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.

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.

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, Fahlson, Miller, Pettichoff, 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 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 skilful 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 skilful 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. Teaching P.E.: For students seeking to certify as physical education instructors at the K-6, 7-12 or K-12 levels.
   b. Coaching: College of Education majors who want special preparation for public school coaching should pursue this alternative.
   c. Athletic Training: For those who desire to prepare for the National Athletic Trainers Association Certification Examination and qualify as an Athletic Trainer in a school setting.
   d. Health: For students requesting a strong minor in health education.

2. Non-Teaching, Physical Education: For students preparing for physical education related careers which do not require teacher certification.

   a. Exercise Science: Majors desiring a strong biological sciences and exercise physiology background as preparation for graduate school.
   b. Biomechanics: For those seeking additional understanding of the mechanical bases of human movement for coaching, research or preparation for graduate school.
   c. 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/Industrial 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 C-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.)
   a. 2.50 or above = unconditional acceptance
   b. 2.25 to 2.49 = provisional acceptance
   c. below 2.25 = denial

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
AREA II CORE ........................................... 12
AREA III CORE ........................................... 12
AREA II-III Electives ....................................... 9
TOTAL ...................................................... 51

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 PE 230 .................................... 3
Human Growth & Motor Learning PE 306 ..................... 3
Evaluation in Physical Education PE 309 ..................... 3
Exercise Physiology PE 310 ................................ 3
Kinesiology PE 311 .......................................... 3
Adapted PE-PE 451 .......................................... 3
TOTAL ...................................................... 28-35

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

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

Recommended Program

PHYSICAL EDUCATION, SECONDARY EDUCATION

FRESHMAN YEAR
English Composition E 101-102 ..................................... 6
General Psychology P 101 (AREA II CORE) ....................... 3
Human Anatomy and Physiology Z 111-112 (AREA III CORE) .... 3
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 PE 201 AREA II CORE .................... 3
Fund of Speech Comm CM 111 AREA II CORE ................. 3
Fund of Physical Science PS 100 AREA III CORE .............. 3
OR .................................................................... 4-8

General Physics PH 101-102 AREA III CORE .................... 6
AREA I CORE-Second & Third Fields ......................... 6
AREA II CORE-Sociology Elective .......................... 3
*Fitness Activity ............................................. 4
Electives ...................................................... 32

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 ................................ 3
Secondary School Methods TE 381 .............................. 3
AREA I CORE-Any Field ..................................... 3

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

SENIOR YEAR
Adolescent Psychology P 312 .................................. 3
Educatign Except Second Student TE 333 ...................... 1
Adapted PE—PE 451 .......................................... 3
Organization and Admin of PE—PE 457 ......................... 2
*Fitness Activity ............................................. 2
Student Teaching ................................................ 10-16
Electives ...................................................... 10

TOTAL ...................................................... 29-36

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.
1. SPORT: PE 143, 144, 212, 217, FA 182, 187.
2. DANCE: FA 121, 122, 123, 124, 125.
3. FITNESS: FA 161, 163, 164, 165, 166, Aquatics.
4. LEISURE: FA 133, 135, 173, 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 ........................................ 1
Fitness Foundations PE 114 .................................... 1
Tumbling Skills PE 115 ........................................ 1
Sports Skills PE 117 ........................................... 1
Training Room Procedures PE 120 .............................. 1
Advanced First Aid & CPR PE 122 or equiv .................... 3
AREA I CORE-Philosophy Elective .......................... 3

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

SOPHOMORE YEAR
Applied Anatomy PE 230 ........................................ 3
Microcomputers in PE—PE 284 or equiv. ......................... 3
Internship PE 293 ............................................ 3
Intro Athletic Injuries PE 236 ................................ 3
AREA II-CORE-Any Field .................................. 3
Fund of Speech Comm CM 111 AREA II CORE ................. 3
Fund of Physical Science PS 100 AREA III CORE .............. 4
AREA I CORE-Second Field .................................. 3
Essen of Chemistry C 107-110 AREA III CORE .............. 9

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

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

TOTAL ...................................................... 32

SENIOR YEAR
Adapted PE—PE 451 .......................................... 3
Psycho/Social Aspects of Activity PE 401 ......................... 3
Internship PE 493 ............................................ 3
Fitness Testing PE 404 ....................................... 2
Health Programs: Methods & Adm. 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 ...................................................... 4

TOTAL ...................................................... 27

PHYSICAL EDUCATION, NON-TEACHING OPTION

BIOMECHANICS EMPHASIS

FRESHMAN YEAR
English Composition E 101-102 ..................................... 6
General Psychology P 101 (AREA II CORE) ....................... 3
Fund of Speech Comm CM 111 (AREA II CORE) .............. 3
Concepts of Human Anatomy & Physiology Z 107 ............ 4

TOTAL ...................................................... 10 

107
College of Education

**Health Education PE 100** ........................................... 3
**Foundations of Physical Education PE 101** .......................... 3
**Rhythmic Skills PE 113** ............................................. 1
**Fitness Foundations PE 114** ........................................ 1
**Tumbling Skills PE 115** .............................................. 1
**Sports Skills PE 117** ................................................ 1
**Advanced First Aid & CPR PE 122 or equiv** ......................... 3
**AREA I CORE-Philosophy Elective** ................................ 3
**Digital Computer Programming CS 124/EN 104** .................... 2

**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 M/PH 225 ........................ 2
**AREA I CORE-Second & Third Fields** ............................... 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
*Electives* ........................................................................ 9

**SENIOR YEAR**

Adapted PE—PE 451 .......................................................... 3
Psycho/Social Aspects of Activity PE 401 ............................... 3
Internship PE 493 ............................................................ 6
*Electives* ........................................................................ 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
Found of Physical Education PE 101 .................................... 3
Rhythmic Skills PE 113 ..................................................... 1
Fitness Foundations PE 114 .............................................. 1
Tumbling Skills PE 115 ..................................................... 1
Sports Skills PE 117 ........................................................ 1
Advanced First Aid & CPR PE 122 or equiv ......................... 3
**AREA I CORE-Philosophy Elective** ................................ 3

**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 & Third Fields** ............................... 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
Nutrition H 207 ............................................................... 3
**AREA I CORE-Third—Any Field** ................................... 6
*Electives* ....................................................................... 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
Adapted PE—PE 451 .......................................................... 3
Internship PE 493 ............................................................. 3
Fitness Testing PE 404 ...................................................... 2
*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
Found of Physical Education PE 101 .................................... 3
Rhythmic Skills PE 113 ..................................................... 1
Fitness Foundations PE 114 .............................................. 1
Tumbling Skills PE 115 ..................................................... 1
Sports Skills PE 117 ........................................................ 1
Advanced First Aid & CPR PE 122 or equiv ......................... 3
**AREA I CORE-Philosophy Elective** ................................ 3

**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 & Third Fields** ............................... 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
Nutrition H 207 ............................................................... 3
**AREA I CORE-Third—Any Field** ................................... 6
*Electives* ....................................................................... 10

**SENIOR YEAR**

Psycho/Social Aspects of Activity PE 401 ............................... 3
Adapted PE—PE 451 .......................................................... 3
Internship PE 493 ............................................................. 3
Fitness Testing PE 404 ...................................................... 2
Health Programs: Methods & Adm. PE 415 ......................... 3
Health Promotion in the Worksite PE 416 ............................ 2
*Electives* ....................................................................... 8


**Course Offerings**

See page 28 for definition of course numbering system

**PE PHYSICAL EDUCATION**

**Lower Division**

**PE 100 HEALTH EDUCATION** (3-0-3/F/S). Covers nutrition, diseases, health needs, services, drugs, family living and personality structure and development. Enhances student adjustment toward effective functioning in a changing environment. Required of all PE majors.
PE 101 FOUNDATIONS OF PHYSICAL EDUCATION (3-0-3)(F/S). 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 103 INTRODUCTION TO RECREATION (2-0-2)(S). 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)(F/S). Professional activity. Instruction and practice in rhythmic skills, (locomotor, non-locomotor, and manipulative), emphasizing fundamental and practical application. Required of all PE majors.

PE 114 FITNESS FOUNDATIONS (0-2-1)(F/S). 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)(F/S). Professional activities. Instruction and practice in tumbling skills, emphasizing fundamentals, skill progressions and practical application. Required of all PE majors.

PE 117 SPORTS SKILLS (0-2-1)(F/S). Professional activities. Instruction and practice in sports skills, emphasizing fundamentals, skill progressions and practical application. Required of all PE majors.

PE 120 TRAINING ROOM PROCEDURES (0-2-1)(F). Instructed in current clinical aspects of campus athletic training programs, emphasizing observation and practical application.

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

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

PE 123 FIRST AID INSTRUCTOR TRAINER COURSE (1-2-1)(S). Professional activity. Instruction and practice in CPR and Standard First Aid. Offered spring on odd numbered years.

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

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

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

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

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

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

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

PE 230 APPLIED ANATOMY (2-2-3)(F/S). Investigation of human osteology, myology, arthrology and neurology as they relate to movement. Emphasis is on application of anatomy to principles of simple and complex movement. Required of all PE majors. PREREQ: Z 107 or Z 111-12.

PE 236 INTRODUCTION TO ATHLETIC INJURIES (2-2-3)(F/S). Introduction to principles of care and prevention of sport induced injury. Emphasis will be on identification and differentiation of minor and major trauma related to sports participation.


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

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

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

PE 255 COACHING WOMEN'S GYMNASTICS (2-0-2). Instruction in methods of coaching women's gymnastics with emphasis on fundamentals, skill progressions, safety, conditioning and practical application. PREREQ: Sophomore standing. Offered upon demand.

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

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

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

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

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

PE 283 WATER SAFETY INSTRUCTOR'S COURSE (1-2-1)(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 284 MICROCOMPUTERS IN PHYSICAL EDUCATION (3-0-3)(F/S). An introduction to the use of microcomputers in physical education and allied disciplines. The course includes BASIC programming, selection and evaluation of hardware and software, and unique computer applications for physical educators.


Upper Division

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

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

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

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

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

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


PE 313 CONDITIONING PROCEDURES (1-2-2)(F). Instruction in conditioning procedures with emphasis on program planning, objectives, exercise analysis and prescription. PREREQ: Z 107 or Z 111-12.

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

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

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

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

PE 401-401G PSYCHO/SOCIAL ASPECTS OF ACTIVITY (3-0-3)(F/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 (3-3-3)(S). Instruction in advanced theory and application of techniques of athletic training for student pursuing a career as professional athletic trainer. PREREQ: PE 236, 311. Offered in spring on odd numbered years.

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


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

PE 406 THEORY AND APPLICATION OF THERAPEUTIC EXERCISE (2-2-3)(S). Introduction to the theory and application of physical exercise for the treatment of musculoskeletal disorders in athletics. Topics will include passive, assistive, 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 (3-0-3)(S). Instruction related to issues, trends and current administrative practices in health education. Emphasis placed upon topic sequencing, individual and social health problems and methods of teaching health related topics. PREREQ: Junior standing.

PE 416 HEALTH PROMOTION IN THE WORKSITE (2-0-2)(F). 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: Upper Division standing.

PE 422 INJURY EVALUATION (2-0-2)(F). Instruction in theory and application of basic passive and functional examination of traumatic conditions resulting from sports participation, emphasizing specific examination techniques. Offered in the fall on odd numbered years.

PE 430 COACHING-NATURE OF THE PROFESSION (2-0-2)(S). 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 (2-0-2). 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 (3-0-3)(S). Course is designed to acquaint physical educators with the unique needs of the disabled. Emphasis will be on planning activities, games, sports and exercise programs that will contribute to the special student's developmental health and wellness. PREREQ: PE 230, 310 and Senior Standing.

PE 457 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (2-0-2)(F/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: Upper Division standing.

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

PE 493 INTERNSHIP IN PHYSICAL EDUCATION (1-6 Credits)(F/S). 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 may be challenged for credit. All fitness activity courses are graded pass/fail whereby credit earned will count toward graduation but will earn no quality points to be used in calculation of the grade point average.

FA 160 STRETCH & TONE, FA 161 Aerobic Dance and FA 162 Adapted Physical Education may be repeated for credit.

Fitness activity course numbers provide the following information:

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

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

3. The third digit indicates a specific activity (example: 1—kayaking, 2—skiing and scuba diving, etc.).

Lower Division

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

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

FA 113 SWIMMING I (2-0-2)(F/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 (0-2-1)(S). Basic skills of rafting. Covers safe handling, self-rescue skills and helping or rescuing others. Students must be able to maintain themselves in deep water, fully clothed for ten minutes. Special Fee: full time students exempt. (Pass/Fail).

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

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

FA 117 SAILING (0-2-1)(F/S). Learn the basic techniques of sailing. Instruction 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 (0-2-1)(F/S). Learn proper cycling technique, bicycle mechanics, road safety and tour planning. Special fee: full time students exempt. (Pass/Fail).

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

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

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

FA 123 MODERN DANCE I (0-2-1)(F/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 (0-2-1)(S). Instruction and participation in dance fundamentals including: waltz, polka, jitterbug, fox trot, western swing, cha cha, samba, tango, folk, square, round dances, and mixers. (Pass/Fail).

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

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

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

FA 134 FENCING I (0-2-1). Instruction and participation in fencing for 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/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). Introduction to the mental and physical powers possessed by every individual. GI required. (Pass/Fail).


FA 150 WINTER MOUNTAINEERING (0-2-1)(F/S). Course designed to teach a person how to cope with the mountain winter environment in comfort and safety. Includes mountaineering techniques, first aid, snow shelter, avalanche 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. (Pass/Fail).

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


FA 155 FLYTYING I (0-2-1)(F/S). A practical orientation and application of flyfishing 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 SKEE SHOOTING I (0-2-1)(F/S). A course in fundamental skills of shotgun shooting. Sighting procedures, gun parts, care of equipment, and safety are stressed. Shotgun trap loading is also taught. Students must furnish shotgun, shells, and trap range fees. (Pass/Fail).

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

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

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

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

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

FA 163 JOGGING I (0-2-1). Instruction and participation in endurance running. The student will be pretested and placed in a level suitable to hisher capabilities system. (Pass/Fail).

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

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

FA 166 YOGA AND STRESS MANAGEMENT I (0-2-1). Introduction to yoga theory, practice, and tradition; introduction to stress/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 autogenic, meditation and tension reduction leading to self mastery. (Pass/Fail).

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

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

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

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

FA 183 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). Instruction and participation in soccer for development of fundamental skills, rules and basic team strategy. (Pass/Fail).

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

FA 191 VARSITY SPORTS I (0-2-1)(F/S). Instruction and participation in BSU Department of Athletic’s approved sports. Coach’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 216 WHITWATER CANOEING (0-2-1)(F/S). Students will canoe whitewater rivers and have the opportunity to experience surfing, eddy turns and river hydraulics. American Red Cross Certification is available. All equipment is supplied. Participants must be able to swim 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 II (0-2-1). Instruction and participation in intermediate modern dance for development of flexibility, balance, coordination and movement control, leading to dance choreography and production work. PREREQ: FA 123 (Pass/Fail).

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

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

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

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

FA 242 JUDO II (0-2-1). Instruction and participation in judo for those seeking advanced degrees. 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 259 CYCLE RACING (0-2-1)(F/S). Pre-race training, coping strategies, time trials, and triathlon competition are part of the content. Additional instruction includes bicycle maintenance and safety in racing and triathlon settings. Students must provide their own bicycles and helmets. Special fee: Full-time students exempt. (Pass/Fail).
College of Education

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 racquets and balls. PREREQ: FA 173. (Pass/Fail).

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

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

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

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

Upper Division

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


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

Department of Psychology

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

Chair and Professor: Linda J. Anooshian; Professors: Barsness, Chastain, Dodson, Ison, Snow, Steger; Associate Professors: Downs, Nelson, Nicholson, Thurfur; Assistant Professor: Leon; 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 should not regard successful completion of that program as a preparation to perform psychological services. Rather, the student should think of it as (1) a demonstration of educational attainment, like any other successful academic experience, and (2) preparation for more specialized training in professional or academic psychology in some related field.

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

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

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

Degree Requirements

PSYCHOLOGY MAJOR
Bachelor of Arts or Bachelor of Science Degree

1. Lower Division:

   a. Area I Total Credits .......................... 15-18
   b. Area II Total Credits .......................... 21
   c. Area III Total Credits .......................... 16
   d. Additional core courses any area ............. 9

2. Upper Division

   a. Psychology Total Credits .......................... 25
      Statistical Methods P 305 .......................... 3
      Experimental Design P 321 .......................... 4
      Psychophysical Measurement P 421 ......................... 3
      Learning P 441 .................................. 3
      Systems Seminar P 489 ................................ 3
      Electives in Psychology .............................. 9
   b. Upper Division Elective Credits ................. 15
   c. Free Elective Credits .............................. 24-27

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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<td>*Physiological Psychology P 225</td>
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**Course Offerings**

See page 20 for definition of course numbering system

**P PSYCHOLOGY**

**Lower Division**

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

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

P 141 SECOND MIND (3-0-2)(F). Course specifically designed for "re-entry" students; women and men 25 years of age or older who are returning to school, or preparing 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)(F). Career and Life Planning devotes three weeks to each of the following areas: (1) knowing self, (2) the world of work, (3) identifying resources, (4) actual career planning, and (5) proposed implementation of career and life plans. Students are expected to participate through work-study, interviews, visits and discussions and by arranging for resources pertinent to classroom activities. Pass/Fail. Limited enrollment. Cannot be used to meet Area II requirements.

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

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

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

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

P 261 HUMAN SEXUALITY (3-0-3)(F). An overview of human sexuality emphasizing both physiological and psychological aspects of sexuality. Topics include sexual anatomy and physiology, sexual response cycle, childbirth, contraception, sexual dysfunction, sex role development, and sexual deviation. Cross cultural values will be examined, and a values clarification included.

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

**Upper Division**

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


P 305 STATISTICAL METHODS (3-0-3)(F/S). Statistical concepts and methods commonly used in treatment of data in the social sciences. Topics covered will include: measures of central tendency and variability, correlation measures, probability and analysis of variance. PREREQ: P 101, High School Algebra.

P 311 CHILD PSYCHOLOGY (3-0-3)(F). 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. PREREQ: P 101.

P 312 ADOLESCENT PSYCHOLOGY (3-0-3)(F). Chronologically a continuation of child psychology P 311; the special conditions of adolescence, adjustment and growth, and the major forces which influence them will be emphasized in this course. Consideration will be given to maturational and social patterns, and to behavioral, learning and other problem areas. PREREQ: P 101.

P 313 PSYCHOLOGY OF AGING (3-0-3)(F). An examination of the functional changes occurring during the aging process. Topics will include contemporary methods in the study of aging, aging as a part of 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. PREREQ: P 101.

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

P 322 EXPERIMENTAL RESEARCH (1-4-3)(F). A research topic, along with its theoretical background and relevant empirical findings, will be supplied by the instructor to each student. The student will learn to operate the necessary apparatus, prepare instructions, explanation, and answer sheets, run subjects, analyze results, and write the research report in American Psychological Association style. PREREQ: P 321.

P 325 EDUCATIONAL PSYCHOLOGY (3-0-3)(F). A critical examination of some psychological concepts that have relevance to the process of education. PREREQ: 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, and similar problems. PREREQ: P 101.

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

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

P 345 THE PSYCHOLOGY OF LANGUAGE (3-0-3)(S). Examines language structure, types of grammar, problems of meaning, competence versus performance, whether all thinking is verbal, linguistic determinism, and cultural factors in language. PREREQ: P 101.
Department of Teacher Education

Education Building, Room 205
Telephone (208) 385-3602

Chairman and Professor: Kenneth L. Hill; Professors: Bieter, Bullington, Edmundson, Frederick, Hart, J. Jensen, Kirtland, Lambert, Sadler, Singh, Waite, K. Young, V. Young; Associate Professors: French, Horncade, M. Jensen, Lyons, Pearson, Spitzer, Suedmeyer; Assistant Professors: Bauwens, Guerin, Lindsey, Ritchie.
Coordinator of Foreign Languages and Associate Professor: Jay Fuhriman; Professors: Jocums, Valverde; Associate Professor: Robertson.

Degrees Offered

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

Department Statement

Education is a life-long activity and schools serve as a major force in promoting ongoing learning and growth by individuals and the society. Effective schools require teachers to understand theory and translate it into sound practice. The major purpose of the Department of Teacher Education is to prepare teachers who—

• critically analyze issues in education
• see teaching as a problem-solving activity
• draw on their backgrounds in liberal studies to make reasoned instructional decisions
• demonstrate commitment to ongoing professional development
• act in ways which reflect high standards of ethics
• utilize research information to make decisions about educational practices
• accommodate students who have special needs
• bring an understanding of the interdependence of a global society to an environment which is largely rural and homogeneous
• communicate to students and colleagues the joy of teaching and learning

The department devotes significant energy and resources to programs 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 inservice education programs. The department supports appropriate change efforts and provides technical assistance to school districts, government agencies, and the private sector. Applied research in education by faculty members is encouraged and supported.

The department provides courses and experiences in language study, research in education by faculty members is encouraged and supported.

114
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 make application to take this test during the second semester of their sophomore year. A passing score is the minimum score set by the Idaho State Board of Education for certification in Idaho. These tests are administered at specific times during the year. Students are responsible for making application to take the test through the BSU Counseling and Testing Center and are responsible for test fees. Students must have Educational Testing Service send the results of the NTE (National Teacher Exam) to the College of Education.
6. Students who exhibit problems in writing may be required to take a one-hour written English Qualification Examination (EQE) administered by the Department to determine specific problems. The EQE may be retaken upon remediation, but no more than two additional times. (This test is not the same as the English Competency Exam required by the English Department.)

