credit hours while in residence at BSU. Additionally, 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.

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 3.0 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 Dr. Craig White, Chairman, Department of Geology and Geophysics, Boise State University, or from Dr. Paul K. Link, Chairman, Department of Geology, Idaho State University.

Course Offerings
See page 19 for definition of course numbering system

The following courses taught at Boise State University may be included. 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 Graduate College.

GO 403G Engineering Geology
GO 412G Hydrology
GO 431G Petroleum Geology
GO 460C Volcanology
GO 471G Regional Field Geology
GO 511 Environmental Geology
GO 531 Regional Geology of North America
GO 541 Methods and Techniques of Geologic Data and Testing Geologic Data
GO 551 Current Topics in Geology
GO 571 Geochecmy
GO 593 Thesis
GO 596 Directed Research
GO 598 Graduate Seminar

Idaho State University Courses:
Geol 648 Research Problems
Geol 650 Thesis

Graduate Program,
College of Arts and Sciences

Master of Science, Geophysics

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, geological 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, mathematics, engineering, or chemistry. Evaluation for admission requires three personal references, transcripts from all colleges and universities attended, and scores on the GRE General Test. Students whose native language is not English must submit a TOEFL score of 550 or higher. A copy of a report resulting from a previous university course, professional position, or research experience is also requested as evidence of the applicant's ability to complete a significant project and write an acceptable scientific report. Preference is given to those applicants whose records indicate a high probability for successful completion of publishable graduate research. Application materials should be requested from Graduate Admissions, Boise State University, 1910 University Drive, Boise, ID 83725, telephone (208) 385-1337.

Graduate Assistantships: Current information on graduate assistantships is available from the Coordinator of the Geophysics Graduate Program.

Supervisory Committee: Each admitted student will be assigned a supervisory committee whose purpose is to 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, UoI, 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 section 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 (normally 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 requirements A and/or ISU may be applied to meet requirement C. Certain courses are normally ineligible for requirement A or B except that a maximum of 6 credits of requirements A may be satisfied with Uol 500-level geophysics courses. Certain courses are normally ineligible for requirement 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 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 Graduate Geophysics Course Offerings

See page 19 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 (3-0-3)F.

GP 420G GEOPHYSICAL APPLICATIONS OF DIGITAL SIGNAL PROCESSING (3-0-3)S.

GP 430G MATHEMATICAL MODELING IN GEOPHYSICS (3-0-3)S.

Graduate

GP 510 INTEGRATED GEOLOGY AND GEOPHYSICS IN PETROLEUM AND MINERAL EXPLORATION (4-0-4)F. Design and implementation of exploration projects. Advantages and limitations of exploration techniques in specific contexts are discussed. PREREQ: PERM/INST.

GP 515 STRATIGRAPHIC INTERPRETATION OF SEISMIC DATA (3-0-3)S. Advanced topics in seismic data processing and interpretation, particularly as related to the search for hydrocarbon resources. Integration with other forms of geologic and geophysical data including synthetic data. Identification of geologic age, depositional environment, rock type, structural history, and hydrocarbon occurrence. PREREQ: GP 300G, GP 420G.

GP 520 ENGINEERING GEOPHYSICS (3-0-3)F. Geophysical techniques applied to the evaluation of engineering site parameters. Applications to seismic hazards, ground water, waste disposal. Offered alternate years. PREREQ: GP 301, GP 410G.

GP 525 EARTHQUAKE SEISMOLOGY (3-0-3)F. Earthquake source, elastic body wave propagation in a radially symmetric Earth, surface waves, theory of the seismograph, properties of the Earth's interior. Offered alternate years. PREREQ: GO 101, M 331, CS 426.

GP 530 INVERSION THEORY AND GEOPHYSICAL APPLICATIONS (3-0-3)S. Backus-Gilbert theory using the generalized linear inverse. Damping model changes. Examples of geophysical applications. Offered alternate years. PREREQ: GP 301, M 301.

GP 535 TECTONOPHYSICS (3-0-3)F. Application of physics and mathematics to the investigation of tectonic processes. PREREQ: PERM/INST.


Uol Graduate Geophysics Course Offerings

Geoph 502 Directed Study ........................................ ARRD
Geoph 520 Exploration Geophysics ......................... 3
Geoph 521 Mining Geophysics ................................. 3
Geoph 523 Seismic Stratigraphy .................................. 3
Geoph/Geol 540 Probabilistic Methods ....................... 3
Geoph/Geol 590 Geophotography .............................. 3
Geoph/Min 503 Stress Analysis .................................. 3
Geoph/Min 504 Advanced Rock Mechanics ................. 3

Graduate Program, School of Social Sciences and Public Affairs

Master of Arts in History

Objective:
The Master of Arts in History at Boise State University is designed to provide the candidates with advanced study in the area of history.

Admissions:
Application for admission to the graduate program in History 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, $10.00 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 the college or university which the applicant previously attended. Applicants are also required to submit two letters of recommendation regarding the applicant's potential for graduate work in history, and a sample of the applicant's writing skills.

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 to candidacy.

Applicants for regular status in the program must have maintained a GPA of at least 3.0 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 hours planned by the student and his/her advisory committee from the following alternatives.

- 33 hours with thesis
  History ......................................................... 18
  Thesis (defended orally) HY 593 ............................ 6
  History ......................................................... 9
  History (oral examination) HY 593 .................... 6
  History ......................................................... 9

- 33 hours with project
  History ......................................................... 21
  History ......................................................... 3
  History ......................................................... 3

Written or oral examination covering aspects of project and course work taken in the History Department toward the degree.
### Graduate Program, School of Social Sciences and Public Affairs

#### Master of Public Administration

The Master Degree in Public Administration is an inter-university cooperative graduate program offered jointly by Boise State University, Idaho State University and the University of Idaho. The purpose of the program is to provide present and prospective public administrators with the basic intellectual preparation necessary to understand how to adjust to a changing and challenging environment through an introduction to the theories and practices of administration, management, and Social Science research as these relate to effective performance in public organizations. The MPA program is coordinated through an inter-University Committee comprised of the chairmen of the Departments of Political Science at the cooperating universities, a representative of the Office of the State Board of Education, and a representative of cooperative governmental agencies. The essential features of this inter-university cooperative program are: (1) general coordination and policy control by the inter-University Committee; (2) unrestricted transferability of credits earned at any of the participating universities; (3) coordination among universities in scheduling and offering courses in the MPA program; and (4) the establishment of a basic core of courses at all three cooperating institutions plus optional areas of emphasis which may vary among the universities and which reflect the particular areas of specialization available at the respective universities.

The inter-university MPA program has been designed in accordance with the "Guidelines and Standards for Professional Master's Degree Programs in Public Affairs and Public Administration" prescribed through the National Association of Schools of Public Affairs and Administration (NASPAA).

#### Admission to the MPA Program

Students may enroll in the MPA program by applying to one of the participating universities. Acceptance by any of the three universities admits a student into the MPA program. A matriculated student should complete graduate studies at the institution which offers the area of specialization which he or she wishes to emphasize. The specific program which each student will pursue will be established by an advisory committee consisting of three faculty members, one of whom will be from a university other than that of the chairman of the student's advisory committee. No specific undergraduate program is required in preparation for the MPA program. It is anticipated that students will come from widely differing academic preparations.

Some coursework in Humanities and Social Science (Political Science, Sociology, Economics and Psychology) is essential to the foundation of the MPA program for all students; also a student must provide evidence of proficiency in skills of statistics, data processing, or accounting, either through undergraduate preparation or previous work experience. Deficiencies in these areas will be made up outside of the required curriculum. A student may be required to remove other deficiencies related to specified areas of emphasis in the MPA program, as determined by the inter-University Committee.

#### Specific Admission Requirements for Applicants

All applicants to the MPA program at Boise State University must meet the following requirements prior to enrollment in MPA courses:

1. Possession of a baccalaureate degree from an accredited institution.
2. Demonstration of satisfactory academic competency by attaining an overall GPA of 2.75 and recommendation for admission by the Department of Political Science. Students with a lower GPA may be admitted on provisional status on recommendation of the Department of Political Science with approval of the Graduate College. Final determination of the retention in the MPA program of a student with Provisional Status will be made after the completion of 12 credits of approved study, with the general requirements of a grade of B or better in the coursework taken.
3. Receipt of 3 letters of personal evaluation from individuals qualified to evaluate the applicant’s academic potential. Evaluators may include current or former employers, as well as professors. The letters are to be addressed as follows: Chairman, Department of Political Science, Boise State University, Boise, Idaho 83725.

4. Submission of a brief statement by the applicant indicating career objectives and the area of emphasis to be undertaken in the MPA program.

5. Completion of the following prerequisite courses in undergraduate preparation or their equivalent (applicable to all students applying for admission to the MPA program): American National Government PO 101 3
State, Local Government PO 102 3
Introduction to Public Administration PO 303 3

At least three credits in each of the following areas:
Sociology
Economics
Psychology

At least three credits in one of the following areas:
Accounting
Data Processing
Social Statistics

For those students selecting Human Services Administration as their area of emphasis for specialized preparation in Public Administration, at least 9 credits in Sociology.

For those students selecting Criminal Justice Administration as their area of emphasis for specialized preparation in Public Administration, at least 9 credits in Criminal Justice.

Students who are deficient in any of the prerequisites indicated above must remove these deficiencies prior to enrollment in MPA graduate level courses for credit.

The student may be required to remove other deficiencies as determined by the Inter-University Committee established for administrative coordination of the MPA program.

An applicant planning to achieve an MPA degree at Boise State University must be accepted by the Graduate College at Boise State University. (The student is advised to consult the appropriate section of the Catalog for any special requirement or conditions prescribed by the Graduate College.)

The Graduate Degree Program

The MPA degree may be achieved through the successful completion of at least 30 semester credit hours of approved coursework plus 6 credits of public service internship. Eighteen credit hours must be completed in courses selected from prescribed “core areas” with 12 additional credit hours completed in designated optional areas of emphasis. Students may follow a thesis or non-thesis option in pursuing the MPA. The thesis counts as 6 credits toward completion of the degree in lieu of coursework selected from the student’s area of emphasis. All MPA candidates must complete a final examination. Those following the thesis option will complete an oral examination covering the thesis and program coursework. The non-thesis option requires a written and oral examination over program coursework.

The academic program of each student must be approved by the MPA advisory committee and must satisfy the general requirement of an integrated program designed to meet career objectives of the student in Public Administration.

Core and Optional Area Requirements: The specific course requirements of the MPA program are set forth in a list of courses which have been approved by the Inter-University Committee. This list is available through each of the cooperating universities. Courses are available at each institution in the “core areas.” The optional “areas of emphasis” and expansion of available courses as additional resources become available and the cooperative relationships among the three universities are further developed. The listing of “areas of emphasis” represents a collective enumeration of all optional areas which currently are available or are planned for future development at all of the cooperating universities. (A description of these “areas of emphasis,” which are presently operational at each institution and admission forms to the MPA program are available through the Chairman of the Department of Political Science at Boise State University, the Chairman of the Department of Political Science at Idaho State University, or the Chairman of the Department of Political Science at the University of Idaho.)

Core Area Requirements: At least 18 semester credit hours of coursework required on the designated core areas are to be selected in accordance with the following bases of selection:

1. At least one course selected from each of the following core areas:
   a. Administrative Theory, Organization, and Behavior: Organization Theory & Bureaucratic Structure PO 487G
   c. Public Policy and Policy Analysis: Public Policy Formulation & Implementation PO 520
   d. Administrative Law: Administrative Law PO 467G
   e. The Executive & the Administrative Process: The Role of the Executive in Policy Making PO 530
   f. Intergovernmental Relations: Intergovernmental Relations PO 469G
   g. Community & Regional Planning: (No course offering yet provided at BSU)
   h. Comparative Public Administration & Planning Systems: Comparative Public Administration PO 465G

Optional “Areas of Emphasis”

NOTE: Some of the courses provided in designated 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, 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:

Any of the following 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: Administrative Theory, Organization & Behavior PO 580, Public
Management Techniques PO 581, Public Policy & Policy Analysis PO 582, Administrative Law PO 583, The Executive & the Administrative Process PO 584, Intergovernmental Relations PO 585, Community & Regional Planning PO 586, Comparative Public Administration and Planning Systems PO 587.