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

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

Note: Elementary education majors make application for their first semester only. Application forms may be obtained from the Office of the Coordinator of Field Services.

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

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

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

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

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

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

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

Services for Students

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

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

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

Degree Requirements

ELEMENTARY EDUCATION MAJOR
Bachelor of Arts Degree

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

1. General University Requirements for BA Degree
   a. English Composition E 101-102 .......................... 3-6
      NOTE: Students not required to take E 101 must complete an 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.
### Recommended Program

#### ELEMENTARY EDUCATION MAJOR

<table>
<thead>
<tr>
<th>Course Description</th>
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<tbody>
<tr>
<td>English Composition E 101-102</td>
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<tr>
<td>Concepts of Biology (AREA III) B 100</td>
<td>4</td>
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<tr>
<td>Physical Science (AREA III) PS 100</td>
<td>4</td>
</tr>
<tr>
<td>Intro to Teaching I Class Observation TE 171</td>
<td>1</td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
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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 Social Science: U.S. History</td>
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<td>AREA II, Geography GG 101 or 102</td>
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<td>AREA II, Economics or Political Science</td>
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<tr>
<td>Music Fundamentals MU 101</td>
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<tr>
<td>Music Methods for the Elem School Teacher MU 371</td>
<td>2</td>
</tr>
<tr>
<td>Elementary School Art Methods AR 321</td>
<td>3</td>
</tr>
<tr>
<td>Elementary School P.E. Methods PE 361</td>
<td>3</td>
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<tr>
<td>Educational Psychology P 325</td>
<td>3</td>
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<tr>
<td>Child Psychology P 311</td>
<td>3</td>
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<td>Speech Comm for Teachers CM 311 suggested</td>
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#### SOPHOMORE YEAR

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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>
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<tr>
<td>Intro to Teaching II: Instr Exper 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>
</tr>
<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>
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<tr>
<td>AREA I Second Field (E 271 or E 272)</td>
<td>3</td>
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<tr>
<td>AREA I Additional Literature Course</td>
<td>3</td>
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<tr>
<td>AREA II Social Science: SO 230 or AN 182</td>
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<td>AREA II Elective</td>
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<td><strong>TOTAL</strong></td>
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#### JUNIOR YEAR

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<tr>
<th>Course Description</th>
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<tr>
<td>Teaching Beginning Developmental Reading K-3 TE 305</td>
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<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>
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<tr>
<td>Elementary School Art Methods AR 321</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

#### SENIOR YEAR

First Semester:
- Classroom Management Skills TE 457                                               | 2       |
- Elem Curriculum & Methods TE 451                                                  | 6       |
- Elementary Student Teaching TE 471                                                | 5       |

Second Semester:
- Advanced Curriculum and Methods TE 452                                             | 6       |
- Elementary Student Teaching TE 472                                                | 5       |

OR
- Student Teaching: Special Education TE 473                                          | 6       |

**TOTAL**                                                                             | **30**  |

### 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**
- Intermediate Spanish (AREA I) S 201                                              | 4       |
- Intermediate Spanish (AREA I) S 202                                               | 4       |
- Advanced Spanish S 303                                                              | 3       |
- Advanced Spanish S 304                                                              | 3       |

**TOTAL**                                                                             | **14**  |

**English As a Second Language (ESL) Section**
- Foundations of Teaching English as a 2nd Language TE 202                           | 2       |
- Methods of Teaching English as a 2nd Language TE 456                               | 3       |
- Introduction to Language Study LI 305                                              | 3       |
- Applied Linguistics in Teaching Engl as 2nd Lang LI 407                             | 3       |

#### English Section
- English Composition E 101                                                          | 3       |
- English Composition E 102                                                          | 3       |

**TOTAL**                                                                             | **6**   |

#### MULTICULTURAL COMPONENT

- Survey of American Lit (AREA I) E 271 or 272                                       | 3       |
- Intro to Multi-Ethnic Studies (AREA II) SO 230                                     | 3       |
- United States History (AREA II) HY 151 or 152                                      | 3       |
- Cultural Anthropology (AREA II) AN 102                                             | 3       |
- Mexican American Tradition & Culture in Elem Class TE 278                          | 2       |

**TOTAL**                                                                             | **14**  |

#### MATH/SCIENCE COMPONENT

- Math for Elementary Teachers M 103                                                 | 4       |
- Math for Elementary Teachers M 104                                                 | 4       |
- Concepts of Biology (AREA III) B 100                                               | 4       |
- Electives (Choose 2 from AREA III)                                                 | 6       |
- (One must be Physical or Earth Science: GO 100 or PS 100 recommended)              |         |

**TOTAL**                                                                             | **20**  |

#### PROFESSIONAL COMPONENT

**General Education Section**
- Elementary School Art Methods AR 321                                              | 3       |
- Music Methods for Elementary Teachers MU 371                                      | 2       |
- Educational Psychology P 325                                                       | 3       |
- Child Psychology P 311                                                             | 3       |
- Elem School P.E. Methods PE 361                                                   | 3       |

**TOTAL**                                                                             | **14**  |

**Teacher Education Section**
- Intro to Teach I: Class Observation TE 171                                         | 1       |
- Foundations of Education (AREA II) TE 201                                          | 3       |

**TOTAL**                                                                             | **4**   |
Intro to Teach II: Instruct Experience TE 271 ........................................ 1
Teaching Beginning Developmental Reading K-3 TE 305 ....................... 3
Teaching Developmental & Content Reading 4-6 TE 306 ......................... 3
Children's Literature TE 316 .............................................................. 3
Elementary Curric & Methods TE 451 .................................................. 6
Elementary Curric & Methods TE 452 .................................................. 6
Teaching Read & Lang Arts in Biling Class TE 453 ............................... 2
Student Teaching in Elem Class TE 474-475 ....................................... 10
TOTAL ................................................. 38

Total Professional Component ......................................................... 52

ELECTIVES

Because of the need to prepare future teachers to teach in both bilingual and non-bilingual classrooms, it is recommended that elective 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 384 Literature of the American West
- HV 261 History of Minorities in the U.S.
- HV 365 Indians in American History
- HY 261 History of Minorities in the U.S.
- 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 SynopSis of Mexican American People
- SO 305 Racial and Cultural Minorities
- TE 208 Introduction to Microcomputers in Education
- TE 291 Education of the Exceptional Child
- TE 358 Corrective Reading

BILINGUAL TEACHER TRAINING TOTAL HOURS .............................. 130

RECOMMENDED PROGRAM

ELEMENTARY BILINGUAL/MULTICULTURAL MAJOR

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>Elective AREA I...........................................</td>
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<tr>
<td>Intermediate Spanish S 201................................</td>
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<td>General Psychology P 101................................</td>
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<tr>
<td>English Composition E 101-102...........................</td>
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<tr>
<td>Intro to Teaching I: Class Observation TE 171......</td>
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<tr>
<td>Math for Elementary Teachers M 103.....................</td>
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<td>Concepts of Biology B 100................................</td>
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<tr>
<td>Cultural Anthropology AN 102............................</td>
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SOPHOMORE YEAR

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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>
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<tr>
<td>Survey of American Literature E 271 or 272.........</td>
<td>3</td>
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<tr>
<td>Foundations of Education TE 201.......................</td>
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<td>Intro to Teaching II: Instruct EXP TE 271...........</td>
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<td>Advanced Spanish S 303-304.............................</td>
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<td>Elective (AREA III).....................................</td>
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<tr>
<td>U.S. States History E 191 or 192.......................</td>
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<tr>
<td>Found of Teach English as 2nd Lang TE 202..........</td>
<td>2</td>
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<tr>
<td>Mex-Amer Tradition &amp; Culture in Elem Class TE 278..</td>
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JUNIOR YEAR

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<td>Elementary School Art Methods AR 321................</td>
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<tr>
<td>Introduction to Language Study LI 305..............</td>
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<tr>
<td>Teaching Beginning Developmental Reading K-3 TE 305</td>
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<td>Teaching Developmental &amp; Content Reading 4-6 TE 306</td>
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<td>Music Methods for Elem Teacher MU 371................</td>
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<td>Elective (AREA III).....................................</td>
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<td>Child Psychology P 311..................................</td>
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<tr>
<td>Children's Literature TE 316...........................</td>
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SOPHOMORE YEAR

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<th>Course</th>
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<tr>
<td>Elective..................................................</td>
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<tr>
<td>Methods of Teaching ESL TE 456.......................</td>
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<tr>
<td>Elementary Curriculum &amp; Methods TE 451..............</td>
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<tr>
<td>Student Teaching in Biling Elem Class TE 474-475..</td>
<td>10</td>
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<tr>
<td>Elementary Curriculum &amp; Methods TE 452..............</td>
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<tr>
<td>Teaching Read &amp; Lang Arts in Biling Class TE 453..</td>
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<td>TOTAL..................................................</td>
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Total Hours...................................................... 130

SUBJECT AREA ENDORSEMENTS

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

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

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

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

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

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

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

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

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

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

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

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

MATHEMATICS— Two levels of mathematics endorsement:

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

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

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

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

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

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

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

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

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

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

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

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

**SPECIAL EDUCATION—Elementary Emphasis:** Students desiring to teach the handicapped may enroll in one of the following programs and upon successful completion may be recommended for Idaho certification.

This program has been designed so students may pursue a dual emphasis leading to certification as a special educator and 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)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education of the Exceptional Child TE 291</td>
<td>3</td>
</tr>
<tr>
<td>Technology in Special Education TE 340</td>
<td>3</td>
</tr>
<tr>
<td>Teaching Special Education TE 336</td>
<td>3</td>
</tr>
<tr>
<td>Teaching Mildly Handicapped Adolescents TE 335</td>
<td>3</td>
</tr>
<tr>
<td>Diagnosis of the Handicapped TE 430</td>
<td>3</td>
</tr>
<tr>
<td>Teach Read &amp; Written Express to the Handicapped TE 431</td>
<td>3</td>
</tr>
<tr>
<td>Teaching Math and Language to the Handicapped TE 432</td>
<td>3</td>
</tr>
<tr>
<td>Behavior Intervention Techniques TE 450</td>
<td>3</td>
</tr>
<tr>
<td>Classroom Management Skills TE 457</td>
<td>2</td>
</tr>
<tr>
<td>Elementary Student Teaching in Special Education TE 473</td>
<td>5</td>
</tr>
<tr>
<td>TOTAL</td>
<td>30</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching the Severely Handicapped TE 423</td>
<td>3</td>
</tr>
<tr>
<td>Studt Teach in Classes for Severely Handicap TE 476</td>
<td>5</td>
</tr>
</tbody>
</table>

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>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Behav &amp; Mgmt in Early Childh Educ TE 361</td>
<td>3</td>
</tr>
<tr>
<td>Curriculum in Early Childh Education TE 362</td>
<td>3</td>
</tr>
<tr>
<td>Internship in Early Childh Educ TE 293-493</td>
<td>2</td>
</tr>
<tr>
<td>Create Materials in Early Childh Educ TE 465</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives 5 credits:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infant Education TE 463G</td>
<td>3</td>
</tr>
<tr>
<td>Diagnosis of the Handicapped TE 430</td>
<td>3</td>
</tr>
<tr>
<td>Children's Theatre TA 287</td>
<td>3</td>
</tr>
<tr>
<td>Human Growth and Motor Development PE 205</td>
<td>2</td>
</tr>
</tbody>
</table>

NOTE: This emphasis requires 21 credit hours, 5 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

**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**


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 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. Information about the candidate's selection of courses and 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 requirement:

Idaho requires a minimum of 20 semester credit hours "in the philosophical, psychological, and methodological foundations 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>Alternatives</th>
<th>Single</th>
<th>Dual</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Intro to Second Teach: Classroom Obs. TE 172</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Foundations of Education TE 201</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Educ. Exceptional Second Students TE 333</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>*Educational Technology TE 336</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Reading in Content Subjects TE 407</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Educational Psychology P 325</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Secondary School Methods TE 381</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Special Methods required by Major Department (varies by major)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Junior High Student Teach Dual Option TE 482</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Senior High Student Teach Dual Option TE 483</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Junior High Student: Single Option TE 484</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Senior High Student: Single Option TE 485</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total (not including special methods)</td>
<td>26</td>
<td>32</td>
</tr>
</tbody>
</table>

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

Secondary Student Teaching

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

Students choosing the Single alternative may select either junior or senior high school for their student teaching. Normally, the request can be granted and the student teacher will usually teach only in his major field(s). 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 above.

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

Minor Certification Endorsements

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

ANTHROPOLOGY

Social Science Major
- Physical Anthropology AN 101
- Cultural Anthropology AN 102
- Peoples and Cultures of the World AN 311
- Additional upper division Anthropology

TOTAL 21

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

TOTAL 21

ART

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

TOTAL 22

BIOLOGY

General Botany BT 130
- General Zoology Z 130
- Cell Biology B 301
- Genetics & Lab B 343, 344
- Elective course in Botany
- Elective course in Zoology

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**: 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
- **Intercultural Communication CM 351**: 3
- **Total**: 21

### EARTH SCIENCE

- **Physical Geology GO 101**: 4
- **Historical Geology GO 103**: 4
- **Introduction to Oceanography GO 201**: 3
- **Introduction to Meteorology GO 213**: 3
- **Introduction to Descriptive Astronomy PH 105**: 3
- **Electives selected from**: 3
- **Geology of Idaho & Pacific NW GO 213**: 3
- **Mineralogy GO 221**: 4
- **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 302**: 3
- **Intermediate Macroeconomics EC 305**: 3
- **Upper Division Economics Courses**: 9
- **Total**: 21

### ENGLISH

- **Advanced Composition E 201**: 3
- **Survey of American Literature E 271 or 272**: 3
- **Teaching English Composition E 301 OR Methods of Teaching Secondary School English E 381**: 3
- **Lower Division Literature E 230, 235, 240, 250**: 3
- **Upper Division Literature**: 6
- **Successful completion of secondary writing proficiency**: 0
- **Total**: 24

### FOREIGN LANGUAGE

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

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

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

### GEOGRAPHY

- **Introduction to Geography GG 101**: 3
- **Cultural Geography GG 102**: 3
- **Upper Division Geography (minimum)**: 6
- **Additional Geography Courses (minimum)**: 8
- **Total**: 20

### HEALTH EDUCATION FOR NON-PHYSICAL EDUCATION MAJORS

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

### HEALTH EDUCATION MINOR FOR PHYSICAL EDUCATION MAJORS

- **First Aid Instr Trgn Course PE 123**: 1
- **Health Prog: Meth & Adm PE 415**: 3
- **Nutrition H 207**: 3
- **ELECTIVES: Select two (6)**
  - **Drugs, Use and Abuse H 109**: 3
  - **Human Sexuality P 261**: 3
  - **Consumer Health PE 405**: 2
- **Total**: 13

### HISTORY

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

### MATHEMATICS

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

### MUSIC

- **Instrumental Track**
  - **Materials of Music MU 119-120**: 8
  - **Ear Training MU 121-122**: 2
  - **Introduction to Music MU 133**: 3
  - **Basic Conducting MU 261**: 1
  - **Orientation to Music Education MU 271**: 1
  - **1 year Applied Music**: 4
  - **1 year Major Performance Ensemble**: 2
  - **String Instrument Methods & Tech MU 257**: 2
  - **Woodwind Methods & Tech MU 266**: 2
  - **Intrumental Conducting MU 366**: 1
  - **Percussion Methods & Tech MU 368**: 2
  - **Brass Methods & Tech MU 369**: 2
  - **Band & Orchestra Methods & Materials MU 385**: 2
- **Total**: 32
### Choral Track
- Materials of Music MU 119-120 ........................................... 8
- Ear Training MU 121-122 .................................................. 2
- Vocal Techniques MU 256 ................................................. 3
- Basic Conducting MU 261 .................................................. 1
- Orientation to Music Education MU 271 ............................. 1
- 1 year Applied Music (Voice or Piano) ............................... 4
- Choral Conducting MU 363 ................................................... 1
- Choral Methods and Materials MU 383 ............................... 2

**TOTAL** 30

### PHYSICAL EDUCATION

#### Coaching Endorsement for Physical Education Majors
- Child Psychology P 311 .................................................... 3
- Dance for Children PE 357 .................................................. 2
- Elem School/PE Methods PE 361 ........................................... 3
- Motor Programming for Special Programs PE 369 .................. 3
- Elementary Student Teaching TE 477 .................................. 3

**TOTAL** 13-16

#### Coaching Endorsement for Non-Physical Education Majors
- An'atomy & Physiology Z 107 or Z 111-112 ........................ 4-8
- Motor Programming for Special Populations PE 369 .............. 2
- Elementary Student Teaching TE 477 .................................. 3
- Anatomy & Physiology Z 107 or Z 111-112 ........................ 4-8

**TOTAL** 28-31

#### Athletics Training Minor for Physical Education Majors
- Essen of Chemistry & Labs C 107-110 ................................. 8
- Medical Terminology H 101 ................................................ 3
- Nutrition H 207 .................................................................... 3
- Training Room Procedures PE 120 ....................................... 1
- Intro Athletic Injuries PE 236 .............................................. 1
- Internship-Athl Trgn PE 293 .............................................. 3
- Conditioning Procedures PE 313 ....................................... 2
- Psych/Soc Aspects of Activity PE 401 ................................ 3
- Advanced Athletic Training PE 402 .................................. 3
- Training Room Modalities PE 403 ..................................... 2
- Injury Evaluation PE 422 ..................................................... 2
- Theory & Appl of Therapeutic Exercise PE 406 ................. 3
- Internship-Athl Trgn PE 493 .............................................. 3
- Fitness Testing PE 404 ....................................................... 2

**TOTAL** 34

#### Coaching Endorsement for Non-Physical Education Majors
- Anatomy & Physiology Z 107 or Z 111-112 ........................ 4-8
- Motor Programming for Special Programs PE 369 .............. 2
- Elementary Student Teaching TE 477 .................................. 3

**TOTAL** 13-16

#### Physical Education

<table>
<thead>
<tr>
<th>Area</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NATURAL SCIENCE</strong></td>
<td></td>
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</tr>
<tr>
<td>Complete the basic sequence of courses in</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BT 130 and Z 130</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry C 107, 108, 109, 110</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geology GO 101-103</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physics PH 101-102</td>
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<td><strong>TOTAL</strong></td>
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#### PHYSICAL EDUCATION

<table>
<thead>
<tr>
<th>Area</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Athletics Training Minor for Physical Education Majors</strong></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Essen of Chemistry &amp; Labs C 107-110</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Medical Terminology H 101</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Nutrition H 207</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Training Room Procedures PE 120</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Intro Athletic Injuries PE 236</td>
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<td>3</td>
</tr>
<tr>
<td>Internship-Athl Trgn PE 293</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Conditioning Procedures PE 313</td>
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<td>2</td>
</tr>
<tr>
<td>Psych/Soc Aspects of Activity PE 401</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Advanced Athletic Training PE 402</td>
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<tr>
<td>Training Room Modalities PE 403</td>
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<td>2</td>
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<tr>
<td>Injury Evaluation PE 422</td>
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<tr>
<td>Theory &amp; Appl of Therapeutic Exercise PE 406</td>
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<td>3</td>
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<td>Internship-Athl Trgn PE 493</td>
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<td>3</td>
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<tr>
<td>Fitness Testing PE 404</td>
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<td>2</td>
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<td><strong>TOTAL</strong></td>
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<tr>
<th>Area</th>
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<tbody>
<tr>
<td><strong>Coaching Endorsement for Non-Physical Education Majors</strong></td>
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<td>4-8</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology Z 107 or Z 111-112</td>
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<td>4-8</td>
</tr>
<tr>
<td>Motor Programming for Special Programs PE 369</td>
<td></td>
<td>2</td>
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<tr>
<td>Elementary Student Teaching TE 477</td>
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<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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<td>13-16</td>
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<table>
<thead>
<tr>
<th>Area</th>
<th>Courses</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Coaching Endorsement for Physical Education Majors</strong></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Two Coaching Methods Courses</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Two Youth Sport Internships PE 293</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Conditioning Procedures PE 313</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Psych/Soc Aspects of Activity PE 401</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Coaching, Nature of Profession PE 430</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Internship-Interscholastic Sports PE 493</td>
<td></td>
<td>3</td>
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<td><strong>TOTAL</strong></td>
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<td>Theatre History TA 421 or 422</td>
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**TOTAL** 21
FL GERMAN

NOTE: Most German 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 presentations, 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. Admission to Teacher Education.

FR FRENCH

NOTE: Most French Courses require a lab fee.

Lower Division

F 101-102 ELEMENTARY FRENCH (4-1-4)(FS). 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, conversa-
tion 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 (4-0-4). A self-paced, taped programmed course which provides for practice in pronunciation, reading, writing, grammatical analysis and conversation. One period of conversation prac-
tice per week required.

F 201-202 INTERMEDIATE FRENCH (4-1-4)(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.

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 1775 to 1939, with emphasis on prose. May be repeated once for credit. PREREQ: F 202 or equivalent. Alternate years.

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, Ayme, Beckett, Sarre, Camus, Levy-Strauss and Chardin among others. PREREQ: F 202 or equivalent. Alternate years.

F 376 LA CIVILISATION FRANCAISE HISTORIQUE (3-0-3). Studies in the development and expansion of French culture from pre-history to the French Revolu-
tionary period. 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 "ancien regime," the French Revolu-
tionary period; history, politics, art, geography, literature, music and science; assessment of France's contribution to the modern democracies. PREREQ: F 202 or PERM/DEPT. Alternate years.

G GERMAN

NOTE: Most German Courses require a lab fee.

Lower Division

G 101-102 ELEMENTARY GERMAN (4-1-4). Listening, speaking, reading and writing skills in cultural framework. May not enroll in G 101 for credit with more than one year of high school German or equivalent with PERM/INST. Students in G 102, lacking adequate preparation may drop back to G 101.

G 101-P, 102-P PROGRAMMED ELEMENTARY GERMAN (0-4-4). Self-paced course; programmed texts, taped conversations, informal meetings with instructor. Performance tests at student's pace. Work in language lab or access to cassette player needed. May not enroll in G 101-P with more than one year high school German or equivalent except with PERM/INST. Students lacking adequate preparation may do so.

G 201-202 INTERMEDIATE GERMAN (4-1-4)(AREA I). 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 (3-0-3). Major writers and periods provide samples from various genres and an overview of German literary development. The course is intended to pro-
vide insights into literary craftsmanship. PREREQ: G 202 or equivalent as deter-
mined 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 contribu-
tions of Germany, Austria, and Switzerland to western civilization. Class con-
ducted 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 learn-
ing practices. Analysis of ways in which traditional, descriptive, and transforma-
tional models deal with phonology, morphology and syntax. PREREQ: LI 305 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 STORM UND DRANG (18TH CENTURY-3-0-3). Essays, plays, fictional prose and poetry marking the intellectual ferment of the Enlighten-
ment and the "Storm and Stress." Selections from Gottsched, Haller, Klopstock, Lichtenberg, Kant, Herder, Lessing, J.M.R. Lenz, the early Goethe and Schiller, etc. PREREQ: G 331 or PERM/INST. Alternate years.

G 425 DER TRAUM DER ANTIKE UND DIE TRAUMWELT (1700-1830)-3-0-3). Readings from the classical and romantic periods in their general literary and histori-
cal 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 Goerings", Handel, Goethe, Klopstock, Stifter, Storm, C.F. Meyer and others. PREREQ: G 331 or PERM/INST. Alternate years.

G 445 DIE MODERNE ZEIT BEGINNNT (1890-1945)(3-0-3). "isms," trends and writers from the turn of the century, through the Weimar Republic, to the col-
lapse 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 WAR..." (1945-present)(3-0-3). Selections will be taken from the authors, essayists, dramatists and poets who have appeared on the stage 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 BAUER, GOTT UND MENSCH (1150-1720)(2-0-2). Survey: Mid-
dle 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 con-
temporary 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 PERM/INST. Alternate years.

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

SEE HISTORY DEPARTMENT COURSE OFFERINGS FOR GREEK AND LATIN COURSE DESCRIPTIONS.
LS LIBRARY SCIENCE COURSES

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

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

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

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

LS 311 REFERENCE AND BIBLIOGRAPHY (3-4-3)(On demand). Introduction to evaluation and use of basic reference sources, principles, techniques and issues of reference service. Includes coverage of standard reference books, abstracts, indexes, and bibliographies found in school or small public libraries. PREREQ: LS 201 or PERM/INST.

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

LS 331 CATALOGING AND CLASSIFICATION (3-0-3)(On demand). Theory and principles of classification and cataloging of book materials, practice using Dewey Decimal Classification, preparing catalog cards, assigning subject headings and library 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. Classes meet four times a week, and there is one hour per week of required laboratory practice. The class is conducted in Russian. Alternate years. PREREQ: Senior standing or PERM/INST.

S SPANISH
NOTE: Most Spanish courses require a lab fee.

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

S 201-202 INTERMEDIATE SPANISH (4-1-4)(AREA B). Intended to develop further Spanish language skills, both oral and written. Intensive review of fundamentals of structure and vocabulary. Topics for conversation, reading, and writing focus upon culture of the Hispanic countries. PREREQ: S 102 or equivalent as determined by placement examination and consultation.

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

Upper Division
S 303 ADVANCED SPANISH CONVERSATION AND COMPOSITION (3-0-3). Expands facility in expressive conversation as well as accuracy in writing Spanish. Offers analysis of grammar and expansion of vocabulary through cultural and literary readings. Discussion of topics related to Hispanic contemporary trends, current events, everyday life and other themes of immediate concern to the student. PREREQ: S 202 or equivalent as determined by placement examination and consultation. Alternate years.

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

S 331 INTRODUCTION TO HISPANIC LITERATURES AND LITERARY ANALYSIS (3-0-3). A theoretical and practical study of literary analysis, the different genres, movements and periods of Hispanic literature, including the various approaches to literary explication, interpretation and criticism, using as models some of the major works of Hispanic literature. PREREQ: S 202 or equivalent as determined by placement examination and consultation.

S 377 CULTURA Y CIVILIZACION HISPANOAMERICANA (3-0-3). Spanish-American civilization from ancient origins to contemporary times. An intensive analysis of the political, cultural, economic and social developments of the Hispanic nations, and their contributions to the western world. Discussions in Spanish; some readings in English. Papers required. PREREQ: S 202 or equivalent as determined by placement examination and consultation.

S 385 LA GENTE MEXICANA-AMERICANA EN LOS ESTADOS UNIDOS (3-0-3). Deals with the historical works of Mexican-Americans, through the Spanish conquest of Mexico and the Colonial period, the Mexican-American War, and the development of the Mexican-American population in the United States over the past 130 years. Readings and papers in Spanish and English required. PREREQ: S 304 or equivalent. Alternate years.

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

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

S 425 LITERATURA MEXICANA-AMERICANA (3-0-3). Representative writings by major Mexican-American authors, with emphasis on social and literary values. PREREQ: S 311 or PERM/INST. Alternate years.

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

S 437 LITERATURA CONTEMPORANES HISPANOAMERICANA (3-0-3). Literature of ideas in contemporary Spanish-America through major representative authors and works. Genesis of modern thought and new perspectives in today's Hispanoamerica. PREREQ: S 331 or PERM/INST. Alternate years.

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

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

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

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

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

S 475 EVENTOS CONTEMPORANEOS DE GENTES Y PAISES HISPANOHABLANTES (3-0-3). A lecture and discussion course based on current social, economic, cultural and political events as faced by Spanish-speaking nations. Special attention is given to a comparative examination and analysis of the people, viewpoints, and institutions, as well as the problems, issues and trends facing this people in their respective countries today. PREREQ: S 376 or S 377 or S 304 or PERM/INST.

S 498 SENIOR SEMINAR (3-0-3). Exploration of fields of special interest, either literary or social studies oriented, under individual thought and research culminate in a paper to be presented to the seminar. Practical application of independent study approaches, research methods, and bibliography format. Required of all Spanish majors with Liberal Arts emphasis. PREREQ: Senior standing or PERM/INST.
TEACHER EDUCATION

**Lower Division**

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

**TE 171 INTRODUCTION TO TEACHING I: CLASSROOM OBSERVATION (1-0-1)/F/S).** This course will provide the student with an introduction to the elementary school and the role of the teacher. Topics will include areas of specialization within the profession and a self-awareness of potential as an elementary school teacher. A minimum of ten hours of classroom observation and weekly seminar with a university instructor will be required.

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

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

**TE 202 FOUNDATIONS OF TEACHING ENGLISH AS A SECOND LANGUAGE (2-0-2)/F/S/SU).** This course is designed to give the student a background in the psychological, linguistic, and cultural foundations of teaching English as a Second Language. The student will also consider the development of instructional materials and methods of teaching English as a Second Language. The course will also include an overview of current trends in ESL and of the preparation needed to teach ESL.

**TE 208 INTRODUCTION TO MICROCOMPUTERS IN EDUCATION (3-0-3).** This course introduces students to the use of microcomputers in education. Students will study the BASIC language, terminology and concepts. Students will explore the possibilities and limitations of computer assisted instruction in the classroom. $10.00 lab fee.

**TE 216 GRAMMAR AND LANGUAGE USAGE FOR TEACHERS (3-0-3S).** This course will provide instruction in the content of language arts curriculum generally taught in grades 4-8. Students will study the developmental sequence of grammar, punctuation, spelling, and language study appropriate to each grade level. The course will also include an introduction to writing instruction.

**TE 271 INTRODUCTION TO TEACHING II: INSTRUCTIONAL EXPERIENCE (1-2-1)/F/S).** This course will provide students with an opportunity to assist a teacher with a variety of instructional activities. Students will participate in seminars and a minimum of thirty hours of direct instructional experiences in the classroom which may include primary or upper grade special education, reading and pre-school classrooms. PREREQ: TE 171.

**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 and its influence on the contemporary American language, linguistics, dance, art, folklore, customs, beliefs, and institutions. Conceived in English. Offered in English.

**TE 291 EDUCATION OF THE EXCEPTIONAL CHILD (3-0-3).** The course shall provide students an opportunity to develop knowledge and skills related to the education of the exceptional child through presentations and readings. All categories of exceptionality shall be explored as to their 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). Students will learn how to teach reading in the primary grades by studying reading readiness, word recognition, vocabulary, and comprehensive development. Competency in teaching the basal reader and language experience approaches will be demonstrated. Additions: A topic will include organizing reading instruction and fostering recreational reading. PREREQ: TE 271 or PERM/INST.**

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

**TE 316 CHILDREN'S LITERATURE (3-0-3)/F/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 (2-0-2)/F/S).** Familiarizes future teachers with language proficiency tests. Instruments such as the Language Assessment Scales, Bilingual Syntax Measure, Basic Inventory of Natural Language, Language Dominance Test, Peabody Picture Vocabulary Test are studied. Students will learn to administer and interpret the results of these and other tests so as to properly place students in a level of ESL study.

**TE 333 EDUCATING EXCEPTIONAL SECONDARY-AGE STUDENTS (1-0-1)/F/S).** 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).** The course is designed to provide the special education teacher an insight into and understanding of inclusion for the handicapped. Topical presentations and activities include legal and educational implications, consulting 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 (3-0-3S).** Five topical areas related specifically to mildly handicapped adolescents will be examined. These are: Assessment procedures, eligibility criteria, service delivery options, instructional techniques, and instructional strategies. PREREQ: TE 344 or PERM/INST.

**TE 340 TECHNOLOGY IN SPECIAL EDUCATION (2-0-2).** This course introduces special educators to uses of computers and technology that are especially valuable for students with exceptionalities. 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 208 or PERM/INST.

**TE 341 LITERATURE FOR YOUNG ADULTS (3-0-3S).** This course will provide an approach to the literature for the elementary or secondary school pupil for approximately 20 sessions. PREREQ: Admission to Teacher Education.

**TE 342 LITERATURE FOR MIDDLE SCHOOL (3-0-3S).** The course is designed to provide an introduction to the literature for the middle school student and the development of classroom and home resources. PREREQ: Admission to Teacher Education.

**TE 344 TEACHING MILDLY HANDICAPPED STUDENTS (3-0-3S).** This course is designed to familiarize the students with the characteristics, needs, and educational implications of mildly handicapped students. PREREQ: Admission to Teacher Education.

**TE 345 SECONDARY SCHOOL SOCIAL STUDIES METHODS (3-0-3S).** This course is designed to prepare future teachers for teaching social studies in the secondary level. Emphasis is placed on the development of teacher competency in the theoretical and practical background for the teaching of social studies in grades 7-12. PREREQ: Admission to Teacher Education.

**TE 346 EDUCATIONAL TECHNOLOGY (2-0-2)/F/S).** This course will examine the role of technology in the educational setting. It will address the use of computers and technology in the classroom and the role of technology in the educational setting. PREREQ: TE 305.

**TE 347 SECONDARY SCHOOL SOCIAL STUDIES METHODS (3-0-3S).** This course will provide instruction in the content of the secondary social studies curriculum generally taught in grades 9-12. Students will also study the development of instructional 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 348 SECONDARY SCHOOL METHODS (3-0-3S).** This course is designed to provide instruction in the content of the secondary school curriculum generally taught in grades 9-12. Students will study the development of instructional 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 349 SECONDARY SCHOOL METHODS (3-0-3S).** This course is designed to provide instruction in the content of the secondary school curriculum generally taught in grades 9-12. Students will study the development of instructional 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 350 CORRECTIVE READING (3-0-3S).** 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 351 CHILD BEHAVIOR AND GUIDANCE IN EARLY CHILDHOOD EDUCATION (3-0-3).** The influence of the 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 (3-0-3S).** The preschool-primary curriculum will be examined in relation to readiness and academic skill development. An understanding of effective communications and conveying skills with parents will be emphasized. A variety of early childhood settings will be visited. PREREQ: Admission to Teacher Education.

**TE 381 SECONDARY SCHOOL METHODS (3-0-3).** A study of the secondary school curriculum 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 (3-0-3S).** This course provides the theoretical and practical background for science instruction at the secondary level. Emphasis is placed on the development of teacher competency in 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. Prior completion of TE 362 Secondary School Methods is recommended. PREREQ: Admission to Teacher Education.

**TE 385 SECONDARY SOCIAL STUDIES METHODS (3-0-3S).** 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, Admission to Teacher Education.

**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. PREREQ: TE 393.
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 this school's role in safety relative to other public and private agencies.

TE 407-407C READING IN THE CONTENT SUBJECTS (3-0-3S)/5/5SU. 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 (3-0-3P). 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. Admission to Teacher Education.

TE 423-423G TEACHING THE MODERATELY AND SEVERELY HANDICAPPED (3-0-3S). This course is designed to assist students in gaining skills necessary for teaching the moderately and severely handicapped. Updating of information and skills relative to research in this area will be given high priority.

TE 430 DIAGNOSIS OF THE HANDICAPPED (3-0-3P). Provides for the development of skills in identification and diagnosis of students referred for evaluation. PREREQ: Admission to Teacher Education.

TE 431 TEACHING READING AND WRITTEN EXPRESSION TO THE HANDICAPPED (3-0-3P). The course details 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 (low or learning disabled) and students with mild to moderately mentally retarded. PREREQ: Admission to Teacher Education.

TE 432 TEACHING MATH AND LANGUAGE TO THE HANDICAPPED (3-0-3S). 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 emotionally disturbed, learning disabled, and mildly-moderately mentally retarded. PREREQ: TE 430 or PERM/INST. Admission to Teacher Education.

TE 450-450G BEHAVIOR INTERVENTION TECHNIQUES (3-0-3S). This course is designed for teachers, counselors, and administrators 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 (6-0-6F). 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 school children (K-6). First course in a two semester sequence. PREREQ: M 103, 104. Admission to Teacher Education.

TE 452 ELEMENTARY CURRICULUM AND METHODS (6-0-6F). 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 school children (K-6). PREREQ: TE 451. Admission to Teacher Education.

TE 453 TEACHING READING AND LANGUAGE ARTS IN THE BILINGUAL CLASSROOM (3-0-2). Develops an understanding of various approaches to reading instruction. Includes review of materials and media, development of criteria for selection of appropriate instructional materials, instruction given in both English and Spanish. PREREQ: S 101, 102, 201, and 202 or S 203. Admission to Teacher Education.

TE 454 TEACHING CONTENT IN THE BILINGUAL CLASSROOM (3-0-3S). This course includes instructional strategies and techniques in mathematics, science and social studies for use in the elementary classroom. Instruction will be presented in both the Spanish and English languages. PREREQ: S 202 or PERM/INST. Admission to Teacher Education.

TE 456 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE (3-0-3S). 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: TE 221, 322.

TE 457 CLASSROOM MANAGEMENT SKILLS (3-0-2F). This course will provide prospectiveelementary and special education teachers with skills for establishing and maintaining productive student learning. Practical, specific actions teachers can take to promote appropriate behavior and effective relationships will be learned. PREREQ: P 311, P 325.

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

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

TE 472 ELEMENTARY STUDENT TEACHING (2-0-6F). Observation and supervised teaching. PREREQ: Approval of an application for student teaching. Graded pass/fail.

TE 473 ELEMENTARY STUDENT TEACHING IN SPECIAL EDUCATION (3-0-3F). 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 (3-0-3F). Supervised student teaching 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 (3-0-3F). 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 476 STUDENT TEACHING IN CLASSES FOR THE SEVERELY HANDICAPPED (3-0-3F). 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 243. TE 473. (Pass/Fail).

TE 477 ELEMENTARY STUDENT TEACHING—SPECIALTY AREA (3-0-3F) or (3-0-3S). Supervised student teaching in a junior high school. The student will be placed with a cooperating teacher for one half-semester (full-time) in his/her major/minor field under supervision of University faculty. Seminars are required. PREREQ: Admission to student teaching. COREQ: TE 483. (Graded pass/fail).

TE 481 SENIOR JUNIOR HIGH SCHOOL STUDENT TEACHING: DUAL OPTION (2-15-8) (F). Supervised student teaching in a high school. The student will be placed with a cooperating teacher for one half-semester (full-time) in his/her major/minor field under the supervision of University faculty. Seminars are required. PREREQ: Admission to student teaching. COREQ: TE 482. (Graded pass/fail).

TE 482 JUNIOR HIGH SCHOOL STUDENT TEACHING: DUAL OPTION (1-15-8) or (1-15-3F). Supervised student teaching in a junior high school. The student will be placed with a cooperating teacher for one half-semester (full-time) in his/her major/minor field under supervision of University faculty. Seminars are required. PREREQ: Admission to student teaching. COREQ: TE 482. (Graded pass/fail).

TE 483 SENIOR HIGH SCHOOL STUDENT TEACHING: DUAL OPTION (2-15-8) or (2-15-3F). Supervised student teaching in a senior high school. The student will be placed with a cooperating teacher for one half-semester (full-time) in his/her major/minor field under the supervision of University faculty. Seminars are required. PREREQ: Admission to student teaching. COREQ: TE 482. (Graded pass/fail).

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

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

Graduate

TE 501 FOUNDATIONS OF READING INSTRUCTION (3-0-3F/5SU). PREREQ: Admission to Teacher Education.

TE 502 DIAGNOSIS AND CORRECTION OF READING PROBLEMS (3-0-3F/5SU). PREREQ: Admission to Teacher Education.

TE 503 CLINIC FOR READING SPECIALISTS (3-0-3S). PREREQ: Admission to Teacher Education.

TE 504 SEMINAR IN READING EDUCATION (3-0-3F/5SU). PREREQ: Admission to Teacher Education.

TE 505 INDIVIDUAL TEST AND MEASUREMENTS (3-0-3S). PREREQ: Admission to Teacher Education.

TE 506 DIAGNOSIS AND CORRECTION OF READING PROBLEMS—SECONDARY (3-0-3SU). PREREQ: Admission to Teacher Education.

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

TE 511 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY MATHEMATICS (3-0-3)(S).
TE 512 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING LANGUAGE ARTS AND LINGUISTICS (3-0-3)(F).
TE 513 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCIENCE (3-0-3)(F).
TE 514 COUNSELING/CONSULTING SKILLS FOR EDUCATORS (3-0-3)(F).
TE 515 ADVANCED THEORY OF INSTRUCTIONAL DESIGN FOR SPECIAL EDUCATORS. (3-0-3)(F).
TE 516 TEACHING GIFTED AND TALENTED STUDENTS (3-0-3)(S).
TE 517 SEMINAR ON THE SEVERELY HANDICAPPED LEARNER (3-0-3)(S) odd years.
TE 518 TECHNIQUES FOR CREATIVE WRITING IN ELEMENTARY SCHOOLS (3-0-3)(S).
TE 519 CHILDREN'S LITERATURE, ADVANCED LEVEL (3-0-3)(S).
TE 520 VIDEO DELIVERY SYSTEMS (3-0-3)(DEMAND).
TE 522 INDIVIDUALIZATION OF READING INSTRUCTION (3-0-3)(S/SU).
TE 525 ECONOMIC IMPACT OF EDUCATION (3-0-3)(SU).
TE 531 EDUCATION FOR THE CULTURALLY DIFFERENT LEARNER (3-0-3)(S).
TE 534 ISSUES & TRENDS IN SPECIAL EDUCATION (3-0-3)(S) even years.
TE 537 INSTRUCTIONAL DESIGN (3-0-3)(F/S).
TE 538 INSTRUCTIONAL COURSEWARE DESIGN (3-0-3)(F).
TE 539 ARTIFICIAL INTELLIGENCE APPLICATIONS (3-0-3)(S).
TE 541 EDUCATION IN EMERGING NATIONS (3-0-3)(F).
TE 543 EARLY CHILDHOOD: READINGS (3-0-3)(S).

TE 544 EARLY CHILDHOOD: ADVANCED CHILD DEVELOPMENT (3-0-3)(F).
TE 546 EARLY CHILDHOOD: ENVIRONMENTS AND PROGRAMS (3-0-3)(S).
TE 547 EARLY CHILDHOOD: LANGUAGE ACQUISITION AND DEVELOPMENT (3-0-3)(F).
TE 551 FUNDAMENTALS OF EDUCATIONAL RESEARCH (3-0-3).
TE 555 SUPERVISION OF INSTRUCTIONAL PERSONNEL (3-0-3)(S).
TE 559 PHILOSOPHY OF EDUCATION (3-0-3)(S/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 581 CURRICULUM PLANNING AND IMPLEMENTATION (3-0-3).
TE 582 INSTRUCTIONAL THEORY (3-0-3).
TE 583 SELECTED TOPICS-INSTRUCTIONAL TECHNOLOGY (3-0-3)(Demand).
TE 590 PRACTICUM IN SPECIAL EDUCATION (3-0-3) (F/S).
TE 591 PROJECT (0-0-6).
TE 593 THESIS (0-0-6).
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 life-long service and training.