Arrangements may also be made in the following courses: Thesis PO 593, Reading and Conference PO 595, Directed Research PO 596, Conference/Workshop PO 599.

b. Community, State and Regional Planning: (No course offering yet provided at BSU in the MPA program)


d. Public Health Administration: (Planned, but no course offering yet provided at BSU in the MPA program.)
e. Environmental and Natural Resources Administration: (No course offering yet provided at BSU in the MPA program.)
f. Local Government Administration: (Planned for future implementation as an area of emphasis at BSU.)
g. Public Finance, Budgeting, and Administrative Management: (Planned for future implementation as an area of emphasis at BSU.)

Course Offerings

See page 19 for definition of course numbering system

PO POLITICAL SCIENCE 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.
PO 467G ADMINISTRATIVE LAW (3-0-3)/F/S.
PO 469G INTERGOVERNMENTAL RELATIONS (3-0-3)/F/S.
PO 487G ORGANIZATIONAL THEORY AND BUREAUCRATIC STRUCTURES (3-0-3)/F/S.

Graduate

PO 510 FISCAL PROCESSES AND PUBLIC BUDGETING PROCESS (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.

PO 511 PROGRAM EVALUATION AND QUANTITATIVE ANALYSIS (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.

PO 520 PUBLIC POLICY FORMULATION AND IMPLEMENTATION (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 administration.

PO 530 ROLE OF THE EXECUTIVE IN POLICY MAKING (3-0-3)/F/S. The American executive: president, governor, and mayor. Consideration given to changes in institutional settings and role conceptions. Role of the executive in policy-making process. Sources of strength and weakness and strategies used to enact their programs. Problems of relationship of executive to bureaucracy.

SELECTED TOPICS (3-0-3). To be offered as staff availability permits:

PO 580 ADMINISTRATIVE THEORY, ORGANIZATION AND BEHAVIOR
PO 581 PUBLIC MANAGEMENT TECHNIQUES
PO 582 PUBLIC POLICY AND POLICY ANALYSIS
PO 583 ADMINISTRATIVE LAW
PO 584 EXECUTIVE AND ADMINISTRATIVE PROCESS
PO 585 INTERGOVERNMENTAL RELATIONS
PO 586 COMMUNITY AND REGIONAL PLANNING
PO 587 COMPARATIVE PUBLIC ADMIN AND PLANNING SYSTEMS

PO 590 PUBLIC SERVICE INTERNSHIP (variable credit). Arranged as field experience for those students with no prior experience in governmental or other organizational assignments. Such internships will be established and arrangements made for placement through the chairman of department of political science.

PO 593 THESIS (3 credits/semester). Selection of approved topic in public administration for major preparation and defense through consultation with major advisor.

PO 595 READING AND CONFERENCE (1-2 credits). Directed reading on selected materials in public administration and discussion of these materials, as arranged and approved through major advisor.

PO 596 DIRECTED RESEARCH (1-3 credits). Special projects undertaken by the MPA student as advanced tutorial study in specialized areas according to the needs and interests of an individual student. Course embodies research, discussions of the subject matter and procedures with a designated professor and a documental paper covering the subject of the independent study.

PO 599 CONFERENCE OR WORKSHOP (1 credit). Conferences or workshops covering various topics in public administration may be offered on an irregularly scheduled basis, according to student interest and staff availability. No more than 3 credits provided through conferences or workshops can be applied toward the MPA.

CR CRIMINAL JUSTICE ADMINISTRATION COURSES

Graduate

CR 510 SPECIAL PROBLEMS IN CORRECTIONAL TREATMENT (3-0-3)/F/S. Analysis of contemporary problems in the correctional programs of American society.

CR 511 SPECIAL PROBLEMS OF THE JUVENILE AND YOUTHFUL OFFENDER (3-0-3)/F/S. Examination of current processes in juvenile justice, rehabilitation programs, probation and utilization of community-based resources. Emphasis will be placed on preventive rehabilitative measures at the local level.

CR 580 SELECTED TOPICS—CRIMINAL JUSTICE ADMINISTRATION (3-0-3)/F/S. Examination, evaluation and research regarding contemporary problems in the criminal justice system. Students will be required to do extensive reading and inquiry into special areas of concern and interest.

CR 595 READING AND CONFERENCE (1-2 credits). Directed reading on selected materials in criminal justice administration and discussion of these materials, as arranged and approved through major advisor.

CR 599 SEMINAR IN CRIMINAL JUSTICE ADMINISTRATION (2-0-2)/F/S. Intensive analysis of selected subject areas of the system of criminal justice administration. PREREQ: CR 301.

SO SOCIOLOGY COURSES

Graduate

SO 501 THE SOCIOLOGY OF EDUCATION (3-0-3)/F/S. A sociological analysis of the American school system, its problems and the social forces that shape the schools in contemporary society.

SO 510 CONFLICT AND CHANGE IN SOCIO-CULTURAL SYSTEMS (3-0-3)/F/S. Intensive examination of social and cultural change as related to technological evolution, value changes and the resultant conflict in society.

SO 511 THE SOCIOLOGY OF AGE GROUP STRATIFICATION (3-0-3)/F/S. Examination of the sociological effect of age as a major dimension of social organization and stratification in American society and Western civilization. The course will consider the effects of changing patterns of longevity, resultant changes in age distribution of the population as these factors affect social, economic, and political systems.

SO 512 SOCIAL DEMOGRAPHY (3-0-3)/F/S. Techniques and methods for analyzing population growth, trends, and movement as reflected in actuarial data, birth-death rate; mobility, fertility and fecundity as these affect the societal patterns, especially planning for human service programs.

SO 580 SELECTED TOPICS—HUMAN SERVICES ADMINISTRATION (3 credits).

SO 595 READING AND CONFERENCE (1-2 credits). Directed reading on selected materials in human services administration and discussion of these materials as arranged and approved through major advisor.

Graduate Program, College of Arts and Sciences

Master of Science in Raptor Biology

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, operated by The Peregrine
Fund, Inc., affords students a unique opportunity to study the techniques, physiology and ecology of the 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.

The raptor biology program, centered in the Biology Department at Boise State University, also involves the cooperation of faculty at Idaho State University, the University of Idaho, the World Center for Birds of Prey, the U.S. Bureau of Land Management, the U.S. Fish and Wildlife Service, and the Idaho Department of Fish and Game. Each graduate student's program is individualized; and, depending upon the thesis topic and the recommendation of the thesis committee, a student may be required to take select courses at Idaho State University or the University of Idaho. Every effort will be made to smoothly facilitate those requirements. While not required of all M.S. students, some students' programs may benefit greatly by a semester spent at Idaho State University or the University of Idaho. The prospective graduate student should consult the Graduate College section of the Boise State University catalog for general information for graduate students.

Admission Requirements

1. Submit a graduate application along with the $10.00 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.

Degree Requirements

Once accepted, the Biology Graduate Studies Coordinator, in consultation with the student and the student's major professor (thesis advisor), selects two additional faculty to comprise the student's thesis committee. This committee reviews the student's program and thesis. The Biology Department graduate admissions committee determines if there are any specific academic deficiencies that the student must meet in addition to the M.S. degree requirements.

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 at least three (3) weeks before commencement.

Course List (BSU)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>Applied and Environmental Microbiology B 415G</td>
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<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>
</tbody>
</table>

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 major professor along with a one-page abstract that is distributed to the other two thesis 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 19 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.

B BIOLOGY

B 415G APPLIED AND ENVIRONMENTAL MICROBIOLOGY (3-3-4X).

BT BOTANY

BT 330G MYCOLOGY (3-3-4X).

Z ZOOLOGY

Z 305G ENTOMOLOGY (2-4-4X).

Z 341G ORNITHOLOGY (2-3-3X).

Z 409G GENERAL AND COMPARATIVE PHYSIOLOGY (3-3-4X).

Z 421G MAMMALOLOGY (2-3-3X).

Graduate

B BIOLOGY

B 501 BIOMETRY (4-403X). An application of statistical methods to problems in the biological sciences. Basic concepts of hypothesis testing; estimation and confidence intervals; t-tests and chi-square tests. Linear and nonlinear regression theory and analysis of variance. Techniques in multivariate and non-parametric statistics. PREREQ: M 111 or equivalent, or PERM/INST.

B 502 POPULATION AND COMMUNITY ECOLOGY (3-0-3X). The structure of populations and communities. Competition, predation, life history strategies, demography, population regulation, and species diversity are examined from experimental and theoretical perspectives. PREREQ: B 423 or equivalent, or PERM/INST.

B 506 RAPTOR ECOLOGY (3-0-3X). Theoretical ecology as applied to raptors of prey. Strategies of reproduction, habitat selection, foraging and spacing; theory of competition and predator-prey interactions; niche theory, and community structure; raptor management. PREREQ: B 423 or equivalent, or PERM/INST.
School of Vocational Technical Education

Dean: Tom Denison, Ph.D.

- Business/Special Programs Division:
  Barbara Egland, Division Manager.
  Instructors: Business and Office Education: Bounds, Butler, Carlton, Metzgar, Williamson;

- Health/Services Division:
  Bonnie J. Sumter, Division Manager.
  Child Services Management: Gourley, Lingenfelter; Culinary Arts: Hickman, Kulm, Slough; Dental Assistant: Imbs, Macinnis, Dr. Gundell; Horticulture Service Technician: Moen, Oyler; Practical Nursing: Baichtal, Borman, Dallas, Heist, McCullough, Towle; Respiratory Therapy Technician: Ferguson, Nuerenberg, Voigt; Surgical Technology: Curtis.

- Technical Division:
  Gary Arambarri, Division Manager.

- Canyon County Division:
  Charles R. Tillman, Division Manager.
  Instructors: Agricultural Equipment Technology: Gaines; Business and Office Occupations: Bounds; Electrical Lineworker: McKie; Professional Truck Driving: Flaming; Refrigeration, Heating and Air Conditioning: Messick; Wastewater Technology: Hodge.

- Department Chairpersons:
  • Adult Basic Education Learning Center: Elaine Simmons
  • Vocational Student Services: Bobbi K. Nothern
  • Vocational Counselors: Daigle, Nothern, Quinowski

School of Vocational Technical Education Emeriti:
Buchanan, Callies, Fleshman, Fuehrer, Hager, Hoff, King, Krigbaum, Lamborn, Leigh, 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.
2. Boise State University application—Vocational Student Services Office. $10.00 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.

A limited number of students can be accepted in each program so all admission requirements should be completed early. 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 are completed.

Pre-Technical Instruction
Free tutorial assistance for reviewing math, English 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.

Advisory Service
Elaine Simmons, Department Head

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 16 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.
- 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)
   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.

   b. Technical Support Course work: 10-14 credit hours or equivalent clock hours.

2. General Education Requirements: 12 credit hours or equivalent clock hours.
   a. Six credits in the area of Communication Skills; the remaining credits in economics, industrial relations, or human relations.
   Example: Mathematics/Physical Science/Etc.

   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 Arts and Sciences 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.