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

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

Cooperating Agencies

- AT&T
- Boise Samaritan Village, Boise, Idaho
- Booth Memorial Home (Salvation Army), Boise, Idaho
- Central District Health Department, Boise, Idaho
- Community Home Health, Boise, Idaho
- El Ada Head Start, Boise, Idaho
- Grand Oaks Healthcare, Boise, Idaho
- Hillcrest Care Center, Boise, Idaho
- Idaho Elks Rehabilitation Hospital, Boise, Idaho
- Idaho Veterans Nursing Home, Boise, Idaho
- Independent School District of Boise City, Boise, Idaho
- Intermountain Hospital, Boise, Idaho
- Magic Valley Regional Medical Center, Twin Falls, Idaho
- Mercy Medical Center, Nampa, Idaho
- Nelson Institute, Boise, Idaho
- Patient and Family Support Institute, Inc., Boise, Idaho
- St. Alphonsus Regional Medical Center, Boise, Idaho
- St. Joseph's Hospital, Inc., Lewiston, Idaho
College of Health Science

- St. Luke's Regional Medical Center/Mountain States Tumor Institute, Boise, Idaho
- St. Mary's School, Boise, Idaho
- Treasure Valley Manor, Boise, Idaho
- Walter Knox Memorial Hospital, Emmett, Idaho
- West Valley Medical Center, Caldwell, Idaho
- YWCA (Battered Women's Unit), Boise, Idaho
- Veterans Administration Medical Center, Boise, Idaho

University/Community Health Sciences Association, Inc.

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

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

M.M. Burkholder, M.D., President
Mr. James A. Goff, Vice President
Donald L. Pape, D.D.S., Secretary
Mr. Armand Bird, Treasurer

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

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

Department of Community and Environmental Health

Math/Geology Building, Room 101 Telephone (208) 385-3929
Chairman and Associate Professor: Elaine M. Long; Associate Professor: Lee W. Stokes.

Degrees Offered
- BS in Environmental Health
- BS in Health Science
- Non-degree Program in Pre-Dietetics

Department Statement

Students in this Department study general aspects of human health which are affected by personal, social, and environmental conditions and interaction. Personal health conditions, the interrelationships between personal health and environmental conditions, and existing and future community health programs are all considered.

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

Advisors: Ashworth, Elison, Long.

The Bachelor of Science degree in Health Science Studies provides a curriculum for students who wish to gain an education in Health Science Studies as a foundation for additional professional or graduate work in several health science professions, (For example: Medicine, Dentistry, Hospital Administration, Medical Technology). Employment with public health agencies or institutions is also an option. Undecided Health Science majors can use the curriculum to obtain the beginning courses 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
2. English Composition E 101-102 .......................................6
3. Electives (AREA I Core) ................................................12
4. Psychology P 101 .........................................................3
5. Sociology SO 101 .........................................................3
6. Speech CM 111 .........................................................3
7. AREA II Core Elective ..................................................3

128
2. AREA III Core & Science/Mathematics Requirements ................. 56
   College Chemistry C 131-134 .................................. 9
   Organic Chemistry C 317-319 ................................ 5
   Botany-Zoology BT 130, Z 130 .................................. 9
   Cell Biology B 301 .................................................. 3
   Bacteriology B 303 ............................................... 5
   Entomology Z 305 .................................................. 4
   Applied & Environmental Microbiology B 415 ................. 4
   General Physics PH 101-102 ................................... 8
   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 H 304 ........................ 2
   Public Health Law H 435 ....................................... 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 ........................ 1
   OR ................................................................. 3
   Conflict Resolution SO 390 or CM 390 ...........................

4. Suggested Electives .................................................. 12
   Pathogenic Bacteriology B 310 ................................ 4
   Human Physiology Z 401 ....................................... 4
   Economics EC 201 ................................................. 3
   Bioecology B 423 .................................................. 4
   Parasitology B 412 ............................................... 4
   Management & Organizational Theory MG 301 ............... 3
   Physical Geology GO 101 .................................... 4
   State & Local Government PO 102 ............................. 3
   Statistics M 361 .................................................... 3
   American National Government PO 101 ........................ 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 ................................................................. 9
   Essentials of Chemistry C 107-110 ............................ 3
   Mathematics M 111 ............................................. 8-9
   General Zoology & General Botany Z 130 & BT 130 ........ 8
   OR ................................................................. 9
   Human Anatomy & Physiology Z 111-112 ........................

5. Health Science Requirements ...................................... 16
   Intro to Computers in Health Science H 120 ................. 2
   Health Delivery Systems H 202 ................................ 3
   Nutrition H 207 .................................................. 3
   Intro to Health Law and Ethics H 213 ........................ 2
   OR ................................................................. 2
   Public Health Law H 435 ...................................... 2
   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 ........................................... 3.4
      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 ................................ 6
      Biochemistry with Laboratory C 431-432 ................... 4
      Mathematics M 204 .......................................... 5
      Statistics M 120 .............................................. 4
      A First Course in Programming CS 122 ..................... 2
      General Physics PH 101-102 ................................ 8
      Biophysics B 415 ............................................ 4
      Comparative Anatomy Z 301 ................................ 4
      Vertebrate Embryology Z 351 ................................ 4
      Histology Z 400 ................................................ 4
      Physiology Z 401 or 409 .................................... 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 120 or P 305 .................................. 3
      General Physics PH 101-102 ................................ 8
      Print of Economics EC 201-202 ............................. 3
      Accounting AC 205-206 ...................................... 3
      Fund of Speech Comm CM 111 ................................ 3
      Communication in the Small Group CM 251 ............... 3
      American National Government PO 101 ................... 3
      State & Local Government PO 102 ......................... 3
      Intro Public Administration PO 303 ........................ 3
      Public Finance PO 310 or EC 310 ........................ 3
      Principles of Marketing MK 301 ........................... 3
      Management & Organization Theory MG 301 ............. 3
      Personnel Administration MG 305 ........................ 3
      Applied Anatomy PE 230 ...................................... 3
      Exercise Physiology PE 310 ................................ 3
      Kinesiology PE 311 ........................................... 3
      Psychology P 101 ............................................. 3
      Educational Psychology P 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

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<tr>
<th>FRESHMAN YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
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<tr>
<td>English Composition E 101-102</td>
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<tr>
<td>General Psychology P 101</td>
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<td>College Chemistry C 131-134</td>
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<td>General Botany BT 130</td>
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<td>Mathematics M 111 or 204</td>
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<td>Electives (Area II)</td>
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15 15
**SOPHOMORE YEAR**

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

**JUNIOR YEAR**

- Organic Chemistry C 317-319
- Cell Biology B 301
- CM 251 OR CM 380/SO 290
- Technical Writing E 202
- Electives (Area I)
- Elective

*Professional Requirements (EH & H courses) 9 OR 10

**SENIOR YEAR**

- Bacteriology B 303
- Entomology Z 305
- Applied and Environmental Microbiology B 415
- Environmental Health Internship EH 493
- Electives

*Professional Requirements (EH & H courses) 9 OR 10

**SOPHOMORE YEAR**

- General Botany & General Zoology BT 130-Z 130
- Human Anatomy & Physiology Z 111-112
- Area I Core Electives
- Area II Core Electives

**JUNIOR YEAR**

- Introduction to Health Law and Ethics H 213
- Public Health Law H 435
- Health Science Electives

**SENIOR YEAR**

- Epidemiology H 480
- Preprofessional Internship H 493
- Seminar H 498 or 499
- Health Science Elective

**FRESHMAN YEAR**

- Essentials of Chemistry C 107-108-109-110
- English Composition E 101-102
- Human Anatomy & Physiology Z 111-112
- Psychology P 101
- Sociology SO 101
- Area I Elective

**Course Offerings**

See page 20 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 reports with university instructor. Required for all environmental health majors. (Pass/ Fail).

**Upper Division**

- EH 310 WATER SUPPLY AND WATER QUALITY MANAGEMENT (2-3-3/F). Sanitation and management practices for community problems dealing with waste disposal, vector control, food and milk protection, swimming pools, and recreation activities. PREREQ: Botany, Zoology, Chemistry 131-134, one year Mathematics, Upper Division status. Even-numbered years.


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

- EH 415 OCCUPATIONAL SAFETY AND HEALTH (2-3-3/S). Recognition, evaluation, and control of industrial 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: Physics 101-102 and Organic Chemistry or concurrent enrollment. Even-numbered years.

- EH 493 ENVIRONMENTAL HEALTH INTERNSHIP (0-V-1/F/S). Three or more hours of internship per week in a business or governmental agency. The student works within the organization, keeps a record of the experience and discusses these experiences at a seminar. PREREQ: Upper Division standing; recommendation of faculty advisor; consent of instructor. (Pass/Fail).

**H HEALTH SCIENCES**

**Lower Division**

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

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

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

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

- H 160 LIFETIME FITNESS AND WELLNESS (3-2-4/F/S). A survey of contemporary fitness and wellness related issues. Emphasis is upon providing an understanding of basic concepts that are essential for knowledgeable decision making. Topics include: mental health, stress, fitness, nutrition, drug use/abuse, disease and aging. Laboratory experiences stress lifestyle changes and an opportunity to set and achieve personal goals. May be taken for Health Science credit or Physical Education credit (PE 160), but not for both.
H 202 HEALTH DELIVERY SYSTEMS (3-0-3)(F). Consideration of processes, professionals, politics, programs, laws and institutions which are involved in the maintenance of health and treatment of disease.

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

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

H 209 PRINCIPLES OF FOOD PREPARATION (2-6-4)(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 the 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 LAW AND ETHICS (2-2-2)(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 214/214 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART I (3-3-3)(F). Emphasis on issues relating to alcohol/drug dependency and approaches to diagnosis and assessment. Legal, social, and health implications will also be considered.


H 216 LABORATORY VALUES (1-0-1)(F). Introduction to the clinical significance of selected laboratory tests. PREREQ: PERM/INST.


Upper Division

H 300 PATHOPHYSIOLOGY (4-4-4)(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 304-304C PUBLIC HEALTH ADMINISTRATION (3-0-3)(F). Functions of local, state, and federal health agencies, and factors which have an impact on agency programs. Those students registered for graduate credit will complete extra work. PREREQ: Upper Division standing and health science major or PERM/INST. Even-numbered years.

H 306 APPLIED PHARMACOTHERAPEUTICS (3-0-3)(S). Emphasis on use of drugs in relation to health and illness in any setting, 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, P 313, B 300 or PERM/INST.

H 435-435G PUBLIC HEALTH LAW (2-0-2)(S). A study of public health legislation, including the implementation and enforcement of such laws, and specific duties of agencies regarding selected sections of the law. Those students registered for graduate credit will complete extra work. PREREQ: Upper Division standing or PERM/INST. Odd-numbered years.

H 480-480C EPIDEMIOLOGY (3-0-3)(S). Study of the distribution of disease or physiological conditions of humans, and of factors which influence this distribution. Those students registered for graduate credit will complete extra work. PREREQ: Upper Division status, health science major or PERM/INST, statistics desirable. Odd-numbered years.

H 493 PREPROFESSIONAL INTERNSHIP (1-3-2)(F). Three hours of internship in a clinical setting under direction of a preceptor who is a practicing professional. Student keeps a record of experiences and discusses them at a weekly one-hour seminar. PREREQ: H 202; Upper Division standing, cumulative GPA above 3.25; recommendation of faculty advisor; consent of instructor. (Pass/Fail).

H 498-499 SEMINAR (1-0-1 or 2-0-2)(F). Presentation of selected health science topics under faculty direction. 1 or 2 credits.

Department of Medical Record Science

Health Sciences Building Telephone (208) 385-1130
Chairman, Assistant Professor: Patt Ellison; Associate Professor: Seddon

Degrees Offered

- AS in Medical Record Technology

Department Statement

Medical Record Science is concerned with the application of techniques used in the development, implementation, and retention of health information. The program is a combination of clinical practice and study in areas such as classification systems, health data 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

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>1st SEM</th>
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<tr>
<td>English Composition E 101-102</td>
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<td>Human Anatomy &amp; Physiology Z 111-112</td>
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<tr>
<td>Introduction to Allied Health H 100</td>
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<tr>
<td>Area III Core Elective</td>
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<tr>
<td>Medical Terminology H 101</td>
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<tr>
<td>Introduction to Medical Records MR 115</td>
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<td>Computers in Health Care H 120</td>
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131
**SOPHOMORE YEAR**

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<thead>
<tr>
<th>Medical Records I MR 201-202</th>
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<tbody>
<tr>
<td>Diagnostic and Operative Coding MR 207</td>
<td>3</td>
</tr>
<tr>
<td>Disease Conditions I H 211</td>
<td>3</td>
</tr>
<tr>
<td>Health Delivery Systems H 202</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Health Law &amp; Ethics H 213</td>
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</tr>
<tr>
<td>Medical Records II MR 203-204</td>
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<td>Health Record Transcription MR 209</td>
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<td>Health Data MR 205</td>
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<td>Disease Conditions II H 212</td>
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<tr>
<td>Area I Core Elective</td>
<td>3</td>
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<td><strong>Total</strong></td>
<td><strong>16 16</strong></td>
</tr>
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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><strong>Course Offerings</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>See page 20 for definition of course numbering system</td>
</tr>
</tbody>
</table>

**MR MEDICAL RECORDS**

**Lower Division**

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

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

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

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

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

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

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

**MR 209 HEALTH RECORD TRANSCRIPTION (0-4-2)(S)**. Machine transcription of histories, physical examinations, operations, and other medical dictation. Typing ability is required. PREREQ: H 101.

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

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**Department of Nursing**

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

**Associate Dean/Chairperson and Associate Professor:** Dr. Anne Payne  
**Associate Degree Faculty:** Associate Professors: Fountain, Wilcox; Assistants: Professors: Bledsoe, Chase, Henbest, Leathy, MacDonald, Nelson, Otterness, Peterson, Springer; Special Lecturer: Stromberg; Bachelor of Science Faculty: Professor: Vahey; Associate Professors: Matson, Penner, Taylor; Assistant Professors: Callaghan, Carpenter, Everitt, Gehrike, Martin, Straub.

**Degrees Offered**

- AS, Nursing  
- BS, Nursing

**Department Statement**

The Department of Nursing offers a lower-division nursing curriculum leading to an Associate of Science in Nursing which has had continuous approval of the Idaho State Board of Nursing and has been accredited by the National League for Nursing since 1968. The Associate of Science program prepares graduates for technical nursing practice. Graduates are eligible to write the examination for licensure as a registered nurse. The Department also offers an upper division, professional nursing program leading to a Bachelor of Science degree in Nursing which is approved by the State Board of Nursing and is accredited by the National League of 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, 1986.

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

**Associate of Science Degree**

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

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

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

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

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

**Admission Requirements**

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

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

Applicants must meet the general University requirements as well as the stated requirements for the Associate of Science in Nursing Program on the following page.

1. Applicants who have completed less than 6 semester credit hours of required general education courses* will be selected on the basis of their high school grade-point average (GPA) or GED and ACT or SAT scores. To be eligible for consideration the applicant must have:
Applications who have earned 6 or more semester credits in required general education courses* are evaluated on their college GPA. To be eligible for consideration students must have earned a minimum of 2.50 GPA with a "C" or better in required general education courses.

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

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

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

Registered Nurse licenses are granted by the Idaho Board of Nursing to graduates of approved educational programs who successfully complete the National Council Licensure Examination. The Board of Nursing shall have the power to deny any application for license . . . upon determination that the person:

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


Application Procedures

1. Make application for admission to BSU and the Department of Nursing, Associate of Science in Nursing Degree Program. BSU application forms are available in the Administration Building, Room 101. ASN Program applications are available in the Science-Nursing Building, Room 110 at the beginning of each Spring Semester.

2. Submit an official high school transcript or GED test score (50 or above), ACT or SAT scores, and official transcripts of all previous college work. LPNs applying for advanced placement must also submit evidence of previous education as well as of current licensure. These documents must be received by the Nursing Department prior to March 1 if applications are to be reviewed in the initial screening. Following acceptance into the Associate of Science program, all applicants must submit to the Nursing Department by August 1 of each academic year:

   1. The completed Health Assessment form provided by the Department of Nursing.
   2. Documentation of a negative PPD or a chest X-ray plus documented Rubella immunity report.
   3. Documentation of completion of a Cardiopulmonary Resuscitation course (including infant CPR).
   4. Annual lab fee payable during registration.

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

Degree Requirements

ASSOCIATE OF SCIENCE

Full-Time Nursing Student

<table>
<thead>
<tr>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Essentials of Chemistry C 107-108</td>
<td>4</td>
</tr>
<tr>
<td>2. Nutrition H 207</td>
<td>3</td>
</tr>
<tr>
<td>3. Human Anatomy &amp; Physiology Z 111-112</td>
<td>4</td>
</tr>
<tr>
<td>4. General Psychology P 101</td>
<td>3</td>
</tr>
<tr>
<td>5. Fundamentals of Nursing I &amp; II NA 100-102</td>
<td>6</td>
</tr>
<tr>
<td>6. English Composition E 101</td>
<td>3</td>
</tr>
<tr>
<td>7. Microbiology B 205</td>
<td>4</td>
</tr>
<tr>
<td>8. English Composition E 102</td>
<td>3</td>
</tr>
<tr>
<td>9. Introduction to Sociology SO 101</td>
<td>3</td>
</tr>
<tr>
<td>10. Elective</td>
<td>3</td>
</tr>
<tr>
<td>11. Nursing Intervention I &amp; II NA 200-202</td>
<td>9</td>
</tr>
</tbody>
</table>

*Prerequisite or Corequisite to First Year Nursing Courses.

Course Offerings

See page 20 for definition of course numbering system

NA NURSING COURSES

Lower Division

NA 100 FUNDAMENTALS OF NURSING I (3-6-10F). 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 progress toward wellness. PREREQ: Admission to the AS program.

NA 102 FUNDAMENTALS OF NURSING II (3-12-7S). Builds upon concepts presented in NA 100. Focuses on concepts and methods to assist individuals and families adaptation to stressors of illness and surgery. Learning experiences assist student to 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 (2-9-20S). 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 (4-15-9F). Develops concepts presented in first year courses. Focuses on coping with changes in biopsychosocial health status of individuals and families from prenatal through late adulthood. Learning experiences utilize the nursing process to provide care for patients with complex health problems. PREREQ: NA 102, COREQ: B 205.

NA 202 NURSING INTERVENTION II (4-18-10S). 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:
      1) College Chemistry C 107-110 or C 131-134
      2) General Psychology P 101 (AREA II Core)
College of Health Science

3) Mathematics 108 or above
4) English Composition E 101-102
5) Human Anatomy and Physiology Z 111-112
6) Area I Core elective

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.
   a. Microbiology 3-4 credits
   b. Nutrition 2-3 credits
   c. Nursing Placement Examinations

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

Degree Requirements

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

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Chem C 107-110/131-134 (AREA III CORE)</td>
<td>4</td>
<td>5</td>
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<tr>
<td>Elective (AREA I CORE)</td>
<td>3</td>
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<tr>
<td>General Psychology P 101 (AREA II CORE)</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Mathematics M 111 or above (AREA III CORE) OR Mathematics M 108 (Does not meet AREA III CORE)</td>
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<td>4-5</td>
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<tr>
<td>English Composition E 101-102</td>
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<tr>
<td>Human Anatomy &amp; Physiology Z 111-112 (AREA III CORE)</td>
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<th>SECOND YEAR</th>
<th>3rd SEM</th>
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<td>Microbiology B 205</td>
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<td>Pathophysiology H 300</td>
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<td>Applied Pharmacotherapeutics H 306</td>
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<td>Nutrition H 207</td>
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<td>Computer Course H 120, TE 208, CS 109 or IS 210</td>
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<td>Introduction to Nursing Process NU 204</td>
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<td>Introduction to Sociology SO 101 (AREA II CORE)</td>
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NOTE: Each year's course sequence must be completed prior to beginning the next year's courses.

*Beginning Fall, 1990 Registered Nurses who wish to enroll in the Baccalaureate Nursing Program will complete degree requirements as outlined above. Registered Nurses currently enrolled in the Baccalaureate Degree Program will complete course requirements listed on page 135 and must be completed by Spring, 1992. Contact the Department of Nursing for academic advisement.

Course Offerings

See page 20 for definition of course numbering system

NU NURSING COURSES

Lower Division

NU 204 INTRODUCTION TO NURSING PROCESS (2-0-2F). 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 (3-0-3S). 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 (0-9-3S). Practical application of interpersonal, affective, and psychomotor skills learned in NU 206. This includes physical assessment. COREQ: NU 206.

Upper Division

NU 314 CONCEPTS OF NURSING I (4-0-4F). Focuses on concepts, principles and theories related to promotion and maintenance of health in chronic illness for persons of all ages. PREREQ: NU 206 COREQ: NU 315.

NU 315 CONCEPTS OF NURSING I LAB (0-9-3F). Applies concepts, principles and theories from NU 314 to persons with chronic illness in a variety of settings. COREQ NU 314.

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

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

NU 412 COMMUNITY HEALTH NURSING (5-0-5F). Concepts basis to the provision of nursing care to individuals, families, and groups within the context of the community. Major content areas include: family nursing, home health care, roles of the community health nurse, history of the community health nurse, community assessment, and health policy formation. PREREQ: NU 318 COREQ: NU 413.

NU 413 COMMUNITY HEALTH NURSING LAB (0-15-5F). Application of community health nursing concepts to individuals and groups within the context of the community. COREQ: NU 412.

NU 416 PSYCHOSOCIAL NURSING (2-0-2F). The study of psychosocial factors affecting nursing care and understanding of illness as sociological and psychological maladaptation. Includes knowledge of emotional disorder and psychotherapeutic interventions used in nursing. PREREQ: NU 318 COREQ: NU 417.

NU 417 PSYCHOSOCIAL NURSING LAB (0-3-1F). Application of theory from NU 416 including therapeutic use of self with individuals, families, and groups of all ages. COREQ: NU 416.