Bachelor of Applied Science
The College of Arts and Sciences in conjunction with the School of Vocational Technical Education offers a Bachelor of Applied Science degree. The Bachelor of Applied Science is designed to build upon the Associate of Applied Science Degree (AAS) or selected Associate of Science (A.S.) degrees.
School of Vocational Technical Education

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 Course work ........... 42 credits
- General Education ............................................. 12 credits

TOTAL 54 CREDITS

Exceptions to the above must be reviewed by the Dean or Associate Dean of the School of Vocational Technical Education for a determination regarding eligibility for admission. Credit for prior learning will be determined in accordance with prevailing institutional policy.

Recommendations for admission into the Bachelor of Applied Science Degree must be obtained from the School of Vocational Technical Education. The interested student must then be formally admitted into the Bachelor of Applied Science degree program by the Associate Dean of the College of Arts and Sciences.

Apprenticeship, Trade Extension and Job Upgrading

Managers: Gary Arambarri, Barbara Egland, Bonnie Sumter, Charles Tillman.

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 workmen receiving on-the-job instruction in such vocations as sheetmetal, carpentry, plumbing, welding, electricity, electronics, typing, automobiles, 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.

SUBJECTS

<table>
<thead>
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<tbody>
<tr>
<td>AE 101-102 Agricultural Equipment Lab</td>
<td>6</td>
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<tr>
<td>AE 151-152 Agricultural Equipment Theory</td>
<td>10</td>
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<tr>
<td>AE 262 Occupational Relationships</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>16</td>
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</tbody>
</table>

Course Offerings

See page 19 for definition of course numbering system


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, mild steel, 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 satisfactorily completion of all skills in the eleven month program.

SUBJECTS

<table>
<thead>
<tr>
<th>Fall</th>
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<th>Summer</th>
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<tr>
<td>Auto Body Lab AB 121-122-123</td>
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<td>10</td>
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<tr>
<td>Auto Body Theory AB 141-142-143</td>
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<tr>
<td>Occupational Relationships AB 262</td>
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</tbody>
</table>

Course Offerings

See page 19 for definition of course numbering system

AB AUTO BODY

AB 121-122-123 AUTO BODY LABORATORY (0-25-10)/(F)(S)/(0-20-7)/(SU). The purpose of these courses is to develop the skills needed by an auto body repairman. Subjects covered include: orientation, safety rules, shop housekeeping, welding, painting, metalworking, plastic body filling, advanced painting processes, frame alignment, glass and panel replacement, bench repair systems.

AB 141-142-143 AUTO BODY THEORY (10-0-7)/(F), (0-5)/(S), (10-0-5)/(SU). This course correlates with the auto body laboratory course. The theory of auto body repair and painting is covered. Mathematics and science necessary for related to the trade are provided.

AB 262 OCCUPATIONAL RELATIONS (2-0-2X5). 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.

Automated Industrial Technician Program

Associate of Applied Science

This double-major option combines the Industrial Mechanics/Automation and Welding/Metal Fabrication curriculums. The required general education coursework for the AAS Degree are CM 111 Fundamentals of Speech Communication (3 credits) and 6 credits from the areas of Economics, and/or human relations.

SUBJECTS

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<tr>
<td>SEM</td>
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<td>Maintenance Welding Technology IM 101</td>
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<td>Maintenance Machine Fundamentals IM 102</td>
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<td>Electro-Mechanical Systems IM 110-111</td>
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<tr>
<td>Basic Fluid Power Operations IM 121-122</td>
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<td>Industrial Mechanical Laboratory IM 131-132</td>
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<td>Industrial Technology Communications IM 162</td>
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</table>

See Industrial Mechanics/Automation for detailed course descriptions.

SUBJECTS

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tbody>
<tr>
<td>Welding Laboratory W 101-102</td>
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<tr>
<td>Welding Lecture/Laboratory W 103</td>
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<tr>
<td>Welding Theory W 151-153</td>
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<tr>
<td>Blueprint Read &amp; Layout W 121-122</td>
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<tr>
<td>Welding Communication W 111</td>
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<tr>
<td>Occupational Relationships W 262</td>
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</tbody>
</table>
### Auto Mechanics—Eleven Month Program

**Certificate of Completion**

**Instructors:** Lee Hall, Charles Mikesell

The program is designed to provide students with classroom and laboratory experiences that will prepare them for employment in new car dealerships or independent garages. The proper use of diagnostic equipment and shop machine tools are emphasized.

**SUBJECTS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Subject Title</th>
<th>Fall</th>
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<th>Summer</th>
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<td>AM 102</td>
<td>Automotive Service Cooling</td>
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<td>AM 110</td>
<td>Automotive Brakes</td>
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<td>AM 115</td>
<td>Front End &amp; Alignment</td>
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<td>AM 125</td>
<td>Automotive Electrical Systems</td>
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<td></td>
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<td>AM 130</td>
<td>Engine Performance</td>
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<td>AM 135</td>
<td>Engine Repair</td>
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<td>AM 140</td>
<td>Manual Trans. &amp; Differ.</td>
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<td>AM 150</td>
<td>Emission Systems</td>
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<td>AM 155</td>
<td>Advanced Engine Performance</td>
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<td>AM 235</td>
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</tbody>
</table>

**Course Offerings**

See page 19 for definition of course numbering system

**AM AUTO MECHANICS**

AM 108 BASIC AUTOMOTIVE MECHANICS (1-1-1)(F). 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 (2-2-2)(F). 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 (4-2-2)(F). 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 (1-4-2)(F). 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 (1-1-1)(S). 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 (4-4-5)(F). This course covers identification and use of basic automotive electronic test equipment, basic electricity, basic automotive electronic theory, testing and rebuilding of starter motors, electronic ignition systems. The theory of Computer Control Command systems will also be covered.

AM 130 ENGINE PERFORMANCE (4-4-5)(F). 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 (3-3-3)(S). 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 (4-3-4)(S). This course introduces students to transmission and differential design, proper disassembly techniques, parts evaluation and proper assembly.

AM 145 EXHAUST SYSTEMS (1-1-1)(S). Students will learn evaluation of exhaust systems and replacement or repair of faulty system components. PREREQ: AM 120.

AM 150 EMISSION SYSTEMS (1-4-2)(S). This course prepares the student in the principles and laws of various automotive emissions systems to include the function, service and repair/ replacement of components, diagnostic techniques, and compliance with emission standards.

AM 175 AUTOMATIC TRANSMISSION (3-6-4)(S). This course teaches the fundamentals of automatic transmissions and design features including servicing, diagnosis, troubleshooting and proper removal, adjustment, installation, and testing procedures.

AM 180 INTRODUCTION TO MICROCOMPUTERS (1-0-1)(S). Introduces the student to microcomputer skills related to the automotive service field.

AM 190 AUTOMOTIVE HEATING AND AIR CONDITIONING (1-4-2)(S). This course introduces students to the principle 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 (3-6-4)(S). The student will be taught the use of advanced diagnostic equipment to troubleshoot and repair automobile performance, with emphasis placed on electrically related problems.

AM 235 NIASE CERTIFICATION (2-3-2)(SU). 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 (2-0-2)(S). This course teaches job searching, proper completion of job application blanks, job keeping skills, resume and curriculum vital development, and telephone techniques.

### Business & Office Education—Nine Month or Two Year Program

**Certificate of Completion**

**Instructors:** Karen Bounds, Doris Butler, Janet Carlton, Barbara Eiland, Wanda Metzgar, Marge Williamson

The Business and Office Education Program is designed to meet the needs of students as they prepare to enter employment 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 one of the following options: Secretary, Word Processing; or Bookkeeper.

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. Approved cooperative education in an office and/or competency testing may be substituted for coursework with special permission of the program head and division manager.

A minimum grade of 'C' is required in all coursework to receive a Certificate of Completion or Associate of Applied Science degree.

**CORE FRESHMAN CLASSES**

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Fall</th>
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</thead>
<tbody>
<tr>
<td>OF 105</td>
<td>Business Math</td>
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<td>OF 109</td>
<td>Business English</td>
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<td>OF 119</td>
<td>Proofreading and Spelling</td>
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<tr>
<td>OF 106</td>
<td>Keyboarding</td>
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<td>OR</td>
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<tr>
<td>OF 154</td>
<td>Basic Office Procedures</td>
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<td>OF 107</td>
<td>Business Writing</td>
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<td>OF 203</td>
<td>Word Processing</td>
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<td>OF 156</td>
<td>Intermediate Typing</td>
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<td>OF 157</td>
<td>Advanced Typing</td>
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<td>OF 155</td>
<td>Record Keeping</td>
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<td>OF 153</td>
<td>Job Seeking Skills/Career Planning</td>
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</table>

**Associate of Applied Science Degree**

**Business and Office Education (Bookkeeper Option)**

This option is designed for the student to obtain a basic knowledge of the business world and to develop the necessary skills to competitively perform the duties required of this particular job.

Upon successful completion of this option, the learner will not only possess the necessary skills and knowledge to enter the world of work as a bookkeeper, but will also have developed basic skills in computerized bookkeeping, word processing, data base management, proofreading and spelling, business English, and the use of spreadsheets.
Course Offerings

See page 19 for definition of course numbering system

OF 015 OFFICE SKILLS PRACTICUM—WORD PROCESSING (0-2-0) (F/S). Students will apply word processing knowledge and training in laboratory practice two hours weekly.

OF 016 OFFICE SKILLS PRACTICUM—BOOKKEEPING (0-2-0) (F/S). Students will apply bookkeeping knowledge and training in laboratory practice two hours weekly.

OF 105 BUSINESS MATH (3-4-3) (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 106 KEYBOARDING (3-4-4) (F/S). Beginning class introducing the keyboard and basic typing skills. Emphasizes formatting business correspondence, tables and manuscripts. A speed of 30 WPM should be attained.

OF 107 BASIC OFFICE PROCEDURES (3-2-3) (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, and introduction to machine transcription. PREREQ: Demonstrated proficiency in typing.

OF 108 BOOKKEEPING I (3-4-4) (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.

OF 109 BUSINESS ENGLISH (2-4-3) (F/S). 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 115 PROOFREADING AND SPACING (2-4-3) (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 125 BEGINNING SHORTHAND (4-4-5) (F/S). A beginning course in Gregg Shorthand (Series 90). Course includes the alphabet, brief forms, word beginnings and endings, phrasing, and word building principles learned through reading, writing, and taking dictation of extensive connected material. PREREQ: Demonstrated proficiency in typing or current enrollment in Keyboarding.

OF 151 INTERMEDIATE SHORTHAND (4-4-5) (F/S). Application of shorthand theory to construct new outlines rapidly from dictation. Emphasizes development of typewritten transcription skills and mailable letter skills. PREREQ: Of 125 or advanced placement through proficiency exam.

OF 152 BOOKKEEPING II (3-4-4) (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 106.

OF 153 JOB SEEKING SKILLS/CAREER PLANNING (2-4-3) (F/S). Will help students analyze their job needs and skills and prepare them to present these needs and skills to prospective employers in a professional manner. Emphasizes: self-analysis, researching employers, resume and cover letter, effective interview techniques, and career planning.

OF 154 INTRO TO INFORMATION PROCESSING (3-0-3) (F/S). An introduction to the fundamentals of computing and information processing for students so that they may understand what a computer is, how it operates, and when a computer should be applied to the solution of personal and business problems. OF 155 RECORD KEEPING (2-4-3) (F/S). Students 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.

OF 156 INTERMEDIATE TYPING (3-4-4) (F/S). Experience in typing letter styles, manuscripts, tabulations, memorandums and business forms. Proofreading skills are stressed. PREREQ: Of 106 or acceptable performance on entrance test AND keyboarding speed of at least 30 WPM.

OF 157 ADVANCED TYPING (3-4-4) (F/S). Stresses speed, accuracy and production work, practice in making decisions concerning formatting all types of documents with emphasis on legibility. PREREQ: Of 156 or acceptable performance on entrance test AND keyboarding speed of at least 30 WPM.

OF 158 MACHINE TRANSCRIPTION (2-4-3) (F/S). Emphasis on the development of correct techniques, speed, and accuracy in the transcription of letters, memos, minutes, itineraries, and reports from recorded media. PREREQ: Typing speed of 35 WPM, Of 109, Of 119.

OF 159 BUSINESS WRITING (2-4-3) (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 165 BASIC MEDICAL TERMINOLOGY, ANATOMY AND PHYSIOLOGY (2-0-2(F/S)). This course provides intensive study of medical terminology, anatomy and physiology, including the following: introduction to the structure and function of each body system; description of diseases and defects affecting each body system; related diagnostic tests, surgeries, and medications; practice in pronunciation, spelling, and abbreviation of all terminology.

OF 166 INTRODUCTION TO MEDICAL TRANSCRIPTION (4-0-1F(S)). Techniques of machine transcription; application exercises; transcription of actual medical dictation; overview of medical transcription careers. PREREQ: Completion of OF 165 or equivalent experience.

OF 167 BASIC PRINCIPLES OF LAW FOR MEDICAL TRANSCRIPTIONISTS AND MEDICAL OFFICE PERSONNEL (1-4-1F(S)). Course presents basic principles of law for the hospital or office-based medical transcriptionist and medical office personnel. Includes confidentiality of medical records, informed consent to treatment, and understanding the basics of the legal system as it relates to medical malpractice claims.

OF 201 SPREADSHEET I (1-4-2F(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. PREREQ: OF 201.

OF 202 INTRO TO DATA BASE MANAGEMENT (1-4-2F(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. PREREQ: OF 201.

OF 203 WORD PROCESSING I (2-4-3F(S)). Students will create, store, revise, format, and print letters, memos, and simple tables on dedicated word processors, microcomputers, and computers. Must complete the course with C or better to continue. PREREQ: Typing speed of 40 WPM.

OF 204 COMPUTERIZED BOOKKEEPING (4-4-5F(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. Included will be accounts payable, accounts receivable, payroll, subsidiary ledgers and journals, and the preparation of financial statements. PREREQ: OF 108, OF 152.

OF 205 ADVANCED SHORTHAND (4-4-5F(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 206 COMPUTER BUSINESS APPLICATIONS (2-3-3F(S)). This course provides a basic exposure to the use of computers in the business world. Emphasis will be on software, hardware, data entry, data base management, and electronic spreadsheets. PREREQ: Keyboarding skill of 40 WPM.

OF 251 RECORDS MANAGEMENT PROCEDURES (2-4-3F(S)). A study of the principles and procedures of records management, including creation, retention, processing, maintenance, protection, transfer, and disposal of records.

OF 252 APPLIED BUSINESS COMMUNICATIONS (2-4-3F(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 studying and applying principles of effective writing. Emphasis on report writing with research. Concentrates on gathering and writing the information. PREREQ: OF 159.

OF 253 FUNDAMENTALS OF SUPERVISION (2-4-3F(S)). Introduction to fundamental principles of first-line supervision; emphasizing the following: Role/responsibilities of the supervisor; training, motivating and developing employees; problem-solving and time management; effective communication; assertiveness and conflict management; performance evaluation.

OF 254 SPREADSHEET II (2-4-4F(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, payroll, amortization and depreciation schedules.

OF 255 WORD PROCESSING II (2-4-3F(S)). Continuation of Word Processing I with special text applications such as footnotes, headers, outlines, and merging. PREREQ: OF 203.

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.

Course Offerings

See page 19 for definition of course numbering system

BM BUSINESS MACHINE TECHNOLOGY

BM 111-112 COMMUNICATION SKILLS (3-0-3F(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 (5-17-9F). This is a hands on on-the-job lab course in which the student is taught basic mechanical applied theory. (22 clock hours per week).

BM 156 BUSINESS MACHINE TECHNOLOGY (5-15-9F). This is a hands on shop 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 (4-4-4F(S)). Deals with basic electronics including properties of electronic components (5 clock hours per week).

BM 255-256 ADVANCED BUSINESS MACHINE TECHNOLOGY (7-17-13F(S)). This is a hands on on-the-job 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 (7-0-7F(S)). 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, Joan Lingenfelter

This program is planned for people interested in working with children as an assistant in private, play grounds, camps, day care centers, nurseries, kindergartens, and child development centers.

Day Care Supervisor—Two Year Program

Associate of Applied Science Degree

Graduates will be trained to assist with or operate a day care center 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, provide food, supervise workers, and manage resources in a nursery school setting. Completion of the program defined as Child Care Assistant is a prerequisite to the supervisor level program.

Day Care Assistant

1st 2nd

<table>
<thead>
<tr>
<th>Course Offerings</th>
<th>1st</th>
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<tbody>
<tr>
<td>Business Machine Technology</td>
<td>BM 155-156</td>
<td>BM 157-158</td>
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<tr>
<td>BM 111-112 Basic Electronic Theory</td>
<td>BM 113 Customer Relations</td>
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<tr>
<td>BM 111-112 Communication Skills</td>
<td>BM 113 Customer Relations</td>
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<tr>
<td>BM 155-156 Business Machine Technology</td>
<td>BM 157-158 Basic Electronic Theory</td>
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<tr>
<td>BM 255-256 Advanced Business Machine Technology</td>
<td>BM 271-272 Advanced Electronic Theory</td>
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<td>BM 271-272 Advanced Electronic Theory</td>
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TOTAL 18 18
School of Vocational Technical Education

Day Care Teacher/Supervisor

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<tr>
<th>Course Offerings</th>
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<tbody>
<tr>
<td>Advanced Child Care CC 255</td>
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<tr>
<td>Intro to Kindergarten Curriculum CC 256</td>
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<tr>
<td>Infant Care CC 257</td>
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<tr>
<td>Child Care Center Management CC 232</td>
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<tr>
<td>Fam &amp; Comm involvement with Child CC 252</td>
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<tr>
<td>Occupational Relationships CC 261</td>
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<tr>
<td>Feeding Children CC 241-242</td>
<td>3</td>
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<td>Child Care Center Supervision CC 201-202</td>
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<tr>
<td>Contract Pract in Early Child Superv CC 225-226</td>
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<td>TOTAL</td>
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</table>

CC 101-151 INTRODUCTION TO CHILD DEVELOPMENT (3-0-3) FS. Basic principles of child growth and 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 (0-4-1) FS. Individual contract arrangement involving students, instructor and cooperating community agency to gain practical experience in out-of-campus settings. The student will visit, observe, and participate in community child care settings.

CC 133-136 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 (2-0-2) FS. 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, working directly with the children; attend staff meetings; plan and carry out a variety of daily activities and become acquainted with curriculum, classroom arrangement, schedules, child guidance, staff responsibilities.

CC 201-202 CHILD CARE CENTER SUPERVISION (1-12-4) FS. With instructor supervision, students will assume responsibility of lab preschool and plan curriculum activities, supervise staff, plan daily and weekly schedules and study techniques for child evaluations and parent conferences. Emphasis is placed on child guidance techniques and curriculum development. PREREQ: CC 181-182.

CC 225-226 CONTRACTED PRACTICUM IN EARLY CHILDHOOD PROGRAMS (0-8-2) FS. A course designed to meet specific needs of the student as determined by both the student and instructor. A practical application of knowledge and skills in community child care settings. Individual contract arrangement involving student, instructor and cooperating agency to gain practical experiences in off-campus settings. PREREQ: CC 125-126.

CC 232 CHILD CARE CENTER MANAGEMENT (3-3-3) S. Introduction to the business practices in the operation of a child care center. Includes business arithmetic, record keeping, purchasing of supplies and equipment, and employer-employee relationships. Also includes licensing procedures required for day care centers.

CC 241-242 FEEDING CHILDREN (3-0-3) FS. Nutritional requirements of preschool children in child care centers. Students plan, purchase, prepare and serve nutritious snacks and meals to children in the CC lab. Also emphasized will be handling food allergies, economics of good nutrition and the development of positive mealtime attitudes.

CC 252 FAMILY AND COMMUNITY INVOLVEMENT WITH CHILDREN (3-0-3) FS. History and dynamics of family interaction; review of cultural life styles. Emphasis will be placed on the need for establishing effective relationships with parents of children in child care centers and the community resources available to both parents and the center.

CC 255 ADVANCED CHILD CARE (3-0-3) FS. A review of the history of child care and present day child care facilities in the U.S. and locally. Also covered in class are classroom management, caring for exceptional children and qualifications of people caring for children in group situations. PREREQ: CC 101-151.

CC 256 INTRODUCTION TO KINDERGARTEN CURRICULUM (2-4-2) FS. Kindergarten curriculum theory and practices are presented so that the student has a working knowledge of the kindergarten classroom. PREREQ: CC 255.

CC 257 INFANT AND TODDLER CARE (2-0-2) FS. Total care of infants and toddlers in group day care homes and centers. Besides physical care emphasis is also placed on the emotional and social nurturing of infants and toddlers. PREREQ: CC 101-151.

CC 261 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.

Culinary Arts Program

Certificate of Completion—1 Year

Elementary Diploma—2 Years

Instructors: Vernon Hickman, Julie Kulm, Manley Slough

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.

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

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<tr>
<th>Course Code</th>
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<tr>
<td>CA 102</td>
<td>Culinary Skills Development</td>
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<tr>
<td>CA 103</td>
<td>Introduction, Safety, Health</td>
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<tr>
<td>CA 104</td>
<td>Introductory Baking</td>
<td>3</td>
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<tr>
<td>CA 105</td>
<td>Cost Controls</td>
<td>1</td>
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<tr>
<td>CA 106</td>
<td>Product Identification</td>
<td>1</td>
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<tr>
<td>CA 107</td>
<td>Storeroom</td>
<td>1</td>
</tr>
<tr>
<td>CA 109</td>
<td>Legal Implications/Culinary Arts</td>
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<tr>
<td>CA 112</td>
<td>Introductory Hot Foods</td>
<td>3</td>
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<tr>
<td>CA 113</td>
<td>Pantry, Basic Garde Manger</td>
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<tr>
<td>CA 114</td>
<td>Communications Skills</td>
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SECOND SEMESTER

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<tr>
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<td>CA 116</td>
<td>Meat Identification &amp; Fabrication</td>
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</tr>
<tr>
<td>CA 117</td>
<td>Stewarding</td>
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CA 118 Charcuterie (Sausage Making) ........................................... 1
CA 119 Supervisory Development ................................................. 1
CA 121 American Regional Cookery ............................................ 1
CA 122 Fish Cookery .................................................................. 1
CA 123 Communication Skills II .................................................. 3
CA 262 Occupational Relations .................................................... 2
CA 124 Kitchen Laboratory .......................................................... 5

TOTALS 17

THIRD SEMESTER
CA 202 Advanced Culinary Skills ................................................. 1
CA 204 Advanced Baking ............................................................. 1
CA 205 Advanced Cost Controls-Management Systems ............... 1
CA 206 Classical Baking ............................................................. 1
CA 207 Wine Appreciation ......................................................... 1
CA 208 Beverage Control Systems .............................................. 1
CA 209 Menu & Facilities Planning .............................................. 1
CA 212 International & Oriental Cuisine ..................................... 1
CA 224 Laboratory Kitchen ........................................................ 6
CM 111 Funds of Speech ............................................................. 3

TOTALS 17

FOURTH SEMESTER
CA 213 Advanced Garde Manager ............................................. 1
CA 215 Classical Cuisine ......................................................... 1
CA 216 Banquet Organization ..................................................... 1
CA 217 Dining Room a la Carte Preparation .............................. 1
CA 218 American Bounty a la Carte Foods ............................... 1
CA 224 Kitchen Laboratory ........................................................ 6
CA 216 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.