NU 434 LEGAL/Ethical ISSUES AND TRENDS (3-0-3S). An exploration and evaluation of the legal and ethical issues and trends considered to be essential for those administering nursing care. PREREQ: Current enrollment as Senior nursing major.

NU 436 NURSING LEADERSHIP (5-0-5S). Principles and concepts basic to the leadership process as applied to nursing; Concepts include change, decision-making, collaboration, conflict resolution, negotiation, communication, power and the bureaucratic structure within health care settings. PREREQ: NU 416 COREQ: NU 437.

NU 437 NURSING LEADERSHIP LAB (0-15-5S). Application of principles and concepts from NU 436 to the nursing role as a leader/manager in health care delivery. COREQ: NU 436.

NU 456 NURSING STRATEGIES IN HIGH RISK CHILDBEARING FAMILIES (3-0-3F/S). Concepts and content relative to potential or actual maternal-fetal-neonatal crises. PREREQ: Current enrollment as Senior nursing major or PERM/INST.

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

NU 472 NURSING CARE OF THE ADULT IN THE WORKPLACE (2-0-25). Exploration of nursing concepts essential to promotion of health and prevention of illness/accidents in the occupational setting; roles, and responsibilities of the occupational health nurse. PREREQ: Current enrollment as Senior nursing major or PERM/INST.
NU 478 NURSING AND POLITICS (3-0-3)(S). Explores the relationship between professional nursing and the policy process; concepts of power, politics, and process as these impact nursing practice. PREREQ: Current enrollment as Senior nursing major or PERM/INST.

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, 1992. Contact the Department of Nursing for academic advising.

### JUNIOR YEAR

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<td>Practicum: Nursing Roles in Promoting Group Health NB 323</td>
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### SENIOR YEAR

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<td>Practicum: Critical Care Nursing NB 431</td>
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<td>Professional Nursing II NB 402</td>
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<td>Psychosocial—Mental Health Nursing NB 408</td>
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<td>Pract: Psychosocial—Mental Health Nursing NB 409</td>
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<td>Chronic and Rehabilitative Nursing NB 432</td>
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<td>Pract: Chronic and Rehabilitative Nursing NB 433</td>
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<td>Area I, II, or III CORE Electives</td>
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### Course Offerings

See page 20 for definition of course numbering system

**NB NURSING COURSES**

#### Upper Division

**NB 302 PROFESSIONAL NURSING I (2-0-2)(F).** Introduction to theoretical foundations in nursing. Overview of the historical evolution of nursing. Discussion of the professionalization of nursing and characteristics of baccalaureate nursing education. Ethical issues in professional nursing. PREREQ: Admission to BS program for R.N.'s

**NB 308 NURSING LEADERSHIP (2-0-2)(F).** The leadership process is explored in relation to leadership and management theories, communication, group theories, professional issues, and change. Nursing leadership is emphasized in all areas of nursing responsibility. PREREQ or COREQ: NB 302, NB 360 COREQ: NB 309.

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

**NB 322 NURSING ROLES IN PROMOTING GROUP HEALTH (2-0-2)(S).** Analysis of group health based on concepts from systems, developmental, and interactional frameworks in a variety of settings. Emphases on levels of prevention and nursing roles in health promotion. PREREQ: NB 308. PREREQ or COREQ: NB 392. COREQ: NB 323.

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

**NB 360 HEALTH ASSESSMENT (3-0-3)(F).** Conceptual base for nursing practice, which includes systems theory and the health-illness continuum. A systems approach is used to assess individual health status and potential. PREREQ or COREQ: NB 302, 308, H 300. COREQ: NB 361.

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

**NB 364 FAMILY NURSING (2-0-2)(S).** Analysis of individual and family health based on concepts from systems and developmental frameworks. Emphasis on application of the nursing process and development of a therapeutic relationship with a childbearing and/or childrearing family. PREREQ: NB 308, NB 360. PREREQ or COREQ: NB 392. COREQ: NB 322, NB 365.

**NB 365 PRACTICUM: FAMILY NURSING (0-6-2)(S).** Practicum for NB 364. COREQ: NB 364.

**NB 392 INTRODUCTION TO NURSING RESEARCH (3-8-3)(S).** Research process as applied in health care research. Emphasis on defining researchable problems, conceptualizing research design, and analyzing steps in the research process. Critical review of research articles to evaluate findings for application to nursing practice. PREREQ: NU 206, any upper-division statistics course.

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

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

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

**NB 410 NURSING IN THE COMMUNITY (0-6-2)(F).** Principles of community assessment. Conceptual and historical perspectives of community health in relation to professional nursing roles. PREREQ: All 300 level nursing and support courses. COREQ: NB 411.

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

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

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

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

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

### 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 studies 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
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

OR
Science-Nursing Building, Room 211  Telephone (208) 385-1321
Advisor: Dr. Eugene Fuller

PRE-MEDICINE, BIOLOGY OPTION
Bachelor of Science

Requirements

General University and Basic Core ........................................ 21
English Composition E 101-102 ........................................... 6
Zoology Z 130 ................................................................. 3
Botany BT 130 ............................................................... 5
Cell Biology B 301 ............................................................ 3
General Bacteriology B 303 .................................................. 3
Comparative Anatomy Z 301 ............................................... 4
Vertebrate Embryology Z 351 ............................................. 4
Genetics, with or without lab B 343, 344 ............................... 3-4
Vertebrate Histology Z 400 ............................................... 4
College Chemistry C 131-134 ............................................ 9
*Organic Chemistry C 317-320 .......................................... 8-10
Biochemistry with or without LAB C 431-432 ......................... 3-4
General Physics PH 101-102 ............................................ 8
Mathematics M 111-204 ................................................... 10
**Electives ................................................................. 21-25
Total must be at least ..................................................... 128

Suggested Program

1st SEM  2nd SEM

FRESHMAN YEAR
English Composition E 101-102 ........................................... 3 3
*College Chemistry C 131-134 ......................................... 4 5
Mathematics M 111-204 ................................................... 5 5
Area II Core Courses ...................................................... 3 3
15 16

SOPHOMORE YEAR
*Botany BT 130 ............................................................... 4 -
*Zoology Z 130 ............................................................. 5 -
*Organic Chemistry C 317-320 ........................................... 5 3-5
General Psychology P 101 ............................................... 3 -
Cell Biology B 301 ........................................................... 3 -
Electives (H 202 recommended)*** ................................... 3 3-6
15 17-19

JUNIOR YEAR
Comparative Anatomy Z 301 ............................................. 4 -
Genetics, with or without lab B 343, 344 ............................ 3-4
Vertebrate Embryology Z 400 ............................................ 4 -
General Physics PH 101-102 .......................................... 4 4
Area I Core Courses ...................................................... 3 3
14-15 17

SENIOR YEAR
General Bacteriology B 303 ............................................. 5 -
Vertebrate Histology Z 400 ............................................ 4 -
Physiology Z 401 or 409 ............................................... 4 -
Biochemistry C 431-432 ................................................ 3 1
Area I Core Courses ...................................................... 3 3
Electives ................................................................. 3 9
18 17

*Pre-Dental B; Pre-Medical 10
**Additional Upper Division credits so that Upper Division credits will total at least 40.
***H 202, Health Delivery Systems, is prerequisite for Preprofessional Internship, H 493.

PRE-DENTISTRY, CHEMISTRY OPTION
Bachelor of Science

Science-Nursing Building, Room 213  Telephone (208) 385-3499
Advisor: Dr. Charles W. Baker

PRE-MEDICINE, CHEMISTRY OPTION
Bachelor of Science

Science-Nursing Building, Room 316  Telephone (208) 385-3665
Advisor: Dr. Richard C. Banks

Requirements

General University and Basic Core ........................................ 21
Chemistry Composition E 101-102 ........................................ 6
Zoology Z 130 ................................................................. 3
Botany BT 130 ............................................................... 5
Cell Biology B 301 ............................................................ 3
Comparative Anatomy Z 301 ............................................... 4
Genetics, with or without lab B 343, 344 ............................... 3-4
Vertebrate Embryology Z 351 ............................................. 4
College Chemistry C 131-134 ............................................ 9
Organic Chemistry C 317-320 .......................................... 8-10
Bio or Analytical Chem with Lab C 431-432 or C 211-212 ................. 3-4
Physical Chemistry C 321-324 .......................................... 8
Instrumental Analysis C 411 ............................................. 4
Chemistry Independent Studies C 496 .................................. 2
Chemistry Seminar C 498, 499 ........................................ 2
General Physics PH 101-102 ............................................ 8
Mathematics M 111-204 ................................................... 10
Mathematics M 205-206 .................................................. 8
**Electives ................................................................. 9-11

Suggested Program

1st 2nd

FRESHMAN YEAR
English Composition E 101-102 ........................................... 3 3
College Chemistry C 131-134 ......................................... 4 5
Mathematics M 111-204 ................................................... 5 5
Area II Core Courses ...................................................... 3 3
15 16

SOPHOMORE YEAR
Botany BT 130 ............................................................... 4 -
Zoology Z 130 ............................................................. 5 -
Organic Chemistry C 317-320 ........................................... 5 5
Mathematics M 205-206 .................................................. 4 4
Cell Biology B 301 ............................................................ 3 -
Elective (H 202 recommended)*** ................................... 3 -
16 17

JUNIOR YEAR
Comparative Anatomy Z 301 ............................................. 4 -
Genetics, with or without lab B 343, 344 ............................ 3-4
Bio or Analytical Chem with Lab C 431-432 or C 211-212 ................. 5 4
Area I Core Courses ...................................................... 3 3
16-17 17

136
### Bachelor of Science in Medical Technology

The Bachelor of Science degree in 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 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.

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*Two semesters of Biochemistry C 431-432 are recommended.

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College of Health Science

### Bachelor of Science in Medical Technology (MT 487-8-9)

#### Requirements

- **Hematology**
- **Clinical Bacteriology**
- **Clinical Parasitology**
- **Urinalysis**
- **Clinical Chemistry**
- **Immunohematology**
- **Serology-Immunology**
- **Toxicology**
- **Clinical Mycology**
- **Clinical Correlations Seminar**

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137
College of Health Science

Suggested Program

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<td>Biochemistry Laboratory C 432</td>
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<tr>
<td>Health Delivery Systems H 202</td>
<td>3</td>
<td>-</td>
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<tr>
<td>Human Physiology Z 401</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
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</tr>
<tr>
<td>Electives Area I or II Core</td>
<td>17</td>
<td>15</td>
</tr>
</tbody>
</table>

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

Course Offerings

See page 20 for definition of course numbering system

MT MEDICAL TECHNOLOGY

MT 201 BASIC MEDICAL TECHNOLOGY (2-0-2)(S). 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 semester—8 CR)(S)(SU)(second session). Clinical instruction in a hospital school approved and accredited by CAHEA. PREREQ: Acceptance by a hospital school accredited by CAHEA.

MT 488 CLINICAL CLASS AND PRACTICE (153 hours per semester—674 hours per semester—12 CR)(F). Clinical instruction in a hospital school approved and accredited by CAHEA. PREREQ: Acceptance by a hospital school accredited by CAHEA.

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

Non-Degree Programs

PRE-DENTAL HYGIENE

Student Health Center, Room 117 Telephone (208) 385-1996
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 school. The program suggested here is based upon the prerequisites generally required by professional schools. Students should consult the advisor and pattern their program at BSU on the requirements of the specific professional school to which they expect to apply.

Suggested Program

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology Z 111-112</td>
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<tr>
<td>Chemistry C 107, 109</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry C 108, 110</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics M108 or M111</td>
<td>4-5</td>
<td>-</td>
</tr>
<tr>
<td>Introduction to Allied Health H 100</td>
<td>1</td>
<td>-</td>
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<tr>
<td>Area I Core</td>
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<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>16-17</td>
<td>15</td>
</tr>
</tbody>
</table>

PRE-PHARMACY

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

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 prepharmacy 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>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nutrition H 207</td>
<td>3</td>
</tr>
<tr>
<td>Speech CM 111</td>
<td>3</td>
</tr>
<tr>
<td>Zoology Z 130</td>
<td>4</td>
</tr>
<tr>
<td>Sociology SO 101</td>
<td>3</td>
</tr>
<tr>
<td>Psychology P 101</td>
<td>3</td>
</tr>
<tr>
<td>Microbiology B 205</td>
<td>4</td>
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<tr>
<td>Area I Core</td>
<td>3</td>
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<tr>
<td>Technical Writing E 202</td>
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</tr>
<tr>
<td>Area II Core</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
</tr>
</tbody>
</table>

PRE-OCCUPATIONAL THERAPY

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

Occupational Therapy schools differ considerably in their preprofessional requirements. A minimum of two preprofessional years is 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 Telephone (208) 385-3383
Advisor: Dr. Conrad Colby

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

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

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

Suggested Program

<table>
<thead>
<tr>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Zoology Z 130</td>
<td>1 or 2 semesters</td>
</tr>
<tr>
<td>College Chemistry C 131-134</td>
<td>2 semesters</td>
</tr>
<tr>
<td>General Physics PH 101-102</td>
<td>2 semesters</td>
</tr>
<tr>
<td>English E 101-102</td>
<td>2 semesters</td>
</tr>
<tr>
<td>College Mathematics</td>
<td>2 semesters</td>
</tr>
<tr>
<td>Electives</td>
<td>2 semesters</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
</tr>
</tbody>
</table>

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

- Psychology
- Social Science
- Philosophy
- Literature
- Organic Chemistry
- Microbiology
- Bacteriology
- Comparative Anatomy
- Physiology
- Statistics
- Algebra and Trigonometry
- Analytic Geometry
- Differential Calculus
- Integral Calculus

PRE-PHARMACY

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

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 prepharmacy 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

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>1st SEM</th>
<th>2nd SEM</th>
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</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
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<td>3</td>
</tr>
<tr>
<td>Chemistry C 131, 133</td>
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<tr>
<td>Chemistry Laboratory C 132, 134</td>
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<td>Mathematics M 111</td>
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<td><em>Mathematics M 204</em></td>
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<td>5</td>
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<tr>
<td>Area I Core</td>
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<td></td>
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<tr>
<td>Fundamentals of Speech CM 111</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>16</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.

PRE-PHYSICAL THERAPY

Freshman and Sophomore Students

Human Performance Center Telephone (208) 285-3383
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.

 prerequisites. 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.

Requirements for Admission

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

2. Sophomore Year
   a. Only students who have completed or are in the process of completing the freshman curriculum with a GPA of 2.25 or higher will be considered for acceptance into the sophomore year of the Radiologic Technology Program. A grade lower than C will not be accepted for any of the required courses.
   b. Health status must be adequate to insure successful 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 $70.00 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.
College of Health Science

Required Program

Radiologic Technology Program

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>1st</th>
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<tbody>
<tr>
<td>SEM</td>
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<tr>
<td>English Composition E 101-102</td>
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</tr>
<tr>
<td>Human Anatomy &amp; Physiology &amp; Lab Z 111-112</td>
<td>4</td>
</tr>
<tr>
<td>Medical Terminology H 101</td>
<td>3</td>
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<tr>
<td>Essentials of Chemistry &amp; Lab C 107-108</td>
<td>4</td>
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<tr>
<td>Intro to Allied Health H 100</td>
<td>1</td>
</tr>
<tr>
<td>Intro to Radiology Clinical Experience RD 234</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory Practicum RD 211</td>
<td>2</td>
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<tr>
<td>Radiation Biology-Protection RD 230</td>
<td>2</td>
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<tr>
<td>Radiographic Positioning II RD 242</td>
<td>4</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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SUMMER

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JUNIOR YEAR

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<tr>
<td>Radiographic Positioning III RD 316</td>
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<tr>
<td>Special Radiographic Procedures RD 360</td>
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<tr>
<td>Medical &amp; Surgical Diseases RD 350</td>
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<tr>
<td>Laboratory Practicum RD 311-321</td>
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<tr>
<td>Clinical Experience RD 383-393</td>
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<tr>
<td>Radiologic Therapy &amp; Imaging System RD 338</td>
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</tr>
<tr>
<td>Radiologic Quality Assurance RD 340</td>
<td>3</td>
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<tr>
<td>Radiographic Positioning IV RD 320</td>
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<td>Area I CORE Elective</td>
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SUMMER

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</thead>
<tbody>
<tr>
<td>Clinical Experience RD 397</td>
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</table>

Baccalaureate Degree Curriculum

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

SENIOR YEAR

<table>
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<tbody>
<tr>
<td>SEM</td>
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<tr>
<td>Health Delivery Systems H 202</td>
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</tr>
<tr>
<td>Management and Organizational Theory MG 301</td>
<td>3</td>
</tr>
<tr>
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<tr>
<td>Area II CORE Elective</td>
<td>3</td>
</tr>
<tr>
<td>Organizational Behavior MG 401</td>
<td>3</td>
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<tr>
<td>Personnel Administration MG 305</td>
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<tr>
<td>Management of Radiology Service RD 400</td>
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<table>
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</thead>
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<tr>
<td>SEM</td>
<td>SEM</td>
</tr>
<tr>
<td>Electives from list below</td>
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</table>

Suggested Electives

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

Course Offerings

See page 20 for definition of course numbering system

RD RADIOLOGIC TECHNOLOGY

Lower Division

RD 211 LABORATORY PRACTICUM (0-3-1S). Laboratory demonstration and practice of the radiographic positions and procedures discussed in RD 222. COREQ: RD 222.

RD 221 LABORATORY PRACTICUM (0-3-1S). Laboratory demonstration and practice of the radiographic positions and procedures discussed in RD 242. COREQ: RD 242.

RD 222 RADIOGRAPHIC POSITIONING I (4-0-4S). The basic concepts and procedures used in obtaining diagnostic radiographs of the upper and lower extremities, chest and abdomen. COREQ: RD 211.


RD 227 RADIOLOGIC TECHNIQUE AND CONTROL LABORATORY (0-2-1F). Laboratory experience where students apply the principles of x-ray machine operation and practical application of all image materials. COREQ: RD 226.

RD 230 RADIATION BIOLOGY-PROTECTION (2-0-2S). General survey of radiation hazards and the potential consequences to both technologist and patient. Theorems and practical problems of minimizing the radiation dose will be emphasized. COREQ: RD major or PERM/INST.

RD 234 INTRODUCTION TO RADIOGRAPHY CLINICAL EXPERIENCE (2-0-2S). 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. COREQ: RD major or PERM/INST.

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

RD 285 RADIOLOGIC TECHNOLOGY CLINICAL PRACTICUM (0-240-4S). Supervised clinical hospital experience. The student must complete 75 minimum of recently taught radiographic exams and a minimum 32 hours in darkroom and office procedures. COREQ: RD 234.

Upper Division

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


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

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

RD 340 RADIOLOGIC QUALITY ASSURANCE (3-0-3S). Theory and application of quality assurance techniques for radiographic equipment. Includes demonstrations with various quality assurance instruments, principles and techniques of daily photographic quality assurance will be introduced. COREQ: RD 226.

RD 359 MEDICAL AND SURGICAL DISEASES (2-0-2F). General survey of various diseases and pathology of the human body as they pertain to radiology. Emphasis on how pathology is demonstrated on radiographs and its effect on radiographic quality. COREQ: RD 242.

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

RD 375 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-280-5S). Supervised clinical hospital experience. The student must complete 75% of recently taught radiographic exams plus 50% continued competency exam list. COREQ: RD 285.

RD 385 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-360-6S). Supervised clinical hospital experience. The student must complete 45% of recently taught radiographic exams plus 50% continued competency exam list. COREQ: RD 385.

RD 395 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-360-6S). Supervised clinical hospital experience. Students rotate through several minor affiliates and complete 50% of continued competency exam list. COREQ: RD 395.
RD 400 DEVELOPMENT OF A RADIOLOGY DEPARTMENT (3-0-3)(S). Introduction to the set up and operation of a radiology department including design principles, projection of demands and providing for growth and development. Structural and shielding requirements will be discussed. PREREQ: PERM/INST.

Department of Respiratory Therapy

2268 University Drive

Telephone (208) 385-3383

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

Department 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.

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

Requirements for Admission

RESPIRATORY THERAPY PROGRAM

1. Preprofessional Year
   a. See University Admission Policy.

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

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

1. Submit a negative PPD or chest x-ray 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 $17.50 as prepayment for student name pin and clinical insurance. This nonrefundable cost is payable by May 1.
   e. A $16.00 Lab Fee, per academic year, is payable to the department by September 1 of each professional year.