Course Offerings

See page 19 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: sauteing, browning, 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 106 PRODUCT IDENTIFICATION (1-0-1)(F/S). Introduction to the food products used in the food service/hospitality industry. Special emphasis is placed on the characteristics, quality factors, availability, storage and use of fruits, vegetables and cheese.

CA 107 STOREROOM (1-0-1)(F/S). Students learn how to staff an operating storeroom and participate in receiving, storing and issuing of merchandise. Emphasis is on proper control and reporting procedures, with preparation of daily, weekly and monthly reports. Lectures cover purchasing regulations, federal and trade grades, yields and quality controls are explained.

CA 108 LEGAL IMPLICATIONS/CULINARY ARTS (1-0-0)(F/S). Legal requirements affecting food service operations.

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 instructors 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, basic pates, quiches, 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 (1-0-1)(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 gueridon service is explained and demonstrated.

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 117 STEWARDSHIP (1-0-1)(F/S). Stewarding functions and personnel responsibility are detailed through lecture and demonstration. Students participate in inventory control and learn procedures for the purchase of china, glass, silver, and linen.

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, including smoking methods. For total utilization of meat by-products, students prepare forcemeats, pates and sausage.

CA 119 SUPERVISORY DEVELOPMENT (1-0-1)(F/S). Students are instructed in the basic principles of effective supervision, including human relations, motivation, communications, proper training principles, interviewing, staffing, and discipline. Emphasis is placed on working with supervisors and subordinates in the food service/hospitality industry.

CA 121 AMERICAN REGIONAL COOKERY (1-0-1)(F/S). This course explores the utilization of indigenous ingredients in the preparation of American specialties. The items prepared in the kitchen will follow established culinary principles in the development of American cuisine. Timing and conversion of recipes are emphasized. At the conclusion of this course, students participate in a practical examination.

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 (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 (2-2-5)(F/S). This lab will be used for the following classes: CA 115, CA 116, CA 118, CA 121, and CA 122.

CA 202 ADVANCED CULINARY SKILLS (1-0-1)(F/S). Emphasis is given to fine-tuning the basic competencies learned up through second semester. Students prepare small sauces, quenelles, salpicons and forcemeats as applicable in a hot kitchen. Presentation of plated food as practiced in fine restaurants. Structured knife cutting skills, with attention to quality and reasonable hand speed, are daily requirements.

CA 204 ADVANCED BAKING (1-0-1)(F/S). Techniques are practiced in the production of puff pastry, sponge cake variations, high ratio cakes, cake decorating, pastry and specialty breads.

CA 205 ADVANCED COST CONTROL—MANAGEMENT SYSTEMS (1-0-1)(F/S). Students receive instruction in accounting principles and techniques as they relate to a system of cost control in the food service/hospitality industry. Internal and external sources of information available to management for forecasting and decision making are explained.

CA 206 CLASSICAL BAKING (1-0-1)(F/S). Students produce assorted tortes required for special functions and restaurant use, and also work on buffet pieces utilizing patisserie, nougat, marzipan, chocolate, and pulled sugar. Ice cream desserts are demonstrated.

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. Class conducted off campus. Majors only.
The Dental Assistant program is accredited by the Commission on Dental Accreditation. It prepares students to work in dental offices as assistants, performing duties such as preparing rooms and equipment, taking x-rays, and assisting with patient care. The program is designed to provide students with the necessary skills to enter the field with a certificate of completion.

Course Offerings
See page 19 for definition of course numbering system

DA DENTAL ASSISTING


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.

DA 106 DENTAL ASSISTING CLINICAL EXPERIENCE (3-6-4)(S). Supervised chair-side assisting experience in private dental offices and clinics.

DA 108 DENTAL OFFICE MANAGEMENT (2-0-2). Covers the fundamentals of business practices related to dentistry.

DA 109 PUBLIC HEALTH AND DENTAL HYGIENE (2-6-2). The classwork deals with preventive and patient education.

DA 111, 112 OCCUPATIONAL RELATIONS (2-6-2). The course is designed to enable a student to become skilled in dealing effectively with people; ethics and responsibilities within the law; job application and interviewing. One Semester course.

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 .................. 4
Fundamentals of Computer Drafting DT 109 .... 1
Communication Skills DT 111 .................. 3
Mathematics DT 131 .................................. 5
Applied Physics DT 141 .................. 3
*Elective (General) ........................... 2

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 .... 3

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 .................................. 4

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 3
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 201 3

Course Offerings
See page 19 for definition of course numbering system

DT DRAFTING TECHNOLOGY

DT 101 DRAFTING LABORATORY AND LECTURE (1-14-1) (F). 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 (1-14-1) (S). Architectural drafting includes facility planning, remodeling and details for commercial buildings. PREREQ: DT 101.

DT 109, 110 FUNDAMENTALS OF COMPUTER-AIDED DRAFTING AND DESIGN (1-11) (F/S). This course is an introduction to Computer-Aided Drafting and Design Systems. It will prepare students for keyboarding, to operate the system 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 disk and produce commercial quality copies using a computer-driven plotter. COREQ: Familiarity with basic drafting procedures and standards.

DT 111, 112 COMMUNICATION SKILLS (2-2-2) (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 (2-2-2) (S). 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 (3-1-3) (S). Fundamentals of algebra within a introduction to Basic Algebra and arithmetic operations with fractions, decimals, percentages, powers, operations with signed numbers, solutions of simple equations, factoring operations with algebraic expressions. One year high school algebra with satisfactory grade or equivalent required.

DT 132 MATHEMATICS (3-1-3) (S). Plane geometry, basic coordinate geometry, basic trigonometry and spatial geometry. Course includes many applied problems. 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 (3-0-3S). 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) (F). Civil drafting, mapping, highway curves and earthwork using conventional and computer drafting techniques. PREREQ: DT 122, 132, 102.


DT 221 DESCRIPTIVE GEOMETRY AND DEVELOPMENT (3-1-3F). 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 (2-0-2S). Objective: to enable students to meet on-the-job standards of report preparation in the field of drafting.

School of Vocational Technical Education

DT 231 APPLIED MATHEMATICS (3-1-3F). Solution of practical problems involving concepts from DT 131 and DT 132 Math. PREREQ: DT 132.


DT 241 STATICS (4-0-4F). Introductory course in statics with emphasis on analysis of simple structures. PREREQ: DT 132.


DT 261 GRAPHICS (1-1-1X). 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 (2-0-2F). 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 (2-12S). An intensive study of perspective and rendering as used in industrial illustration, architectural rendering and civil engineering, 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 McKee

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 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, trencher/backhoe, and related equipment components, 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

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<td>Design/Construction EL 161-162</td>
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<td>Occupational Relationships EL 262</td>
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Course Offerings
See page 19 for definition of course numbering system

EL ELECTRICAL LINWORKER

EL 101-102 ELECTRICAL LINWORKER LABORATORY (0-36-5F/S). The field operation 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 overhead and underground distribution networks, troubleshooting all systems including hot stick care and use, plus preventative maintenance on associate systems or equipment.

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, trencher/backhoe, and related equipment components, provides the student with "hands-on" experience permitting further and more concentrated advancement in these skilled areas.

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</table>
School of Vocational Technical Education

ES 262 OCCUPATIONAL RELATIONS (2-0-2) (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.

FRESHMAN YEAR

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<th>Course Offerings</th>
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<td>Electronics Mathematics ES 133</td>
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<td>Computer Literacy for Elect Tech ES 188</td>
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<td>Intro to Digital Electronics ES 123</td>
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<td>Linear Systems I Lab ES 173</td>
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Sophomore Year

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<td>Digital Systems II ES 214</td>
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<td>Occupational Relations ES 222</td>
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<td>Economics of Elect Service Management ES 264</td>
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<td>Telecommunication Systems I ES 232</td>
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<td>Electro-Mechanical Systems ES 281</td>
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<td>Telecommunication Systems II ES 285</td>
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</table>

Course Offerings

See page 19 for definition of course numbering system

ES—Electronics Service Technology

ES 106 Electronics Laboratory I (0-5-3/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.

ES 114 COMMUNICATION SKILLS (3-0-3/F/S). Industrial applications including the organization and delivery of technical reports in written form. Learning skills necessary to continually update the individual after leaving school.

ES 122 ELECTRONIC THEORY (5-0-5/F/S). Theory of direct and alternating currents in passive circuits. Circuit analysis of KCL configurations in both ac and dc applications.

ES 123 INTRODUCTION TO DIGITAL ELECTRONICS (2-0-2/F/S). Introduction to binary number systems, digital coding, basic logic gates and logic families.

ES 133 ELECTRONICS MATHEMATICS (5-0-5/F/S). The number system, algebra and trigonometric functions, exponential and logarithmic equations, vectors and graphing.


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 troubleshooting techniques, software troubleshooting and documentation.


ES 206 ELECTRONICS LAB (0-15-3). Combined electronics lab covering circuits and equipment used in ES 237, ES 214, ES 285 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.


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.


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.


EXTENDED PROGRAMS OFFERING

The following Extended Programs offerings are not required in the Electronics 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 293 FIBER OPTICS (2-0-2). Basic electronics overview including introductory circuit concepts and schematic interpretation. General circuit construction, voltage, current, power and resistance concepts. Components of fiber optic communication systems. Optical fiber properties and types, applications, advantage and limitations. Transmitter and receiver voice information to digital form and applications of digital signal multiplexing for use with optical fiber signal transmission and reception. System testing and standardized troubleshooting procedures.

ES 295 DIGITAL CONCEPTS WITH INTRO MICROPROCESSORS (1-4-2). An introductory computer course dealing in the use of the computer as a writing and computing tool. The student will be introduced to word processing and the BASIC computer programming language. Includes program writing and troubleshooting techniques, software troubleshooting and documentation.

For Certified Electronics Technician examination. Associate Level Exam preparation.


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.


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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, Bob Dodson, Stan Sluder, Jack 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.

**FRESHMAN YEAR**

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<td>Communication Skills ET 111-112</td>
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<td>Technical Report Writing ET 121</td>
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<td>Electronics Math I-II ET 131-132</td>
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<td>Basic Physical Science ET 142</td>
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**SECOND YEAR**

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<td>Solid State Device Physics ET 292</td>
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</tbody>
</table>

Total Number of Credit Hours: 69

**Course Offerings**

See page 19 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 equipment. PREREQ: ET 101.

**ET 102 ELECTRONICS LABORATORY II (0-5-1) (F/S)**. Experiments in alternating current electronics. Study of reactance, impedance, ac circuit behavior, ac transistor circuits, ac circuit devices, and characteristics of ac test equipment. PREREQ: ET 101.

**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 arithmetic equations, functions and the graphing of functions, exponential and logarithmic equations, and plane geometry and trigonometry.

**ET 132 ELECTRONICS MATHEMATICS II (3-2-3) (F/S)**. Complex numbers, vectors and vector mathematics, trigonometric functions and equations, and graphing of trigonometric functions. PREREQ: ET 131.

**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 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 154 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 maps and Boolean simplification of logic functions.

**ET 162 DIGITAL SYSTEMS I (2-0-2) (F/S)**. Basic TTL and MOS gate operations, combinational logic circuits, tri-state logic gates, expander functions of gates, fan-out specifications, propagation delay and operating speed. Basic sequential logic operations, R-S and J-K flip-flop fundamentals. PREREQ: ET 161.

**ET 163 DIGITAL SYSTEMS LAB I (1-0-1) (F/S)**. Laboratory exercises to complement ET 162. See ET 162 course description. PREREQ: ET 161.


**ET 173 SOLID STATE DEVICES LAB I (0-4-1) (F/S)**. Laboratory exercises to complement ET 172. Diode rectifier circuits, transistor biasing and amplifying circuits. Class A, AB, B, and C amplifier circuits, troubleshooting of diode and transistor circuits.
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). 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). Laboratory exercises to complement ET 251. Linear amplification and signal processing circuits including integrators, differentiators, active filters, oscillators, comparators, differential amplifiers, and specialized non-linear amplifiers. PREREQ: ET 152, ET 172.

ET 202 TELECOMMUNICATIONS LAB (0-5-1)(F). Laboratory exercise to complement ET 252. Communication experiments in radio frequency generation and measurement, amplitude and frequency modulation, frequency shift keying, pulse width and position modulation, radio frequency reception circuits, demodulation and detection, heterodyne systems, and automatic frequency control. PREREQ: ET 251.


ET 251 LINEAR SYSTEMS (3-2-3)(F). 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 (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.


ET 265 DIGITAL SYSTEMS LAB II (0-4-1)(F). 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). Laboratory exercises to complement ET 273. Study of characteristics of SCR devices, photodiodes and phototransistors, light emitting diodes, laser diodes, LASC devices, power field effect transistors, solid state temperature sensors and strain gauges. PREREQ: ET 172.


ET 276 DIGITAL SYSTEMS LAB III (0-5-1)(F). Laboratory exercises to complement ET 275. See ET 275 course description. PREREQ: ET 264.


ET 278 MICROPROCESSOR SYSTEMS LAB (0-5-1)(F). Laboratory exercises to complement ET 277. See ET 277 course description. PREREQ: ET 264.

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 163.

ET 291 INTRODUCTION TO SOLID STATE PHYSICS (3-0-3)(S). A study of the interaction of wave phenomena (electromagnetic radiation, lattice vibration, and electrons) 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 ............. 1

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 ............. 3

Mose 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 201 ............. 1

Fire Ground Management FR 202 ............. 1

Portable Fire and installed detection alarm and extinguishing systems/agents FR 203 ............. 2

Hazardous materials Incident Analysis FR 204 ............. 2

Fire Risk Analysis FR 205 ............. 1

Fire Service and the Law FR 206 ............. 2

High Rise FR 207 ............. 1

Industrial Fire Protection FR 208 ............. 1

Aircraft Fire Protection FR 209 ............. 1

Cooperative Vocational Education (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 10 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: organiza-
tion 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 fighter's 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, on-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 to 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 and determining flow pressures and determining quantity of water from the opening. PREREQ: PERM/INST.

FR 106 FIRE STREAM, 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 GPM for proper operation of each is part of this course of instruction. PREREQ: PERM/INST.

FR 107 ROPE, 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 backboarding and stretcher lifts, victim lifts, carries and drags, and in 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 apparatus 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 design, ladder inspection, care 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 (0-6-2). This course is designed to assist students in maintaining the practical use of equipment 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 (1-0-1). 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, 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 practices: types of fire apparatus, the driver and the apparatus, driving exercises, positioning and spotting 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 of 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 programs; promotional activities, industrial or functional activities, 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 causes, including: 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 FIRE GROUND MANAGEMENT (1-0-1). The assuming of command of operation in a fire scene is the main subject of this course, dealing with the specific performances of sizing up, positioning of vehicle equipment and personnel, determining point of attack, type of lay or lays required, type and size 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 extinguishers on drogue 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, conflagration, local disaster plans and the process of locating and notifying agencies on the status and preparedness of the disaster. 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 examining of problems social 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, organiza-
Course Offerings

DM HEAVY DUTY MECHANICS—DIESEL
DM 106 INTRODUCTION TO ENGINES (3-6-4)F. Theory and principles of operation. Engine disassembly, assembly component identification and function, use of measuring instruments and precision parts measuring.
DM 107 ENGINE COMPONENT SYSTEMS (2-2-2)F. Cooling systems, lube system, air intake system, superchargers, exhaust systems, turbochargers, headers, valves, reconditioning of seats and valves, valve train mechanisms.
DM 108 DIESSEL FUEL SYSTEMS (2-2-2)F. Cummins PT systems, Port and Helix metering system, includes Robert-Bosch, United-Technology, Simms and Caterpillar, sleeve metering systems, unit injectors, and distributor pump includes, Stanadyne and CAV, fuel filters and injectors and nozzles and holders.

Total 8 credits for this block—repeated in Fall Semester.

DM 109 BASIC HEAVY EQUIPMENT WELDING (1-1-1)F. Includes basic theory and lab of arc and gas welding, related to the maintenance and repair of heavy equipment.

DM 110 CLUTCHES AND TRANSMISSIONS (2-5-3)F. 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 (1-1-1)F. Will cover power take-off and drive line disassembly and assembly to factory specifications.
DM 112 DIFFERENTIAL, POWER DIVIDERS, FINAL DRIVE AND PLANETARY SYSTEMS (2-5-3)F. 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 (2-2-2)F. 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 (3-4-4)S. Introduction to batteries, switches, relays and solenoids, starter and charging systems used in electrical circuits of heavy duty equipment.
DM 115 BASIC HYDRAULICS (2-2-2)S. 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 (2-2-2)S. Air compressors, air brakes, parking brakes, air cans, spring brake cans, slack adjusters, brake shoes, air tanks and air piping.
DM 117 HYDRAULIC BRAKES (2-2-2)S. System components and functions, of brake systems including, brake shoes, drums, wheel bearings, wheel spindles, seals, brake adjustments.
DM 118 STEERING AND SUSPENSION SYSTEMS (2-2-2)S. Suspension system including torsion bars, springs, air suspensions, wheels, tires, frames.
DM 119 ENGINE BRAKES (2-2-2)S. Jacobs and Cummins systems, of engine brakes, retarders, construction and operation, shop skills, including sharpening drill bits and chisels, drilling and tapping holes, making copper and aerquip lines, fittings and fasteners.

Total 8 credits for this block—repeated in Spring Semester.

DM 120 PROJECT LAB/LECTURE (10-25-8)SU. Repair of outside projects in the heavy duty mechanical areas.
DM 262 OCCUPATIONAL RELATIONS (2-0-2)SU. 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.

FRESHMAN YEAR

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<th>Course Offering</th>
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<td>Horticulture Laboratory HO 101-102</td>
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<td>Communication Skills HO 111-112</td>
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<td>Related Basic Mathematics HO 131-132</td>
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<td>Related Basic Science HO 141-142</td>
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<td>Horticulture Theory HO 151-152</td>
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SOPHOMORE YEAR

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<td>Related Science HO 241-242</td>
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<td>Horticulture Theory HO 251-252</td>
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<td>Occupational Relationships HO 262</td>
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<td>Individual Project HO 271</td>
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<td>Consumer Marketing MM 201</td>
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<tr>
<td>Salesmanship MM 101</td>
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Course Offerings

See page 19 for definition of course numbering system

HO HORTICULTURE

HO 101 HORTICULTURE LABORATORY (0-15-4). Applying the related theory and content to the solution of practical problems in horticulture. Specific areas of application to include exploring occupational opportunities. Identification of plants by the use of descriptive terms; identification of annual and perennial flowering plants; use of scientific names; classification and botanical structures of plants, climatic and other factors limiting growth; plant propagation, greenhouse, flower, plant production, and floral design.

HO 102 HORTICULTURE LABORATORY (0-15-4). Applying the related theory and content to the solution of practical problems in horticulture. Specific areas of application include soils and soil amendments; construction of growing containers and houses; implementation of entire greenhouse operation and bedding plant production; the use of insecticides; pesticides, etc., and precautions necessary during use; pruning.

HO 111, 112 COMMUNICATION SKILLS (3-0-3/F/S). 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.

HO 131-132 RELATED BASIC MATHEMATICS (3-0-3). First semester—developing comprehension of the basic principles of mathematics. Specific areas include addition, subtraction, multiplication, division, fractions, denominate numbers, 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.

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, 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, climatic 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; evergreen and deciduous shrub, ground cover and vine identification; including walks, patios, arbors and retaining walls.

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 use, 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 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. Empphasis is placed on design, operation, maintenance, diagnosis and troubleshooting of modern systems as found in the workplace today. Preventive maintenance techniques and job safety are stressed.

Course Offerings

See page 19 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). This course combines use of basic hand tools with selected machine tools (lathe, mill, machine, drill press, sealer, pipe/bolt machine) as required to effectively service or repair increasingly sophisticated industrial devices. Preventive maintenance techniques utilizing this equipment are covered.

IM 110-111 ELECTRO-MECHANICAL SYSTEMS (3-0-3/F/S). This course covers basic electricity, electrical motor technology, controls, test meter usage, transmission of power via various drives, troubleshooting, and maintenance of these systems.

IM 121-122 BASIC FLUID POWER OPERATIONS (3-0-3/F/S). Hydraulics and Pneumatics: Complex automated manufacturing equipment requires a technician to be proficient in maintaining, repairing, and troubleshooting fluid power devices. This course provides basic exposure to fluid power systems of pumps, motors, valves, servo-actuators, filters, fluids, hydraulic and accessories.

IM 131-132 INDUSTRIAL MECHANICAL LABORATORY (0-20-5/F/S). Laboratory experiences keyed to Performance Based Objectives correlated with lecture topics are the basis for this course. Practical application of theory, maintenance, and safety are stressed.

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). 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.

School of Vocational Technical Education
Machine Shop—Two Year Program

Associate of Applied Science Degree
Instructor: 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 the use of a variety of 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 all metal 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 Offerings</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine Shop Laboratory MS 101-102</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Communication Skills MS 111</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Blueprint Reading MS 124-125</td>
<td>2</td>
<td>4</td>
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<tr>
<td>Basic Math MS 132</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Machine Shop Theory MS 151-152</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Occupational Relationships MS 262</td>
<td>-</td>
<td>2</td>
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<tr>
<td>Fundamentals of Speech Commun CI 111</td>
<td>-</td>
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SOPHOMORE YEAR

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<tr>
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<tbody>
<tr>
<td>Advanced Machine Shop Lab MS 201-202</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Blueprint Reading &amp; Layout MS 221-222</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Math MS 231-232</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Machine Shop Theory MS 251-252</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Electives (on approval)</td>
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<td><strong>19</strong></td>
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</tbody>
</table>

Course Offerings

See page 19 for definition of course numbering system

MS MACHINE SHOP

MS 101-102 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 the lathes, milling machines, drill presses, power saws, grinders, surface grinders, the use of special attachments, bench work, layout, and computer numerical control milling machines.

MS 111 COMMUNICATION SKILLS (3-0-3)(F). An examination of interpersonal communication. Focuses on communication in daily life-long learning, on awareness of self, communicative relationships and written communications.

MS 124-125 RELATED BLUEPRINT READING (2-0-2)(F)(S)(MS). This is concerned with the study of the principles and techniques of reading blueprints as applied to the machine shop. The sketching and drawing of actual shop projects will enable the student to understand the techniques used in reading of machine shop blueprints.

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 151-152 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 special grinders, mills, lathes, CNC, drill press machines, automatic machine tools, layout and inspection.

MS 201-202 ADVANCED MACHINE SHOP LABORATORY (2-18-6)(F). The set-up and operation involving manipulative development and increased skill in the use of lathes, milling machines, drill presses, power saws, grinders, surface grinders, heat treating, hardness testing, and computer numerical control mill and lathe set-up, operation and programming. PREREQ: MS 102.

MS 221-222 BLUEPRINT READING AND LAYOUT FOR THE MACHINIST (3-0-2)(F). Three dimensional drawing and hand sketching of C.N.C. prints and as applied to the machinist trade. This also includes designs of fixtures, jigs and tools used in the machinist trade. PREREQ: MS 125.

MS 231-232 ADVANCED MATH (6-0-6)(F). A study of trigonometry and geometry as applied to shop problems and the mathematics required for numerical control machining. A study of scientific principles required in the machinist trade is provided. PREREQ: MS 132.