Promotion and Graduation

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

1. Professional Program
   a. Students must earn at least a “C” in every Biology, Health Science, Mathematics, 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>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English E 101-102</td>
<td>3</td>
</tr>
<tr>
<td>Human Anatomy &amp; Physiology Z 111-112</td>
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</tr>
<tr>
<td>Essentials of Chemistry &amp; Lab C 107-108</td>
<td>4</td>
</tr>
<tr>
<td>Intermediate Algebra M 108</td>
<td>4</td>
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<tr>
<td>Medical Terminology H 101</td>
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<td>Area I Core Elective</td>
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<td>Area II Core Elective</td>
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<tr>
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Professional Curriculum

FIRST PROFESSIONAL (SOPHOMORE) YEAR

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
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<tr>
<td>Respiratory Therapy Theory II RT223</td>
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<td>Respiratory Therapy Lab I RT204</td>
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<td>Respiratory Therapy Lab II RT224</td>
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<tr>
<td>Clinical Practicum I RT208</td>
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<tr>
<td>Clinical Practicum II RT228</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 206</td>
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<tr>
<td>General Pathology RT 209</td>
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<tr>
<td>Emergency Procedures in Resp Care RT 213</td>
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<tr>
<td>Chest Assessment RT 217</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory Values H 216</td>
<td>1</td>
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<tr>
<td>Area I or 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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<tr>
<td>Pulmonary Medicine I RT 227</td>
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<tr>
<td>Microbiology B 205</td>
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SECOND PROFESSIONAL (JUNIOR) YEAR

<table>
<thead>
<tr>
<th>1st SEM</th>
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<tbody>
<tr>
<td>Respiratory Therapy Theory III RT 303</td>
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<tr>
<td>Respiratory Therapy Theory IV RT 323</td>
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<tr>
<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>
<td>5</td>
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<tr>
<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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<tr>
<td>Pulmonary Medicine II RT 327</td>
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<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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</table>

Baccalaureate Degree Curriculum: Prerequisite for Admission:

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

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Personnel Administration MG 305</td>
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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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<tr>
<td>Intro Financial Accounting AC 205</td>
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<tr>
<td>Compensation Management MG 406</td>
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<td>Respiratory Therapy Colloquium RT 401</td>
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SENIOR YEAR: Education Option

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

Course Offerings

See page 20 for definition of course numbering system

RT RESPIRATORY THERAPY

Lower Division

RT 203 RESPIRATORY THERAPY THEORY I (2-0-2)(F). Medical gas therapy to include clinical gases, gas mixtures and various equipment. Theory and techniques of aerosol and humidification therapy; introduction to infection control and cardiopulmonary resuscitation. PREREQ: PERM/INST.

RT 204 RESPIRATORY THERAPY LABORATORY I (0-2-1)(F). Medical gas techniques. PREREQ: PERM/INST.

RT 208 CLINICAL PRACTICUM I (0-9-3)(F). Experience in the hospital with patients, techniques, and equipment. Emphasis on use of medical gases. PREREQ: PERM/INST.

RT 209 GENERAL PATHOLOGY (3-0-2)(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 217 CHEST ASSESSMENT (1-4-1)(F). Theory and application of basic chest assessment including inspection, palpation, percussion and auscultation. PREREQ: PERM/INST.

RT 223 RESPIRATORY THERAPY THEORY II (2-0-2)(S). Principles, application and equipment used for hyperinflation therapy. Therapeutic techniques and applications of chest physiotherapy. 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 228 CLINICAL PRACTICUM II (0-12-4)(S). Experience in the hospital 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 use and interaction of drugs and their relationship to disease. PREREQ: PERM/INST.

RT 303 RESPIRATORY THERAPY THEORY III (3-0-3)(F). Theory and clinical application of mechanical ventilator including care and management of artificial airways and hemodynamic monitoring. PREREQ: PERM/INST.

RT 304 RESPIRATORY THERAPY LABORATORY III (0-2-1)(F). Practice using mechanical ventilators and suctioning devices. PREREQ: PERM/INST.


RT 307 RESPIRATORY CARDIOLOGY (2-0-2)(F). Electrophysiology, stress and static testing procedures, and recognition of cardiac arrhythmias. PREREQ: PERM/INST.

RT 308 CLINICAL PRACTICUM III (0-16-5)(F). Experience in the hospital with patients, techniques and equipment as applied to mechanical ventilation and artificial airways. PREREQ: PERM/INST.

RT 323 RESPIRATORY THERAPY THEORY IV (2-0-2)(S). Theory and application of techniques and equipment to neonatology and pediatrics. PREREQ: PERM/INST.

RT 324 RESPIRATORY THERAPY LABORATORY IV (0-2-1)(S). Use of infant ventilators and specialty techniques pertaining to pediatrics. PREREQ: PERM/INST.

RT 327 PULMONARY MEDICINE II (2-0-2)(F). In-depth examination of pulmonary diseases, certain cardiac diseases, and the clinical management of these diseases. PREREQ: PERM/INST.

RT 328 CLINICAL PRACTICUM IV (0-24-8)(S). Experience in the hospital with any or all aspects of respiratory therapy. PREREQ: PERM/INST.

RT 398 RESPIRATORY THERAPY PROFESSIONAL SEMINAR (4-0-4)(S). Focuses on the ethics and medico-legal aspects of administering a respiratory therapy department. In addition, the problems of budgeting, facilities, in-service education, record systems, and in interdepartmental relations are considered. PREREQ: PERM/INST.

RT 401 RESPIRATORY THERAPY COLLOQUIUM (3-0-3)(S). Investigation of current topics in health care and Respiratory Therapy management. Field work may be combined with seminars to explore topics such as federal and state legislation, current trends in hospital accreditation and audit procedures, ethics of health care, and the role of the Respiratory Therapist as Manager. PREREQ: PERM/INST.
The Boise State University College of Technology provides for a focused response to the technological education and training needs of the region. In order to help Idaho achieve a strong growing economy, the educational system needs to provide the tools and structure necessary for engineering and technical education. The College of Technology is meant to focus Boise State University resources more effectively to address deficiencies in these areas and to create an environment that attracts new industry and helps existing industry grow. The College is consistent with Boise State University's mission of providing special emphasis in Applied Technology and entering into joint efforts with other institutions to provide needed educational programs.

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

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

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

Department of Construction Management and Pre-Engineering

Math/Geology Building, Room 214A Telephone (208) 385-3764
Chairman and Professor: Norm Dahm; Professors: Gabert, Parks; Associate Professors: Affleck, Haefer; Assistant Professors: Gains, Mason.

Degrees Offered

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

Degree Requirements

CONSTRUCTION MANAGEMENT PROGRAM
Bachelor of Science Degree

Accredited by the American Council for Construction Education (ACCE).

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

FRESHMAN

<table>
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<tr>
<th>Course</th>
<th>1st SEM</th>
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<tbody>
<tr>
<td>English Composition E 101-102</td>
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<td>Area I Elective</td>
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<tr>
<td>Calculus and Analytical Geometry M 204*</td>
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<tr>
<td>Materials &amp; Methods of Architecture AR 290</td>
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<tr>
<td>Engineering Fund and Comp Prog EN 107</td>
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<tr>
<td>Engineering Graphics EN 108</td>
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<tr>
<td>Intro to Management of Construction CO 240</td>
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144
SOPHOMORE

General Physics PH 101-102 ........................................... 4 4
Engineering Measurements EN 216 ................................. 3 -
Intro to Financial Accounting AC 205 ............................... 3 -
The Legal Environment of Business GB 202 .................... 3 -
Principles of Economics-Macro EC 201 ............................. 3 -
Construction Blue Print Commun CO 235 ...................... 2 -
Contracts and Specifications CO 246 ............................. 3 -
Intro to Mechanics EN 205 ............................................ 4 -
Intro to Managerial Accounting AC 206 ......................... 3 -
Principles of Economics-Micro EC 202 ............................ 3 -

JUNIOR

Construction Equipment & Methods CO 320 ..................... 3 -
Mechanical Installations CO 351 .................................... 3 -
Cost Estimating and Bidding CO 370 ............................. 4 -
Statistical Tech Dec Making I PR 207 ............................ 3 -
Principles of Finance FI 303 ....................................... 3 -
Mechanics of Materials EN 306 .................................... 3 -
Soil Mechanics and Foundation Const CO 330 ................. 3 -
Soil Mechanics Lab GO 305 ...................................... 1 -
Electrical Installations CO 352 .................................... 3 -
Construct Operations & Improve CO 374 ....................... 2 -
Human Resource Law MG 330 .................................... 3 -
Technical Writing E 202 .......................................... 3 -

SENIOR

Concrete & Formwork Construction CO 410 ................. 3 -
Project Scheduling & Control CO 417 ............................. 3 -
Fund of Speech Communication CM 111 ...................... 3 -
Technical/Management Electives** ....................................... 2 -
Area I Electives ..................................................... 3 -
Project Management CO 475 ..................................... 2 -
Project Controls CO 460 ......................................... 2 -
Organizational Behavior MG 401 ................................. 3 -
General Electives .................................................... 3 -

*Math – Competency Exam is required: M 020, M 108 and/or M 111 may be required prior to M 204.
**APPROVED TECHNICAL/MANAGEMENT ELECTIVES: CO 493, 497, EN 206, 301, 320, 382, GO 101, AC 351, RE 207, MG 305, 340, 415, MK 301, PR 345, AS 328, GB 360.

1. All Construction Management majors must complete at least 57 credits and have a cumulative grade point average of 2.40 or better before being admitted to any upper division (number 300 and above) business or construction management classes.
2. All construction management classes will be taking several field trips during the semester to be scheduled Friday afternoons.
3. No more than 32 credits may be taken from the College of Business.

Construction Management Minor

Engineering Graphics EN 108 ...................................... 2 -
Const Blue Print Communication CO 235 ...................... 2 -
*Intro Management of Construction CO 240 .................. 3 -
Contracts & Specifications CO 246 .............................. 3 -
Cost Estimating & Bidding CO 370 ............................. 4 -
*Const Operations & Improvements CO 374 .................... 2 -
*Project Scheduling CO 417 ...................................... 3 -

*Math and/or Physics prerequisite.

TOTAL 19

Recommended Program

PRE-ENGINEERING MAJOR

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

B.S. degrees in electrical engineering and computer engineering are available on the Boise State campus from the University of Idaho. Contact your BSU advisor or the University of Idaho Director of Engineering Education for details.

Recommended Freshman Year

1st SEM 2nd SEM

Recommended Year

English Composition E 101-102 ........................................... 3 3
Calculus & Analytical Geometry M 204-205 ....................... 5 4
College Chemistry C 131-132-133* ............................... 4 3
Engineering Fund & Comp Prog EN 107 ............................. 3 -
Engineering Graphics EN 108 ....................................... 2 -
Humanistic Social Elective ............................................ 3 -

COMMON CORE FOR ALL BRANCHES

Humanistic Social Electives (See Advisor) ......................... 12
Mechanics, Waves & Heat + Lab PH 211-212 ...................... 5
Electricity, Magnetism & Optics + Lab PH 213-214 .............. 5
Elect. Engr. Circuits EN 227# ....................................... 3
Mechanics/Statics EN 205 ........................................... 3
Calculus & Analytic Geometry M 206 ............................... 4
Differential Equations M 331 ....................................... 3
Mechanics of Materials EN 306† .................................. 3
Fluid Mechanics EN 3011 ........................................... 3

TOTAL 41

ADDITIONAL TRANSFERABLE COURSES

BRANCH VARIATION

Agricultural Engineering

FRESHMAN YEAR PLUS COMMON CORE ..............................................
Mechanics/Dynamics EN 206 ........................................... 3
Thermodynamics and Heat Transfer EN 320 ....................... 3
Engineering Measurements EN 216 ...........................................
Biological Science Elective ............................................. 3

TOTAL 83

Chemical Engineering

FRESHMAN YEAR PLUS COMMON CORE ..............................................
Mechanics/Dynamics EN 206 ........................................... 3
Thermodynamics and Heat Transfer EN 320 ....................... 3
Technical Writing E 202 ............................................. 3
Engineering Measurements EN 216 ...........................................
Physical Geology GO 101 ............................................. 4

TOTAL 87

Civil Engineering

FRESHMAN YEAR PLUS COMMON CORE ..............................................
Mechanics/Dynamics EN 206 ........................................... 3
Thermodynamics and Heat Transfer EN 320 ....................... 3
Technical Writing E 202 ............................................. 3

TOTAL 89

Electrical Engineering

FRESHMAN YEAR PLUS COMMON CORE ..............................................
Systems and Circuits II EN 223 ....................................... 5
Technical Writing E 202 ............................................. 3
Digital Circuits I EN 230 ............................................. 4
Electricity & Magnetism PH 381-382 ............................... 6

TOTAL 89

Mechanical Engineering

FRESHMAN YEAR PLUS COMMON CORE ..............................................
Prin of Economics EC 201-202 (Hum-Soc) ......................... 5
Systems and Circuits II EN 223 ....................................... 5
Mechanics/Dynamics EN 206 ........................................... 3
Thermodynamics and Heat Transfer EN 320 ....................... 3

TOTAL 85

Geological Engineering

FRESHMAN YEAR PLUS COMMON CORE ..............................................
Prin of Economics EC 201 ........................................... 3
Mechanics/Dynamics EN 206 ........................................... 3
Thermodynamics and Heat Transfer EN 320 ....................... 3

TOTAL 87
School of Applied Technology

Metallurgical Engineering

FRESHMAN YEAR PLUS COMMON CORE

Technical Writing E 202 .................................................. 3
Physical Chemistry C 321-322-323-324 .......................... 8
Math Elective .................................................................. 3
TOTAL .............................................................................. 85

Mining Engineering

FRESHMAN YEAR PLUS COMMON CORE

Technical Writing E 202 .................................................. 3
Engineering Measurements EN 216 ............................. 3
Physical Geology GO 101 ............................................... 4
TOTAL .............................................................................. 87

General Engineering (IDAHO STATE)

FRESHMAN YEAR PLUS COMMON CORE

Mechanics/Dynamics EN 206 .............................................. 3
Thermodynamics and Heat Transfer EN 320 ................. 3
Engineering Measurements EN 216 ............................. 3
Fund of Speech Communication CM 111 ....................... 3
Science Elective ................................................................. 3
TOTAL .............................................................................. 86

Course Offerings

See page 20 for definition of course numbering system

CO CONSTRUCTION MANAGEMENT

Lower Division

CO 235 CONSTRUCTION BLUE PRINT COMMUNICATIONS (2-0-3F). The transmission and interpretation of blueprint communications covering different types of drawings, including their organization and format. Emphasizing three-dimensional visualization to make practical applications and determine quantities of work. Learn how to interpret quickly and visualize what is being presented by the drawings. Friday field trips required. PREREQ: EN 108.

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

CO 246 CONTRACTS AND SPECIFICATIONS (3-0-3S). Contracts, contract documents and specifications for construction including legal as well as technical implications, claims, change orders and contract administration, emphasizing Owner-Engineer/Architect-Contractor functions and related problems. Friday field trips required. PREREQ: CO 240.

Upper Division

CO 330 CONSTRUCTION EQUIPMENT & METHODS (3-0-3F). Characteristics, capabilities, limitations and employment of general building and heavy construction equipment. Friday field trips required. PREREQ: EN 205.

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

CO 351 MECHANICAL INSTALLATIONS (3-0-3S). The fundamentals of mechanical installations and associated construction problems including heat loss and gain, heating, ventilating and air-conditioning, fluid flow in pipes and ducts as well as water supply, sewage, and fire protection installations. Friday field trips required. PREREQ: PH 102 and EN 265.

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

CO 370 COST ESTIMATING AND BIDDING (3-0-3F). Extracting quantity take-offs from drawings, classifying the work in accordance with specifications, compiling and pricing estimates and preparation of bids. PREREQ: CO 235, CO 246 and M 111 or equivalent.

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


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

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

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

EN ENGINEERING

Lower Division

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

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

EN 104 (CS 124) DIGITAL COMPUTER PROGRAMMING (2-0-2F/5). An introduction to FORTRAN programming principles and logic including input-output, flow charting, handling arrays and subprograms, all applied to problem solving. PREREQ: M 106 or M 108.

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

EN 108 ENGINEERING GRAPHICS (2-2-2F). Engineering graphical analysis and graphic transmission of information including use of micro computer design and drafting systems. PREREQ: EN 107 or EN 101.

EN 205 MECHANICS/STATICS (3-0-3). Covers basic statics including equilibrium, analysis of trusses, frames and machines, centroids, static friction and moments of inertia. PREREQ: M 204 or PERM/INST.

EN 206 MECHANICS/DYNAMICS (3-0-3S). Kinematics and kinetics of both particles and rigid bodies using the concepts of force, mass acceleration, work and energy plus impulse and momentum for general plane motion. PREREQ: EN 205.

EN 215 BASIC SURVEYING (1-3-2F). A basic course in surveying for non-engineering majors. Course covers use of transit, level, plane table and computations related to evaluation, traverse and stadia surveys. PREREQ: M 111 or equivalent.

EN 216 ENGINEERING MEASUREMENTS (2-3-3S). Theory and practice; manipulation of instruments for horizontal and vertical distance measurements and angle measurements; types and distribution of errors; route and land surveying; construction surveying introduction to photogrammetry. PREREQ: M 111 or equivalent.

EN 221 SYSTEMS AND CIRCUITS I (3-0-3F). The fundamental course in electrical engineering which provides an introduction to electrical circuits and basic network analysis. Topics covered are simple resistive, capacitive and inductive circuits, network theorems and circuit analysis methods, and Laplace transforms. PREREQ: M 204.

EN 223 SYSTEMS AND CIRCUITS II (4-3-5S). A continuation of EN 221 extending into second order circuits, the use of phasors, AC steady-state analysis and frequency-domain analysis, polyphase circuits, transformers, filters and Fourier analysis. PREREQ: EN 221 and M 205.

EN 227 ELECTRICAL ENGINEERING CIRCUITS (3-0-3F). A survey course in circuit analysis for engineering majors other than electrical and mechanical. Topics covered include D.C. and A.C. circuit analysis using the basic network theorems and analysis methods. PREREQ: M 204.
EN 230 DIGITAL CIRCUITS I (3-0-4)(F). An introduction to number systems, Boolean algebra, logic gates, Karnaugh mapping, combinational circuits, registers, and arithmetic operations. PREREQ: Math equivalent to M 106, 108, 111; offered every odd numbered year.

Upper Division

EN 301 FLUID MECHANICS (3-0-3)(S). Physical properties of fluids: fluid mechanics and measurements; viscous and turbulent flow, momentum, lift, drag, and boundary layer effects; flow in pipes and open channels. PREREQ: EN 205 and EN 206.

EN 306 MECHANICS OF MATERIALS (3-0-3)(S). Elasticity, strength, and modes of failure of engineering materials, theory of stress and strains for columns, beams and shafts. Three class periods per week. PREREQ: M 205 or PERM/INST and EN 205.

EN 320 THERMODYNAMICS AND HEAT TRANSFER (3-0-3)(F). First and second laws of thermodynamics, thermodynamic processes; thermodynamic properties of fluids; flow processes; heat to work conversion; refrigeration, conduction and radiation. PREREQ: M 206 and PH 211.

EN 382 ENGINEERING ECONOMY (2-0-2). Economic analysis and comparison of engineering alternatives by annual-cost, present-worth, capitalized cost, and rate-of-return methods; income tax considerations. PREREQ: Junior standing.

Bachelor of Applied Science Degree

The College of Technology offers a Bachelor of Applied Science degree in a Vocational Technical field. The Bachelor of Applied Science degree is designed to build upon the Associate of Applied Science Degree (A.A.S.) or selected Associate of Science (A.S.) degrees.

Graduates of technical programs that meet the Idaho standards for the A.A.S. degree and are accredited by a regional accrediting body that is recognized by the Council of Postsecondary Accreditation are eligible for admission. The minimum requirements for the A.A.S. degree include:

- Vocational or Technical education courses .............. 42 credits
- Vocational or Technical support courses .............. 10 credits
- General education courses .................................. 12 credits

TOTAL 64 CREDITS

Exceptions to the above must be reviewed by the Dean, College of Technology for a determination regarding eligibility for admission. Credit for prior learning will be determined in accordance with prevailing institutional policy.

Recommendations for admission to the Bachelor of Applied Science Degree must be obtained from the Dean, College of Technology. The interested student must be formally admitted into the Bachelor of Applied Science degree program by the Dean, College of Technology.

1. Vocational Technical Education Program ......................... 64
2. General University Requirements ................................. 64
   English Composition ............................................ 3-6
   NOTE: Number of required credits is determined by student score on ACT exam. See General University Requirements (Core) for details.

3. Area I Requirements
   Arts & Humanities ............................................. 12
   Three fields must be represented

4. Area II Requirements
   Social Sciences .................................................. 12
   Three fields must be represented

5. Area III Requirements
   Natural Sciences and Mathematics .............................. 12
   Two fields must be represented
   NOTE: Student seeking a B.A.S. with an A.S. degree in Marketing: Mid-Management must complete M 105 and M 106 in addition to the requirements listed above.
   NOTE: University Core courses used to meet vocational technical education requirements cannot be used to meet the above listed Area requirements.

6. Students seeking the B.A.S. degree must have an additional 9 credits chosen from upper division courses in any of the following disciplines (Social Science and Natural Sciences-Mathematics must be represented):
   - Anthropology
   - Biology
   - Chemistry
   - Communication
   - Mathematics
   - Physical Science
   - Physics
   - Political Science

7. Upper Division Electives ............................................ 13

NOTE: Students seeking the B.A.S. degree must earn a minimum of 22 upper division credits.
School of Vocational Technical Education

Acting Dean: Tom Denison, Ph.D.

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

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

• Technical Division:
  Gary Arambarri, Division Manager.

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, Dallas, Fleshman, Fuehrer, Hager, Hoff, King, Krigbaum, Lamborn, Leigh, Lingenfelter, Tennyson, Thompson, Trapp, Weston
Objectives of Vocational Education
To provide the opportunity for state and local citizens to acquire the education necessary:
1. To become employed, to succeed, and to progress in a Vocational Technical field.
2. To meet the present and anticipated needs of the local, state and national economy for employees with a Vocational Technical education.
3. To become contributing members of the social, civic, and industrial community.

Admissions Requirements
Students who plan to enter the School of Vocational Technical Education, Boise State University, must submit the following at least one month prior to the start of classes:
1. An official high school transcript showing date of graduation, a high school equivalency certificate, or a GED certificate showing scores earned.
2. Boise State University application—(Vocational Student Services Office; $15.00 application processing fee required).
3. Completion of an entrance assessment THE ASSET EXAMINATION which can be taken at any Idaho Post Secondary Vocational Technical School. There is no fee for the Asset Examination.
4. Personal interview with a School of Vocational Technical Education counselor.
5. $75.00 registration advance security deposit to the School of Vocational Technical Education. This is applied to fees upon registration and is refundable only with justifiable cause. The deadline to apply for the refund is thirty calendar days before classes begin. A limited number of students can be accepted in each program so all admission requirements should be completed as soon as possible.