MS 251-252 ADVANCED MACHINE SHOP THEORY (3-0-2)(F). The programming and set-up of numerical controlled milling and lathe machines and the use of CAD/CAM drafting and their application to the machine shop. PREREQ: MS 152.

MS 262 OCCUPATIONAL RELATIONS (2-0-2)(S). An examination of occupational relationships. Focuses on job seeking skills, employer and employee relations, social security and workmen's compensation laws, CPR, and first aid skills.
A student must complete the following requirements to graduate from the program.

Professional Concepts PN 101 ................................................. 2
Anatomy and Physiology for Practical Nursing PN 102 .................. 4
Medical-Surgical Nursing Clinical PN 104 .................................. 7
Nutrition and Diet Therapy PN 105 .................................................. 2
Emergency Nursing Concepts PN 106 .............................................. 2
Pharmacology for Practical Nursing PN 107 ..................................... 3
Pharmacology Clinical PN 108 .................................................. 1
Geriatric Nursing PN 109 .................................................. 1
Geriatric Clinical PN 110 .................................................. 1
Maternal and Infant Clinical PN 112 ........................................... 2
Pediatric Clinical PN 113 .................................................. 2
Fundamentals of Nursing PN 114 ................................................. 5
Clinical Foundations PN 115 .................................................. 3
Community Health and Microbiology PN 120 ............................... 1
Medical-Surgical Nursing I PN 121 ................................................. 8
Medical-Surgical Nursing II PN 122 .............................................. 7
Growth and Development PN 123 .................................................. 2
Maternal and Infant Health PN 124 .................................................. 2
Pediatric Nursing PN 125 .................................................. 2
Mental Health and Mental Illness PN 126 .................................... 2
TOTAL 58

Course Offerings

See page 19 for definition of course numbering system

PN PRACTICAL NURSING

PN 101 PROFESSIONAL CONCEPTS (2-0-2)/S). Topics of study for Practical Nursing Professional Concepts will include job seeking skills, 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.

PN 109 GERIATRIC 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 (0-8-2). Clinical experience for PN 124. PREREQ: PN 124.

PN 113 PEDIATRIC CLINICAL (0-8-2). 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 117 CLINICAL ELECTIVES (0-2-1). The student will obtain clinical experiences in specialty area as arranged by the instructor.

PN 118 PRACTICAL NURSING SPECIAL THEORY (4-0-4). 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 (4-0-4). Designed to provide the opportunity for specific clinical experience. The clinical offer will be selected on the basis of an evaluation of needs of the individual. PREREQ: PERM/DEPT.

School of Vocational Technical Education

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 (1-0-1). 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.

Professional Truck Driving Program—Ten Week Program

Certificate of Completion
Instructor: Dwight Flaming

The Professional Truck Driving Program curriculum is designed to provide the students with the necessary skills and background for employment as a professional student driver. This program is 10 weeks in length, 8 hours per day. Initially controlled driving will take place in non-traffic areas and advanced to open road, progressing from an empty to a loaded truck and trailer. The student will learn skills and procedures for handling freight, loading and unloading, dock loading, trailer combinations and their uses. Ample time will be given to familiarize the student with the problems of negotiating large rigs in traffic and over the highway. ICC and interstate rules and requirements will be covered including log keeping and accident procedures. A Certificate of Completion is issued upon satisfactory completion of the program. All students must meet the Department of Transportation's physical standards and have a Department of Motor Vehicles check.

SUBJECTS

Basic Operation TD 100 .......................................................... 3
Safe Operating Procedures TD 105 ............................................... 3
Advanced Operating Practice TD 110 ............................................ 2
Vehicle Maintenance TD 115 .................................................. 4
Transportation Systems Management TD 120 ................................................. 3
TOTAL 15

Course Offerings

See page 19 for definition of course numbering system

TD 100 BASIC OPERATION (3-9-3) This course includes orientation to the program, introduces students to control systems, vehicle inspection, basic mechanic, operation, shifting, backing, coupling and uncoupling, proficiency development, and introduction to required permits, log books and regulations.

TD 105 SAFE OPERATING PROCEDURES (2-4-3) This course includes classroom and lab instruction on principles of visual search, communications, speed management, space management, night operation, extreme driving conditions and proficiency development covering safe operating procedures.

TD 110 ADVANCED OPERATING PRACTICE (1-4-2) This course includes lab and classroom instruction on hazard perception, emergency maneuvers, skid control and recovery.

TD 115 VEHICLE MAINTENANCE (1-4-4) This course includes classroom and lab instruction on the function and operation of all key vehicle systems, preventive maintenance and vehicle servicing including checking engine fluids, changing fuses, checking tire inflation, changing tires, draining air tanks, adjusting brakes, and performing emergency repairs. Diagnosing and reporting of vehicle malfunctions will also be covered.

TD 120 TRANSPORTATION SYSTEMS MANAGEMENT (2-4-3) This course includes the lab and basic principles of handling freight, weight distribution, securing and covering cargo, cargo documentation, service requirements including permissible hours of duty, log keeping, accident procedures, personal health and safety, trip planning, public and employee relations.

179
Refrigeration, Heating and Air Conditioning—Nine Month Program

Certificate of Completion
Instructor: Alan Messick

The Refrigeration, Heating and Air Conditioning Program offers laboratory experience, theory classes and related subjects, designed to prepare students for entry level employment. Emphasis will be on the servicing of commercial equipment and will cover all phases of skills and knowledge necessary to repair the equipment with a strong emphasis on safety.

SUBJECTS

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Air Conditioning Lab RH 121-122</td>
<td>5</td>
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<tr>
<td>Air Conditioning Theory RH 141-142</td>
<td>10</td>
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<td>Occupational Relationships RH 262</td>
<td>2</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>17</td>
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</table>

Course Offerings

See page 19 for definition of course numbering system

**RH AIR CONDITIONING, REFRIGERATION AND HEATING**

RH 121-122 AIR CONDITIONING, REFRIGERATION AND HEATING LABORATORY (0-20-3)(F/S). This course provides 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 equipment. Emphasis is on causes of break downs and the making of necessary repairs. Test equipment is used in the inspection of components such as relays, thermostats, motors and refrigerant lines.

RH 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, securing, maintaining and advancing in employment.

**Respiratory Therapy Technician**

Certificate of Completion
Instructors: Steve Ferguson, David Nuerenberg, Dr. Charles Reed, Denise Voigt

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.

The program is fully accredited by the Council on Allie 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 .......................................................... 3
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 ........................................... 2
Pulmonary Function Theory RS 156 ........................................... 1
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 19 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 (3-0-2)(F). A general science study including a review of basic mathematics, chemistry, and physics with emphasis on gas laws. PREREQ: PERM/INST. systems of automobiles.

RS 113 CLINICAL ASSESSMENT (2-0-2)(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 handling, 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)(F). A study of the biologically dead patient, the physiology of cell, tissue, organ and system death. CPR 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 of a variety of two and four cycle engines used on portable power equipment, e.g., lawnmowers, 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>
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<tr>
<th>Course Name</th>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Small Engine Laboratory 101-102</td>
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<tr>
<td>Small Engine Theory 141-142</td>
<td>6</td>
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<tr>
<td>Occupational Relationships SE 262</td>
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<td>16</td>
<td>14</td>
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</tbody>
</table>

Course Offerings

See page 19 for definition of course numbering system

ST SMALL ENGINE REPAIR

SE 101 SMALL ENGINE LABORATORY (0-32-8)(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 (0-32-8)(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 262 OCCUPATIONAL RELATIONS (2-0-2)(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.

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.

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<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>ST 100</td>
<td>Introduction &amp; Basic Sciences</td>
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<tr>
<td>ST 101</td>
<td>Operating Room Techniques</td>
<td>4</td>
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<tr>
<td>ST 102</td>
<td>Sterilization &amp; Disinfection</td>
<td>4</td>
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<tr>
<td>ST 110</td>
<td>Care of Surgical Patient</td>
<td>4</td>
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<td>ST 111</td>
<td>Surgical Procedures</td>
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<td>ST 131</td>
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<td>PE 121</td>
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<td>Z 111</td>
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<td>Z 112</td>
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</table>

Course Offerings

See page 19 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 Asepsis; (6) Introductory Pharmacology; (7) Introductory to Oncology; (8) Disease Conditions; (9) Diagnostic Procedures; (10) Communication in Surgical Technology.

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) Sponges, Dressings, Drains, Care of Specimens; (7) Instruments and Special Equipment.

ST 102 STERILIZATION AND DISINFECTION (1-1-15S). Includes modules: (1) Introduction to Microbiology—The Microbe; (2) Introduction to Microbiology—The Body's Defenses; (3) Infection, 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 drugs used.

ST 131 CLINICAL PRACTICE (2-4-3F). Includes patient care and beginning experience in the operating rooms, outpatient surgery and central supply.

ST 132 ADVANCED CLINICAL PRACTICE (4-6-4)(S). Includes advanced experience in surgery, scrubbing, and circulating.
Wastewater Technology—Eleven Month Program

Certificate of Completion
Instructor: Al Hodge

The Wastewater Technology Program is designed to prepare a student for employment as an entry level 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 wastewater facility.

SUBJECTS

<table>
<thead>
<tr>
<th>1st SEM</th>
<th>2nd SEM</th>
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<td>Wastewater Bio-Chem Lab I WW 103</td>
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<td>Wastewater Treatment Plant Ops I WW 151</td>
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SUMMER

Plant Practicum WW 105 | 8

Course Offerings

See page 19 for definition of course numbering system

W WASTEWATER TECHNOLOGY

WW 103 WASTEWATER BIO-CHEM LAB I (3-0-2)(F). Introduction to standard laboratory equipment, safety procedures, and practices. Some basic wastewater testing will be performed.

WW 104 WASTEWATER MECHANICAL LAB I (3-0-2)(F). Introduction to, and use of hand tools, power tools, bench mounted tools, presses, etc. Nomenclature of the various types of pumps, blowers, air compressors, clarifiers, and other machinery used in wastewater treatment. Field trips to the various types of wastewater treatment facilities will be made at the beginning. As individual treatment units are discussed, field trips will be made to inspect that unit only.

WW 105 IN PLANT PRACTICUM (0-0-8)(SU). Supervised experience in area wastewater facilities. Students gain experience in all phases of wastewater treatment in a variety of facilities and with several processes.

WW 106 WASTEWATER MECHANICAL LAB II (3-0-2)(S). Hands-on assembly and disassembly of the various pieces of machinery used in wastewater treatment. Installation of packing and mechanical seals in pumps and valves. Basic ox-yacetylene and arc welding. Reading blueprints and schematics. Learning basic skills of pipefitting. Field trips to surrounding industrial wastewater treatment facilities will be made.

WW 107 WASTEWATER BIO-CHEM LAB II (3-0-2)(S). Continuation of laboratory procedures. Standardization of chemicals and testing apparatus. Maintenance of lab equipment. Chemistry mathematics dealing with the normalizing of solutions, balancing reaction equations, etc. Testing procedures required for the various methods of activated sludge process control, as well as tests required for N.P.D.E.S. permit reporting will be performed. Procedure and logic for research testing will be introduced.


WW 132 WASTEWATER MATHEMATICS II (3-0-2)(S). Intermediate mathematics covering algebra, chemistry calculations, geometric means, logarithms, electrical circuitry, horsepower calculations, etc.

WW 151 WASTEWATER TREATMENT PLANT OPERATIONS I (3-0-2)(F). Introduction to wastewater treatment plant operations, including collection systems, pretreatment, primary sedimentation, aerobic and anaerobic digester operations. Related math, communication skills and chemistry.

WW 152 WASTEWATER TREATMENT PLANT OPERATIONS II (3-0-2)(S). Secondary treatment processes including trickling filters, aerobic biological filter, rotating biological contractors, oxidation ditches, with heavy emphasis on activated sludge process control. Plant process interaction, report writing, budget preparation and finance, and related first aid and safety.

Welding and Metals Fabrication—Eleven Month Program

Certificate of Completion
Instructor: Ron Balder

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) (Hel-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

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<th>Fall</th>
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<td>Blueprint Read &amp; Layout W 121-122</td>
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<td>Welding Communication W 111</td>
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</tr>
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</table>

Course Offerings

See page 19 for definition of course numbering system

W WELDING

W 101-102 WELDING LABORATORY (0-20-2)(F). The basic to intermediate portion of this program includes electric arc (SMAW) with mild and low alloy steel electrodes, oxygen-acetylene (OA) welding and brazing, metallic inert gas (MIG) welding, oxygen-acetylene cutting of steel, and the use of carbon arc equipment.

W 103 WELDING LECTURE/LABORATORY (0-20-2)(SU). Summer session (2 months) for basic students to continue on track and for advanced students to work into TIG, PIPE and qualification tests. Further emphasis on blueprint analysis, properties of materials, and safe operating procedures is given.

W 111 WELDING COMMUNICATIONS (3-0-3)(F). An examination of interpersonal communication. Focuses on communication in life-long learning, awareness of self, communicative relationships and written communications.

W 121-122 BLUEPRINT READING AND LAYOUT (3-0-3)(F)/7-0-7(S). Fall semester will include blueprint, basics of structural steel layout and fitting procedures. Spring semester will include advanced structural steel and basic plate drawing including field assembly plans and related math.

W 151-152 WELDING THEORY (4-0-4)(F)/7-0-7(S). The theory for the program covers all areas as related to the lab portion as well as material identification, material strength, forming methods, cast iron, material rigging and handling, and all aspects of safety.

## Boise State University Faculty
### Full-Time Official Faculty as of February, 1987

**NOTE:** The date in parentheses is the year of first appointment.

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution</th>
</tr>
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<tbody>
<tr>
<td>Ackley Louise</td>
<td>Assistant Professor, English, M.A.</td>
<td>University of Washington</td>
</tr>
<tr>
<td>Affleck Stephen B</td>
<td>Associate Professor, Engineering, Ph.D.</td>
<td>Iowa State University</td>
</tr>
<tr>
<td>Allen John W</td>
<td>Professor, Physics, Ph.D.</td>
<td>Harvard University</td>
</tr>
<tr>
<td>Allen Robert D</td>
<td>Advanced Instructor, Industrial Mechanics</td>
<td></td>
</tr>
<tr>
<td>Anderson Jeffrey M</td>
<td>Director, Clinical Education, Respiratory Therapy</td>
<td>University of Wisconsin Madison</td>
</tr>
<tr>
<td>Anderson Robert</td>
<td>Professor, Mathematics, Ph.D.</td>
<td>Michigan State University</td>
</tr>
<tr>
<td>Arambarrri Gary</td>
<td>Manager, Technical Division</td>
<td>Boyle State University</td>
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<tr>
<td>Ashton, Lonny J</td>
<td>Associate Professor, Respiratory Therapy</td>
<td>M.S., College of Idaho</td>
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<tr>
<td>Atlakson Philip</td>
<td>Assistant Professor, Theatre Arts, M.A.</td>
<td>State University of New York</td>
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<tr>
<td>Ayers Kathleen L</td>
<td>Assistant Professor, Mathematics, Ph.D.</td>
<td>University of Idaho</td>
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<tr>
<td>Baichtal Melanie</td>
<td>Assistant Instructor, Practical Nursing</td>
<td>B.S.N., Cal State, Chico</td>
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<tr>
<td>Bain Craig E</td>
<td>Assistant Professor, Accounting, Ph.D.</td>
<td>Texas A &amp; M</td>
</tr>
<tr>
<td>Baker Charles W</td>
<td>Professor, Biology, Ph.D.</td>
<td>Oregon State University</td>
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<tr>
<td>Baker Richard P</td>
<td>Professor, Sociology, Ph.D.</td>
<td>Washington State University</td>
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<td>Baldassarre Joseph A</td>
<td>Associate Professor, Music, D.M.A.</td>
<td>Case Western Reserve University</td>
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<tr>
<td>Baldner Ronald</td>
<td>Senior Instructor, Welding, M.S.</td>
<td>University of Idaho</td>
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<td>Baldwin John B</td>
<td>Professor, Music, Ph.D.</td>
<td>Michigan State University</td>
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<td>Ball Richard</td>
<td>Professor, Mathematics, Ph.D.</td>
<td>University of Wisconsin</td>
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<td>Banks Richard C</td>
<td>Chairperson, Chemistry Department, Professor, Organic Chemistry</td>
<td>Oregon State University</td>
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<tr>
<td>Barney Lloyd Dwayne</td>
<td>Assistant Professor, Economics, Ph.D.</td>
<td>Texas A &amp; M</td>
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<td>Barrett Gwynn W</td>
<td>Professor, History, Ph.D.</td>
<td>Brigham Young University</td>
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<td>Barsness Wylla D</td>
<td>Professor, Psychology, Ph.D.</td>
<td>University of Minnesota</td>
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<td>Barton Charles Rayburn</td>
<td>Acting Chief Academic Officer, State Board of Education; Associate Professor, Political Science, Ph.D.; University of Alabama</td>
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<td>Bawens Jeanne</td>
<td>Associate Professor, Biology, Ph.D.</td>
<td>Washington State University</td>
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<td>Bely Jeanne Marie</td>
<td>Assistant Professor, Music, M.A.</td>
<td>Ball State University</td>
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<td>Benson Elmo B</td>
<td>Associate Professor, Art; Ed.D.</td>
<td>University of Idaho</td>
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<td>Bentley Elton B</td>
<td>Associate Professor, Geology, Geophysics, Ph.D.; University of Oregon</td>
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<td>Benton Danny</td>
<td>Assistant Instructor, Drafting Tech.; B.S., La Salle Extension University</td>
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<td>Berg Lynn</td>
<td>Assistant Professor, Music, D.M.A.</td>
<td>University of Wisconsin Madison</td>
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<td>Bieter J Patrick</td>
<td>Professor, Teacher Education, M.A.</td>
<td>University of Idaho</td>
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<td>Bigelow John D</td>
<td>Professor, Management, Ph.D.</td>
<td>Case Western Reserve University</td>
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<td>Bixby Michael</td>
<td>Associate Professor, Management, J.D.</td>
<td>University of Michigan</td>
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<td>Blain Michael</td>
<td>Associate Professor, Sociology, Ph.D.</td>
<td>University of Colorado</td>
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<td>Blankenship Jim</td>
<td>Professor, Art; M.F.A.; Otis Art Institute</td>
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<td>Bledsoe Crissy M</td>
<td>Instructor, Nursing; M.S.</td>
<td>University of Colorado, Boulder</td>
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<td>Boren Robert R</td>
<td>Chairperson, Communication Department; Professor, Communication; Ph.D.; Purdue University</td>
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<td>Borman LeAnne</td>
<td>Instructor, Practical Nursing B.S.</td>
<td>Idaho State University, B.S., University of Colorado</td>
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<td>Bounds-Fosburg Karen J</td>
<td>Associate Professor, Business and Office Education Ed.D., North Texas State University</td>
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<td>Boyer Dale K</td>
<td>Professor, English; Ph.D.</td>
<td>University of Missouri</td>
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<td>Brent J Wallis</td>
<td>Associate Professor, Music; M.M.</td>
<td>University of Utah</td>
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<td>Brender Susan I</td>
<td>Professor, Computer Systems; Ph.D.</td>
<td>University of Iowa</td>
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<td>Brinton Alan P</td>
<td>Professor, Philosophy; Ph.D.</td>
<td>University of Colorado</td>
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<td>Brown Timothy</td>
<td>University Librarian; Associate Professor, M.S.; University of Illinois</td>
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<td>Advanced Instructor, Hvy-Duty Mechanics (Diesel)</td>
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<td>Capell Harvey J</td>
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<td>Carlson Douglas</td>
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<td>Carpenter Connie</td>
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<td>Carter Loren S</td>
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<td>Case Michael</td>
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<td>Arizona State University</td>
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<td>Centanni Russell</td>
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<td>Chase Eileen</td>
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<td>Chastain Garvin</td>
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</table>
Faculty

Christensen James L ........................................................................... (1970)  
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Glassen Gustav B ............................................................................... (1979)  
Stand. Instructor, Machine Shop; Certif, Mercenghaller Linotype Co  
Glenn Roy ............................................................................................ (1969)  
Assistant Professor, Management; Ph.D., Case Western Reserve Univ.  
Gourley Margaret .............................................................................. (1977)  
Advanced Instructor, Child Services/Mgmt.; B.A., College of Wooster  


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<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
<th>Institution</th>
</tr>
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<tbody>
<tr>
<td>Grantham Stephen B.</td>
<td>Assistant Professor, Mathematics; Ph.D., University of Colorado</td>
<td>(1962)</td>
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<tr>
<td>Griffith John</td>
<td>Assistant Professor, Decision Sciences; Ph.D., University of Utah</td>
<td>(1973)</td>
</tr>
<tr>
<td>Groebner David F.</td>
<td>Associate Professor, Library Science; M.L.S., University of Washington</td>
<td>(1986)</td>
</tr>
<tr>
<td>Guerin Michael</td>
<td>Assistant Professor, Teacher Education; Ph.D., University of Idaho</td>
<td>(1981)</td>
</tr>
<tr>
<td>Guilford Charles</td>
<td>Associate Professor, English; Ph.D., Northern Illinois University</td>
<td>(1981)</td>
</tr>
<tr>
<td>Haacke Don P.</td>
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Faculty

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Thelma F. Allison, Associate Professor, Home Economics (1946-1973)
John B. Barnes, President, Boise State University (1967-1977)
John Beita, Professor, Teacher Education (1970-1985)
John H. Best, Professor, Music (1947-1983)
Bill Bowman, Professor, Physical Education (1969-1985)
Phyllis Bowman, Assistant Professor, Physical Education (1969-1985)
Jean C. Boyles, Assistant Professor, Physical Education (1949-1957, 1962-1984)
C. Griffith Bratt, Professor, Music (1946-1976)
William Bronson, Professor, Physical Education (1969-1985)
James R. Buchanan, Assistant Professor, Welding (1959-1978)
Clara Burch, Associate Professor, Teacher Education Library Science (1969-1978)
Erma M. Callies, Assistant Professor, Vocational Student Services (1969-1985)
William Carson, Associate Professor, Accounting (1963-1982)
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J. Calvin Emerson, Associate Professor, Chemistry (1933-1940, 1960-1973)
Evelyn A. Evelyn, Associate Professor, Library Science (1957-1977)
Margorie Fairchild, Assistant Professor, Library Science (1966-1975)
Milton Fleshman, Assistant Professor, Auto Mechanics Technology (1959-1979)
Albert Fuehrer, Instructor, Auto Mechanics Technology (1965-1978)
John F. Hager, Associate Professor, Machine Shop (1954-1969)
Clayton Hahn, Associate Professor, Engineering (1963-1981)
Alice H. Hatton, Registrar (1959-1974)
Ken L. Hill, Professor, Education (1962-1970)
LaVar Hoff, Instructor, Culinary Arts (1979-1986)
James W. Hopper, Associate Professor, Music (1970-1986)
Helen R. Johnson, Associate Professor, Business Education (1955-1978)
Leo Jones, Professor, Biology (1972-1981)
Doris A. Kelly, Associate Professor, Nursing (1958-1977)
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Carroll Meyer, Professor, Music (1948-1985)
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