When steps 1-4 have been completed and you have been accepted by the Vocational Technical School, you are eligible to pay the $75.00 advance deposit. You are not admitted into a program until steps 1 through 5 have been completed.

Pre-Technical Instruction
Free tutorial assistance for reviewing math, English and/or reading skills is available to those interested in entering vocational technical programs. Please call (208) 385-3681 or (208) 385-3261 for information.

Adult Learning Center
Elaine Simmons, Department Chairperson

No Credit Granted
The Adult Learning Center operates an open entry/open exit program with individualized assistance provided by staff and volunteers. The following instruction and services are provided to adults at the Boise location on campus as well as at many outreach sites throughout the 10 counties of Southwest Idaho:
- Basic skills instruction in reading, math, English, and writing.
- Instruction and materials for GED and American Government testing preparation.
- GED and American Government testing for the High School Equivalency Certificate.
- Literacy instruction for non-readers.
- English as a Second Language instruction.
- Citizenship preparation classes.
- Tutorial assistance for those needing help in meeting entrance requirements for B.S.U. vocational technical programs.
- Job Training Partnership Act opportunities through the Southwest Idaho Private Industry Council.
- Southwest Center for New Directions—assistance to homemakers and single parents through counseling, workshops, and support groups.
- Older Workers Employment Opportunity Program provides training and job placement services to qualified persons 55 years of age and older.
- Career counseling, assistance in developing employability skills and the Career Information System for program participants.
- Computer literacy instruction for program participants.

All services except GED and American Government testing are provided at no cost to those enrolled at the Adult Learning Center. For information or assistance, please call the Adult Learning Center at (208) 385-3681.

Graduation Requirements
All candidates for a Certificate of Completion, Diploma, or Associate of Applied Science Degree must have a minimum of a ‘C’ grade in the major (technical) coursework. A 2.0 grade point average is required in all other required coursework.

Curriculum Changes
The curriculum in vocational technical programs must reflect the changes and current practices of Business & Industry. Program and course curricula are changed as needs dictate. An approved process is followed prior to implementation of curriculum changes.

Certificate of Completion
The Certificate of Completion is conferred upon students who successfully complete a vocational technical program which is less than a two year curriculum.

Diploma
A Diploma is conferred upon students who successfully complete a two year program but opt not to complete the academic requirements for the Associate of Applied Science degree.

Associate of Applied Science Degree
Two year programs in the School of Vocational Technical Education lead to an Associate of Applied Science degree. The standard requirements for this degree are as follows:
1. Technical Education Requirements — 52 credit hours or equivalent clock hours.
   a. Technical Course work: 42-46 credit hours or equivalent clock hours. (Minimum)
      Program elements which contain instruction directly related to a specific technical area (i.e., skills and knowledge that a person must possess to function as a technician). Course content is determined through a task analysis of the occupation for which training is provided. Local advisory committees may provide additional information.
   b. Technical Support Course work: 10-14 credit hours or equivalent clock hours.
      Course work which supports and relates to the technical content of the program. Content provides the basic tasks needed for the individual to function at an acceptable level within the technical field.
      Example: Mathematics/Physical Science/Etc.
2. General Education Requirements: 12 credit hours or equivalent clock hours.
   Six credits in the area of Communication Skills; the remaining credits in economics, industrial relations, or human relations.
3. Graduation Requirements:
   a. All candidates for the Associate of Applied Science degree must have a minimum of a ‘C’ grade in the major (technical) coursework. A 2.0 grade point average is required in all other required coursework.
   b. Students requesting admittance to the Bachelor of Applied Science program must make application through the Office of Vocational Student Services, School of Vocational Technical Education. The College of Technology requires that all students admitted to the BAS degree program have no grade lower than a ‘C’ in their major. The AAS degree is the major in a Bachelor of Applied Science degree program.
Apprenticeship, Trade Extension and Job Upgrading

Managers: Gary Arambbarri, 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 workers receiving on-the-job instruction in such vocations as sheetmetal, carpentry, plumbing, welding, electricity, electronics, word processing, automotive, nursing, and farming.

Information concerning admission requirements, costs, dates, etc., may be obtained from Boise State University School of Vocational Technical Education. Phone: (208) 385-1974.

Programs Offered

Agricultural Equipment Technology—Nine Month Program

Certificate of Completion

Instructor: Marlin Gaines

The Agricultural Equipment Technology Program is designed to prepare students for employment in the repair of equipment used in the production and harvesting of agricultural products. Procedures from field troubleshooting to shop overhaul on various types of equipment will be covered. Theory and principles of operation will be stressed including a strong emphasis on safety procedures. This program is incorporated in the Heavy-Duty Diesel Program which allows enhancement of skills. A minimum grade of 'C' is required in all coursework to graduate with a certificate of completion.

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Eight Week Block</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Basic Mechanics AE 105</td>
<td>1</td>
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<tr>
<td>*Intro to Engines DM 106</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*Engine Component Systems DM 107</td>
<td>2</td>
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<td>*Engine Fuel Systems DM 108</td>
<td>2</td>
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Second Eight Week Block

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<tr>
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<tbody>
<tr>
<td>Basic Metal Work &amp; Welding AE 125</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>*Clutches &amp; Transmissions DM 110</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>*Power Take-Off &amp; Drive Lines DM 111</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>*Differential, Power Dividers, Final Drive &amp; Planetary Systems DM 112</td>
<td>2</td>
<td></td>
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<tr>
<td>*Hydraulic Assist Transmissions &amp; Hydrostatic Drives</td>
<td>1</td>
<td></td>
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<tr>
<td>AD 135</td>
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Third Eight Week Block

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<thead>
<tr>
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<tbody>
<tr>
<td>Basic Electrical &amp; Magnetism Theory DM 113</td>
<td>2</td>
<td></td>
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<tr>
<td>*Batteries, Switches, Relays &amp; Solenoids DM 114</td>
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<td></td>
</tr>
<tr>
<td>Lighting Systems, Trouble Shooting AE 140</td>
<td>2</td>
<td></td>
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<tr>
<td>Occupational Relations AE 265</td>
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<tr>
<td>**Intro to Microcomputers AM 180</td>
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Fourth Eight Week Block

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<thead>
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<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Basic Hydraulics DM 115</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Advanced Hydraulics AE 145</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Air Conditioning Systems AE 150</td>
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</tr>
<tr>
<td>Hay &amp; Forage AE 155</td>
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<tr>
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</tr>
</tbody>
</table>

*See Heavy Duty Mechanics—Diesel Program for course descriptions.
**See Auto Mechanics Program for course description.

Course Offerings

See page 20 for definition of course numbering system

AE AGRICULTURAL EQUIPMENT TECHNOLOGY

AE 105 BASIC MECHANICS (1-3-1)(F). Basic principles of heavy duty and agricultural mechanics, including orientation, shop math, hand tools, fasteners, shop equipment and safety will be covered.


AE 135 HYDRAULIC ASSIST TRANSMISSIONS AND HYDROSTATIC DRIVES (1-3-1)(F). This course covers the theory and repair procedures for overhaul of hydraulic assist transmissions and hydrostatic drive systems.

AE 140 LIGHTING SYSTEMS, TROUBLE SHOOTING (2-6-2)(S). This course covers the theory and repair procedures on the various types of lighting systems, and troubleshooting of the electrical system.

AE 145 ADVANCED HYDRAULICS (1-7-2)(S). This course covers the diagnosis and repair procedures associated with open and closed-center hydraulic systems, and tracing hydraulic flows through circuits.

AE 150 AIR CONDITIONING SYSTEMS (1-7-2)(S). This course covers the basics of air conditioning, refrigerants, and oil, basic system — how it works service equipment, inspecting and diagnosing the system, testing and adjusting the system, and preparing system for service.

AE 155 HAY AND FORAGE (1-7-2)(S). This course covers types, sizes, operation of balers and stack wagons, preliminary setting and adjustments, and trouble shooting of field problems.

AE 265 OCCUPATIONAL RELATIONS (2-0-1)(S). This course teaches technical in completing a job application form, job keeping skills, job searching, and resume writing.

Auto Body—Eleven Month Program

Certificate of Completion

Instructor: Charles Parke

The Auto Body Program curriculum is designed to provide the student with the basic skills necessary for employment in the auto body industry. This training provides students with the necessary skills and knowledge for employment in the Auto Body trade and closely related crafts. Training includes Auto Body theory, welding (plastics, braze, mildsteel, wirefeed), painting (lacquer, acrylic enamel, urethanes, blending, matching), metal working (repair, replace, shrinking), frame alignment and repair, repair of new cars (UniCoupe Repair, UniCoupe Bench Systems). A Certificate of Completion is issued upon satisfactorily completion of all skills in the eleven month program.

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Body Lab AB 121-122-123</td>
<td>10</td>
<td>10</td>
<td>7</td>
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<tr>
<td>Auto Body Theory AB 141-142-143</td>
<td>7</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Occupational Relationships AB 262</td>
<td>-</td>
<td>2</td>
<td></td>
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<tr>
<td>TOTAL</td>
<td>17</td>
<td>17</td>
<td>12</td>
</tr>
</tbody>
</table>

Course Offerings

See page 20 for definition of course numbering system

AB AUTO BODY

AB 121-122-123 AUTO BODY LABORATORY (0-25-10)(F/S/SS)(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 fundamentals, metal working, 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), (0-0-5)(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 (2-0-2)(S). 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**

<table>
<thead>
<tr>
<th>Course Title</th>
<th>1st</th>
<th>2nd</th>
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</thead>
<tbody>
<tr>
<td>Maintenance Welding Technology IM 101</td>
<td>3</td>
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<tr>
<td>Maintenance Machine Fundamentals IM 102</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electro-Mechanical Systems IM 110-111</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Basic Fluid Power Operations IM 121-122</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Industrial Mechanical Laboratory IM 131-132</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Industrial Technology Communications IM 162</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Occupational Relationships IM 262...</td>
<td>2</td>
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</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

See Industrial Mechanics/Automation for detailed course descriptions.

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 Title</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Mechanics AM 101...</td>
<td>1</td>
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<tr>
<td>Automotive Service Cooling AM 102...</td>
<td>2</td>
<td></td>
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<tr>
<td>Automotive Brakes AM 110...</td>
<td>2</td>
<td></td>
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<tr>
<td>Front End &amp; Alignment AM 115</td>
<td>2</td>
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<tr>
<td>Auto Electrical Systems AM 123...</td>
<td>5</td>
<td></td>
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<tr>
<td>Engine Performance AM 130...</td>
<td>5</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>17</td>
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</tbody>
</table>

AM 117 AUTOMOTIVE BRAKE SYSTEMS (1-4-2)(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 Command Control 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 component systems. PREREQ: AM 120.

AM 150 EMISSION SYSTEMS (1-4-2)(SU). 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 (3-4-4)(F). 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 (2-0-1)(S). Introduces the student to microcomputer skills related to the mechanical service field.

AM 190 AUTOMOTIVE HEATING AND AIR CONDITIONING (1-4-2)(S). This course introduces students to the principles and design of the heating and air conditioning system used in today's automobiles, and teaches the student troubleshooting and repair techniques.

AM 195 ADVANCED ENGINE PERFORMANCE (3-4-4)(SU). The student will be taught the use of advanced diagnostic equipment to troubleshoot and repair systems. PREREQ: PERM of Division Manager.

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 Eglund, 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 the 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**

**Fall** | **Spring**
--- | ---
Business Math OF 105 | 3
Business English OF 109 | 3
Keyboarding OF 106 | 3
OR | 4
Intermediate Typing OF 156 | 3
Intro to Information Processing OF 154 | 3
Basic Office Procedures OF 107 | 3
Business Writing OF 159 | 3
Word Processing I OF 203 | 3
Intermediate Typing OF 156 | 3
OR | 4
Advanced Typing OF 157 | 3
Record Keeping OF 155 | 3
Job Seeking Skills/Career Development OF 153 | 3
Proofreading and Spelling OF 119 | 3
**TOTAL** | 16 19

**ASSOCIATE OF APPLIED SCIENCE DEGREE**

**BUSINESS AND OFFICE EDUCATION**

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

**SOPHOMORE YEAR**

**Fall** | **Spring**
--- | ---
Bookkeeping I OF 108 | 4
Office Skills Practicum/Bookkeeping OF 016 | 0
Spreadsheet I OF 201 | 2
Intro to Data Base Management OF 202 | 2
Applied Business Communications OF 252 | 3
Legal Environment of Business GB 202 | 3
*Elective | 3
Bookkeeping II OF 152 | 4
Computerized Bookkeeping OF 204 | 5
Spreadsheet II OF 254 | 4
Fundamentals of Supervision OF 253 | 3
*Elective | 3
**TOTAL** | 17 19

**ASSOCIATE OF APPLIED SCIENCE DEGREE**

**BUSINESS AND OFFICE EDUCATION** (Secretary Option)

This option is designed for the student to obtain a basic knowledge of the business world and to develop the necessary skills to perform competently the duties required of a 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 secretary, but will also have developed basic skills in proofreading and spelling, English usage, shorthand, word processing, machine transcription, record keeping, and computer literacy.

**SOPHOMORE YEAR**

**Fall** | **Spring**
--- | ---
Basic Shorthand OF 125 | 5
Computer Business Applications OF 206 | 3
Machine Transcription OF 158 | 3
Applied Business Communications OF 252 | 3
*Elective | 3
Intermediate Shorthand OF 151 | 5
Records Management Procedures OF 251 | 3
Fundamentals of Supervision OF 253 | 3
Advanced Typing OF 157 | 4
Word Processing II OF 255 | 3
**TOTAL** | 17 18

**ASSOCIATE OF APPLIED SCIENCE DEGREE**

**BUSINESS AND OFFICE EDUCATION** (Word Processing Option)

This option is designed for the student to obtain a basic knowledge of the business world and to develop the necessary skills to perform competently the duties required of an entry level word processing operator.

Upon successful completion of this option, the learner will not only possess the necessary skills and knowledge to enter the world of work as a word processing operator, but will also have developed basic skills in proofreading and spelling, English usage, word processing, machine transcription, record keeping, and computer literacy.

**SOPHOMORE YEAR**

**Fall** | **Spring**
--- | ---
Machine Transcription OF 158 | 3
Advanced Typing OF 157 | 4
Applied Business Communication OF 252 | 3
Computer Business Applications OF 206 | 3
*Electives | 6
Records Management Procedures OF 251 | 3
Word Processing II OF 255 | 3
Fundamentals of Supervision OF 253 | 3
Office Skills Practicum/Word Processing OF 015 | 0
*Electives | 6
**TOTAL** | 19 15

*Approved Electives for the Associate of Applied Science Degree

- Fund of Speech Communication CM 111 | 3
- General Psychology P 101 | 3
- Intro to Business GB 101 | 3

**Course Offerings**

See page 20 for definition of course numbering system

**OF OFFICE OCCUPATIONS**

**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 019 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 050 KEYBOARDING** (3-4-3)(F/S). Beginning course introducing the keyboard and basic typing skills. Emphasizes formatting business correspondence, tables and manuscripts. A speed of 30 WPM should be attained.

**OF 055 BASIC OFFICE PROCEDURES** (3-3-3)(F/S). This course provides training in filing, telephone techniques, mailing procedures, making appointments, arranging conferences, preparing itineraries, receiving and routing callers, practice in typing the various office forms, and introduction to machine transcription. PREREQ: Demonstrated proficiency in typing.

**OF 056 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 095 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 099 PROOFREADING AND SPELLING** (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 123 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 123 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 108.
OF 153 JOB SEEKING SKILLS/CAREER DEVELOPMENT (2-4-3)(F/S). Will help students analyze their job needs and skills and prepare them to present these needs and skills to a prospective employer in a professional manner. Emphasizes self-analysis, researching employers, resume and cover letter, effective interview techniques, and career planning.

OF 154 INTRO TO INFORMATION PROCESSING (3-6-3)(F/S). An introduction to the fundamentals of computers 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 (3-4-0)(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 45 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 and 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 (2-0-20)(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 (1-0-1)(F/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 (1-0-1)(F/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 (1-4-2)(F/S). Introduction to electronic spreadsheets. Presents concepts of spreadsheet software; understanding the worksheet elements; the command menu; entering numbers, formulas and labels, specifying ranges; entering simple formulas, editing, and printing. An eight-week course. PREREQ: OF 201.

OF 202 INTRO TO DATA BASE MANAGEMENT (1-4-2)(F/S). Introduction to data base 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 (2-4-3)(F/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 (4-4-5)(F/S). An introduction to the principles utilizing computers to set up and to maintain a set of books that are common in many small business operations. 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 (4-4-5)(F/S). Emphasis is on continued speed building in taking dictation and transcribing. Includes course review of business vocabulary, punctuation, and grammar. PREREQ: OF 151 or advanced placement through proficiency exam.

OF 206 COMPUTER BUSINESS APPLICATIONS (3-3-3)(F/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 207 RECORDS MANAGEMENT PROCEDURES (2-4-3)(F/S). A study of the principles and procedures of records management, including creation, retention, processing, protection, transfer, and disposal of records.

OF 255 WORD PROCESSING II (2-4-3)(F/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.

FRESHMAN YEAR

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<td>COMMUNICATION SKILLS BM 111-112</td>
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<td>CUSTOMER RELATIONS BM 113</td>
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SOPHOMORE YEAR

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Course Offerings

See page 20 for definition of course numbering system.

BM BUSINESS MACHINE TECHNOLOGY

BM 111-112 COMMUNICATION SKILLS (3-0-3)(F/S). Objective to enable students to use language effectively as a tool for the Office Machine Industry; i.e., effective writing and verbal communication for sales and technical repair. (3 clock hours per week).

BM 113 CUSTOMER RELATIONS (2-0-2)(F/S). Directed toward the tact and methods necessary to communicate with the public. (2 clock hours per week.)

BM 155 BUSINESS MACHINE TECHNOLOGY (5-17-9)(F). This is a hands on theory/lab course in which the student is taught basic mechanical applied theory. (20 clock hours per week.)

BM 156 BUSINESS MACHINE TECHNOLOGY (5-15-9)(F). This is a hands on theory/lecture lab course in which the student is taught basic concepts of business machine repair. (22 clock hours per week).

BM 157-158 BASIC ELECTRONIC THEORY (4-1-4)(F/S). Deals with basic electronics including properties of electronic components (5 clock hours per week).

BM 255-256 ADVANCED BUSINESS MACHINE TECHNOLOGY (7-17-11)(F/S). This is a hands on theory/lab course in which the student is taught basic concepts of business machine repair including a special emphasis in troubleshooting techniques. Shop management, retail selling, computer programming and related math are also included. (24 clock hours per week) PREREQ: BM 155-156-157.

BM 271-272 ADVANCED ELECTRONIC THEORY (7-0-7)(F/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

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<td>Introduction to Child Development CC 151</td>
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<td>Communication Skills CC 111-112</td>
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<td>Intro to Occupational Relations CC 161</td>
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<td>Curriculum of the Young Child CC 171-172</td>
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<td>Child Care Laboratory CC 181-182</td>
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<td>Contract Fld Exper in Early Child Prg CC 125-126</td>
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<td>Plan and Eval of Laboratory Exper CC 135-136</td>
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Day Care Teacher/Supervisor

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<td>Intro to Kindergarten Curriculum CC 256</td>
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<td>Infant Care CC 257</td>
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<td>Occupational Relationships CC 261</td>
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<td>Feeding Children CC 241-242</td>
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<td>Child Care Center Supervision CC 201-202</td>
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<td>Contract Pract in Early Child Superv CC 225-226</td>
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Course Offerings

See page 20 for definition of course numbering system

CC CHILD CARE STUDIES

CC 101-151 INTRODUCTION TO CHILD DEVELOPMENT (3-0-3)(F/S). Basic principles of child growth and development, the individual needs of preschool children, their language development, understanding their behavior and techniques of guidance and discipline.

CC 111, 112 COMMUNICATION SKILLS (3-0-3)(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.

CC 125-126 CONTRACTED FIELD EXPERIENCE IN EARLY CHILDHOOD PROGRAMS (0-4-1)(F/S). Individual contract arrangement involving students, instructor and cooperating community agency to gain practical experience in off-campus settings. The student will visit, observe, and participate in community child care settings.

CC 135-136 PLANNING AND EVALUATION OF LABORATORY EXPERIENCE (2-0-2)(F/S). 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)(F). Safety practices, basic nutrition, general health education, identification, 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)(S). Instruction and practical application in resume writing, job applications, interviewing techniques and job search. The course will include: Personal money management, credit and management of personal records and files.

CC 171-172 CURRICULUM OF THE YOUNG CHILD (3-0-3)(F/S). 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)(F/S). 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, and staff responsibilities.

CC 201-202 CHILD CARE CENTER SUPERVISION (1-12-3)(F/S). 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 (0-6-2)(F). 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 (3-2-3)(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)(F/S). 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)(F). 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)(F). 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 (2-0-2)(S). 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)(S). 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
Associate of Applied Science—2 Years

Instructors: Vernon Hickman, CWC, Julie Kulm, CWC, CCE, Manley Slough, CEC

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.

### Course Offerings

**See page 20 for definition of course numbering system**

**CA CULINARY ARTS**

**CA 102 CULINARY SKILLS DEVELOPMENT (3-2-3)/F(S).** During this introduction to the fundamental concepts, skills and techniques of basic cookery, special emphasis is given to the study of ingredients, cooking theories and procedures. Basic cooking methods stressed and practiced including: sauteing, broiling, roasting, poaching, simmering, braising, pan frying, deep fat frying, stewing and fricasseeing.

**CA 103 SANITATION, SAFETY & HEALTH (2-2-0)/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 Program facilities in their production areas.

**CA 104 INTRODUCTORY BAKING (2-1-2)/F(S).** This course gives instruction in the fundamentals of baking science, terminology, equipment, technology, ingredients, weights and measures, formula conversion, and storage.

**CA 105 COST CONTROL (1-0-1)/F(S).** An introduction to the food service cost control method, procedures and math.

**CA 109 CULINARY FRENCH (1-0-0)/F(S).** Explanations of basic culinary French terminology and menu phrases.

**CA 112 Introductory Hot Foods (3-2-3)/F(S).** Basic menu items such as soups, sauces, stocks, vegetables, and entrees are prepared. Fundamental concepts and techniques of food preparation are first demonstrated by the 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, teas and fancy sandwiches, and hot and cold appetizers.

**CA 114 COMMUNICATION SKILLS (3-0-3)/F(S).** Study of terms, attributes, and the mechanics of language for logical thinking, speaking, and writing. Training includes an introduction to inference using both verbal and symbolic techniques. Industrial applications include organization and delivery of technical reports in written and oral forms, business correspondence, and resume preparation.

**CA 115 DINING ROOM PROCEDURES (2-2-2)/F(S).** This basic course in dining room and supervision covers equipment, personnel responsibility, organization, customer relations, sanitation, table arrangements and set-ups. Service techniques for American table service are practiced. Basic gunneron 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 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 (2-0-2)/F(S).** Basic principles of effective supervision, including human relations, motivation, communications, proper training principles, interviewing, staffing, and discipline are covered. Stewarding functions and responsibilities of personnel scheduling, cleaning scheduling and purchasing serviceware.

**CA 122 FISH COOKERY (1-0-1)/F(S).** Affords students the opportunity to actually identify, store, rotate, issue and learn the disciplines that must be practiced to keep quality purchased fish, crustaceans and mollusks fresh. Students butcher fish, lobster, crabs, and practice the basic fundamentals of fish cookery. They also prepare stocks, soups and foundation sauces, and learn to highlight a variety of seasoned specialties.

**CA 123 COMMUNICATION SKILLS II (3-0-3)/F(S).** Study of terms, attributes, and the mechanics of language for logical thinking, speaking, and writing. Training includes an introduction to inference using both verbal and symbolic techniques. Industrial applications include organization and delivery of technical reports in written and oral forms, business correspondence, and resume preparation.

**CA 124 KITCHEN LABORATORY (2-2-2)/F(S).** This lab will be used for the following classes: CA 115, CA 116, CA 118, and CA 122.

**CA 126 HOSPITALITY PURCHASING (2-0-2)/F(S).** Management concepts and specific techniques in purchasing commodities essential to successful purchasing in hospitality operations.

**CA 127 AMERICAN REGIONAL A LA CARTE (1-2-2)/F(S).** This course explores the history and preparation of American specialties. Items prepared in the kitchen will follow established American cuisine preparation standards based on the region studies. Items served A La Carte on a daily basis.

**CA 207 WINE APPRECIATION (1-0-1)/F(S).** The wines of France, Italy, Germany, and America are discussed. Students learn through actual tasting of the wines studied. History, label interpretation, vocabulary, wine laws, and various methods of processing are covered in the lectures. Class conducted off campus. Majors only.

**CA 212 INTERNATIONAL AND ORIENTAL CUISINE (1-0-1)/F(S).** Students research and prepare menus representative of different countries and cultures. Cuisines emphasized are Middle Eastern, Spanish, South American, German and Austrian, Swiss, Scandinavian, Italian, Belgian, and Dutch. Students prepare several different menus based on actual Chinese (Szechwan, Cantonese, Peking, Hunan), Japanese and Polynesian recipes.
The program in Dental Assisting is accredited by the Commission on Dental Accreditation, upon completion of this course. Students are taught by dental assistant instructors and guest dental lecturers. Aptitude testing. Typing is a prerequisite. The dental assistant courses are part of the program and curriculum. Changes may be made at any time to take advantage of advances in the Dental profession. Entrance requirements: Council on Postsecondary Accreditation and the United States Department of Education. Works with the Dental Advisory Board in planning and promoting the program and curriculum. The student is required to develop and maintain the same standards and techniques used in firms or agencies that employ drafters and technicians.

**Dental Assistant—Nine Month Program**

Certificate of Completion

Instructors: Dr. Richard Gunnell, Bonnie Imbs, Jean Macinnis

The Dental Assisting Program consists of Dental Assistant Theory, Dental Laboratory instruction and Clinical Experience. Boise State University works with the Dental Advisory Board in planning and promoting the program and curriculum. Changes may be made at any time to take advantage of advances in the Dental profession. Entrance requirements: High School Diploma or Equivalency Certificate, personal interview and aptitude testing. Typing is a prerequisite. The dental assistant courses are taught by dental assistant instructors and guest dental lecturers. The program in Dental Assisting is accredited by the Commission on Dental Accreditation, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education. Students are eligible to take the Certification Examination upon completion of this course.

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<td>Dental Radiology DA 104</td>
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**Course Offerings**

See page 20 for definition of course numbering system

**DA DENTAL ASSISTING**

DA 101-102 DENTAL LABORATORY (2-10-4F/S). Provides practical laboratory experience in handling dental materials and instruments.

DA 104 DENTAL RADIOLOGY (3-5-4F). 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 (0-16-4S). Supervised chairside 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 (2-0-2). The class work deals with preventive dentistry and patient education.

DA 111, 112 COMMUNICATION SKILLS (3-0-3F/S). Enables the student to use our language effectively as a tool for logical thinking, problem solving, technical writing and speaking required in their major field of preparation.

DA 151-152 DENTAL THEORETICAL (6-6-0S). Lectures cover the basic dental sciences and dental specialties.

DA 262 OCCUPATIONAL RELATIONS (2-0-2). 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 ................................... 4
Applied Physics DT 141 .............................. 3
*Elective (General) ..................................... 3

**TOTAL** .............................................. 18

**SECOND SEMESTER**

Drafting Lab and Lecture DT 102 .................. 4
Communication Skills DT 112 ........................ 3
Introduction to Surveying DT 122 .................. 2
Mathematics DT 132 ................................. 3
Applied Physics DT 142 .............................. 3
Fundamentals of Computer Design DT 110 .......... 1

**TOTAL** .............................................. 16

**THIRD SEMESTER**

Drafting Lab and Lecture DT 201 .................. 4
Descriptive Geometry & Development DT 221 .......... 3
Applied Mathematics DT 231 ........................ 3
Statics DT 241 ......................................... 4
Graphics DT 261 ...................................... 1
Occupational Relations DT 262 ..................... 2

**TOTAL** .............................................. 17
FOURTH SEMESTER

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<td>Technical Report Writing DT 222</td>
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<td>Applied Mathematics DT 232</td>
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<tr>
<td>Specialized Graphics DT 263</td>
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<tr>
<td>Strength of Materials DT 242</td>
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<td>*Elective (General)</td>
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</table>

All courses require a minimum ‘C’ grade to receive the Associate’s Degree.

*Approved General Electives

- Introduction to Business GB 101 | 3
- Fundamentals of Speech Communication CM 111 | 3
- Listening CM 131 | 3
- Introduction to Sociology SO 101 | 3
- Principles of Economics-Micro EC 202 | 3

Course Offerings

See page 20 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 (1-1-1)(F/S)**
This course is an introduction to Computer-Aided Drafting and Design Systems. It will prepare students for keyboarding, to operate the systems and understand the applications of computer graphics to industry standards. Students will learn to use an interactive computer graphics system to prepare drawings on a CRT. They will store and retrieve drawings and related information on a magnetic disc and produce commercial quality copies using a computer-driven plotter. COREQ: Familiarity with basic drafting procedures and standards.

**DT 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, and business correspondence.

**DT 122 SURVEYING (2-2-2)(S)**
Introduction to surveying, methods and computations. Required field work with emphasis on compiling data and office computations. PREREQ: or COREQ: DT 132.

**DT 131 MATHEMATICS (4-1-4)(F/S)**
Fundamentals of algebra with review of arithmetic and applications of applied problems. Arithmetic operations with fractions, decimals, percentage. Basic algebraic operations with signed numbers, powers, solutions of simple equations, factoring operations with algebraic expressions. One year high school algebra with satisfactory grade or equivalent required.

**DT 132 MATHEMATICS (3-0-3)(F)**
Plane geometry, basic coordinate geometry, spatial geometry, and basic trigonometry. This course includes many applied problems, related to drafting technology. These problems require application of the fundamentals acquired in DT 131, trigonometry and geometry. PREREQ: DT 131 or equivalent.

**DT 141 APPLIED PHYSICS (3-0-3)(F)**
Course covers properties of solids, liquids and gases with emphasis on introduction to strength of materials. Also temperature and effects of heat, heat transfer and change of state of matter are covered. Emphasis placed on problem solving. One year high school algebra with satisfactory grade or equivalent.

**DT 142 APPLIED PHYSICS (3-6-3)(S)**
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 (1-14-1)(F)**
Civil drafting, mapping, highway curves and earthwork using conventional and computer drafting techniques. PREREQ: DT 122, 132, 102.

**DT 202 DRAFTING LABORATORY AND LECTURE (1-14-1)(S)**
Structural drafting terminology, structural and reinforcing steel specifications and drafting practice with manual and computerized methods. PREREQ: DT 201, 221.

**DT 221 DESCRIPTIVE GEOMETRY AND DEVELOPMENT (3-1-3)(F)**
Theory and practice of coordinate projection applied to the solution of properties of points, lines, planes and solids with practical drafting applications.

**DT 222 TECHNICAL REPORT WRITING (2-0-2)(S)**
Objective: to enable students to meet on-the-job standards of report preparation in the field of drafting.

**DT 231 APPLIED MATHEMATICS (3-1-3)(F)**
Solution of practical problems involving concepts from DT 131 and DT 132 Math. PREREQ: DT 132.

**DT 232 APPLIED MATHEMATICS (3-1-3)(S)**
Application and expansion of mathematics, statics and strength of materials. Related to lab projects. PREREQ: DT 231.

**DT 241 STATICS (4-4-4)(F)**
Introductory course in statics with emphasis on analysis of simple structures. PREREQ: DT 132.

**DT 242 STRENGTH OF MATERIALS (4-0-4)(S)**

**DT 261 GRAPHICS (1-1-1)(F)**
Introduction to graphic presentation methods used in industry, such as isometric and perspective rendering, charts, graphs and pictorial representations. (Open to non-drafting technology majors—space permitting.)

**DT 262 OCCUPATIONAL RELATIONS (2-0-2)(F)**
Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.

**DT 263 SPECIALIZED GRAPHICS (2-1-2)(S)**
An intensive study of perspective and rendering 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 McKie**

The Electrical Lineworker Program provides the student with the best and most complete basic preparation possible in overhead and underground construction and maintenance procedures. Centering around a basic program of performance based objectives, instructional materials and field experiences, the program provides the student with the necessary skills and knowledge needed as a firm foundation in this rapidly advancing field.

In the laboratory experience with equipment such as transformers, oil circuit breakers, switches, materials and pole line hardware, hot line tools, test equipment, bucket truck, line truck, 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 the 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**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Fall</th>
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<tbody>
<tr>
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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 20 for definition of course numbering system

**EL ELECTRICAL LINEWORKER**

**EL 101-102 ELECTRICAL LINEWORKER LABORATORY (0-20-5)(F/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 parachute climbing, pole setting and maintenance of underground distribution networks, troubleshooting all systems including hot stick care and use, plus preventative maintenance on associate systems or equipment.

**EL 151-152 ELECTRICAL LINEWORKER BASICS (5-0-5)(F/S)**
This course provides the student with the basics of electrical theory, power generation, materials identification and application, overcurrent and protective devices, related equipment application, and personal/occupational safety.

**EL 161-162 ELECTRICAL LINEWORKER SYSTEMS DESIGN/CONSTRUCTION (5-0-5)(F/S)**
This course emphasizes electrical power systems, power systems design and construction techniques, transformer theory, design of transformers and their construction and transmission networks.

157
School of Vocational Technical Education

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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<tr>
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<td>English Composition E 101</td>
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<td>Electronics Theory ES 122</td>
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<tr>
<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>Digital Systems I ES 163</td>
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<td>Linear Systems I ES 172</td>
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<td>Linear Systems I Lab ES 173</td>
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<td>Applied Math ES 182</td>
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SOPHOMORE YEAR

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Course Offerings

See page 20 for definition of course numbering system

ES—ELECTRONICS SERVICE TECHNOLOGY


ES 122 ELECTRONIC THEORY (3-0-3)(F/S). Theory of direct and alternating currents in passive circuits. Circuit analysis of RLC 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, algebraic and algebraic equations, exponential and logarithmic equations, vectors and graphing.

ES 163 DIGITAL SYSTEMS I (2-0-2)(F/S). Basic TTL and MOS gate operations, combinational logic circuits, Boolean Algebra, fan-out specifications, propagation delay and operating speed, basic sequential logic operations, S-R and J-K flip flop fundamentals. PREREQ: ES 123.


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 281 and ES 232. Lab will stress hands-on exposure to circuits and equipment and will provide various troubleshooting techniques to be used in equipment repair.


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 OFFERINGS

The following Extended Programs offerings are not required in the Electronic Service Technology AAS degree program. These courses are designed for upgrading of individuals employed in the Electronic Service Industry. PREREQ: Minimum of two years employment as an Electronic Service Technician, or PERM/INST.

Course Offerings

ES 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. Transformation of 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.

Electronics Technology—
Two Year Program

Associate of Applied Science Degree
Instructors: Doug Carlton, Jeff Chance, Bob Dodson, Stan Sluder, James Stack

The Electronics Technology Program prepares students as entry level electronic engineering technicians. These individuals may desire employment leading to work as team members associated with engineers, scientists, or manufacturing specialists involved in electronic work.

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-I ET 131-132</td>
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<td>Basic Physical Science ET 142</td>
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<td>Electronic Theory ET 151-152</td>
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<td>Intro to Digital Electronics ET 161</td>
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<td>Digital Systems I ET 162</td>
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<td>Solid State Devices I ET 172</td>
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Total Number of Credit Hours: 71
**Note:** Some courses are offered on a pass/fail basis as designated above.

SOPHOMORE YEAR

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<td>Instrumentation ET 241</td>
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<td>Occupational Relations ET 262</td>
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Total Number of Credit Hours: 71

SECOND YEAR

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<td>Technical Report Writing ET 113</td>
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<td>Intro to Solid State Physics ET 291</td>
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<td>Solid State Device Physics ET 292</td>
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</table>

Total Number of Credit Hours: 69

Course Offerings

See page 20 for definition of course numbering system

ET ELECTRONIC TECHNOLOGY

ET 101 ELECTRONICS LABORATORY I (0-10-20/F).S. Experiments in direct current electronics. Study of resistance, dc circuit behavior, dc applications of capacitors and inductors, dc operation of transistor circuits, and characteristics of dc test equipment.

ET 102 ELECTRONICS LABORATORY II (0-5-10/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 (3-4-3/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 (1-4-20/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 (3-3-3/F).S. The number system, algebra and algebraic equations, functions, and the graphing of functions, exponential and logarithmic equations, and plane geometry and trigonometry.

ET 132 ELECTRONICS MATHEMATICS II (3-3-3/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 (3-4-3/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 (4-1-40/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 (4-1-40/F).S. Theory of alternating current electricity, its behavior in electric circuits, properties of reactance and impedance, ac circuit analysis, tuned circuits and resonance, mutual inductance and transformers. PREREQ: ET 151.

ET 161 INTRODUCTION TO DIGITAL ELECTRONICS (2-0-20/F).S. Introduction to binary number system, Boolean functions and mathematics, basic logic gates and logic families, Karnaugh mapping and Boolean simplification of logic functions.


ET 163 DIGITAL SYSTEMS LAB I (0-4-10/F).S. Laboratory exercises to complement ET 162. See ET 162 course description. PREREQ: ET 161.


ET 173 SOLID STATE DEVICES LAB I (0-4-10/F).S. Laboratory exercises to complement ET 172. Diode rectification circuits, transistor biasing and amplifying circuits. Class A, AB, B, and C amplifier circuits, troubleshooting of diode and transistor circuits.

Semiconductor Technology—
Two Year Program

Associate of Applied Science Degree

The successful completion of ET 131-132 or M-111, or the equivalent is prerequisite for this major.

FIRST YEAR

<table>
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1st Year summary: 39 credits

**The electives shall be selected from the areas of Business, Economics, and/or Human Relations.**

School of Vocational Technical Education

159
School of Vocational Technical Education

ET 181 INTRODUCTION TO INTEGRATED CIRCUIT INDUSTRY (2-0-2R). 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 (2-0-2R). 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 the operations, processing and modeling will be discussed. PREREQ: ET 131-132 or M 111 or the equivalent.

ET 183 INTEGRATED CIRCUIT PROCESSING I (2-0-2S). A descriptive treatment, in some chemical and mathematical detail, of the processes used to manufacture integrated circuits. PREREQ: ET 181, 182.

ET 201 LINEAR SYSTEMS LAB (0-5-1)(F/S). Laboratory exercises to complement ET 251. Linear amplification and signal processing circuits including integrators, differentiators, active filters, oscillators, comparators, differential amplifiers, and specialized non-linear amplifiers. PREREQ: ET 152, ET 172.

ET 202 TELECOMMUNICATIONS LAB (0-5-1)(F/S). 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 (3-2-3F). Linear circuit processing. Operational amplifier circuits, comparators, oscillators, logarithmic amplification, active signal filtering, operational amplifier power supply considerations. PREREQ: ET 152.


ET 262 OCCUPATIONAL RELATIONS (3-0-3F). 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 (0-4-1F). Laboratory exercises to complement ET 264. See ET 264 course description. PREREQ: ET 132.

ET 273 SOLID STATE DEVICES II (2-0-2F). Study of solid state devices including silicon controlled rectifiers, tunnel diodes, optoelectronic devices, power FET devices, and solid state transducers. PREREQ: ET 172.

ET 274 SOLID STATE DEVICES LAB II (0-4-1F). Laboratory exercises to complement ET 273. Study of characteristics of SCR devices, photodiodes and photo-transistors, light emitting diodes, laser diodes, LASER devices, power field effect transistors, solid state temperature sensors and strain gauges. PREREQ: ET 172.


ET 276 DIGITAL SYSTEMS LAB III (0-5-1F). Laboratory exercises to complement ET 275. See ET 275 course description. PREREQ: ET 264.


ET 278 MICROPROCESSOR SYSTEMS LAB (0-5-1F). Laboratory exercises to complement ET 277. See ET 277 course description. PREREQ: ET 264.

ET 281 INTEGRATED CIRCUIT LAYOUT (2-0-2S). Lecture and drafting techniques used in the design of integrated circuit photolithographic masks. Focus to be on N/A MOS silicon gate memory devices. PREREQ: ET 183.

ET 291 INTRODUCTION TO SOLID STATE PHYSICS (3-0-3S). A study of the interaction of wave phenomena (electromagnetic radiation, lattice vibration, and electrons) with the lattice in a solid. Attention is focused on 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 (3-0-3S). 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
First Aid FR 103 ........................................ 1
Fundamentals of Fire Service FR 104 .................. 4
Fire Stream, Hydraulics FR 106 ........................... 2
Ropes, Knots, and Rescue FR 107 ....................... 1
Breathing Apparatus FR 109 .............................. 3
Hose Techniques FR 110 ................................ 3
Ladders Techniques FR 111 ................................ 2
Building Construction FR 112 .......................... 2
Ventilation FR 113 ........................................ 1
Salvage and Overhaul FR 114 ............................ 1
Skills Maintenance FR 115 ................................ 2
Ground Cover FR 116 .................................... 4
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
Portable Fire and installed detection alarm and .......................... 1
Extinguishing systems/agents FR 203 .................. 2
Hazardous materials Incident Analysis FR 204 ..... 2
Fire Risk Analysis FR 205 ................................ 2
Fire Service and the Law FR 206 ........................ 2
High Rise FR 207 ........................................ 1
Industrial Fire Protection FR 208 ....................... 1
Aircraft Fire Protection FR 209 ........................ 1
Cooperative Voc Ed (on-the-job training) FR 210 .... 10
*Approved Electives ..................................... 9

*Students must complete 270 instructional hours of approved coursework (in addition to those prescribed in the certification program) which may include any National Fire Academy resident or field programs described in the current Fire Service Training Program Catalog and/or any combination of state or federally sponsored fire classes, courses or schools—except those already used for credit toward completion of previous courses in the certification program. Students may use courses that they have attended prior to or any time during enrollment in the certification program. Copies of all course certificates must be on file at the fire department.

Course Offerings

See page 20 for definition of course numbering system

FR FIRE SERVICE TECHNOLOGY

FR 101 ORIENTATION FIRE SERVICE TRAINING (2-0-2). The purpose, objectives, and scope of Idaho's Certification program is covered in this course: organization charts; primary functions of state and national fire service organizations;
School of Vocational Technical Education

local department public relations programs; and the cleaning, maintenance, costs and degree of protection of the fire fighters protective clothing and other equipment is a part of the instruction received in this course. In addition, issues involved in 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, 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 related to fire science. In addition, 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, reading and recording 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 operation 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 backboards and stretchers, 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 from the self-contained breathing equipment covered in this course. Many exercises in this course emphasize practical use of the equipment in a variety of simulated fire ground situations. PREREQ: PERM/INST.

FR 110 HOSE TECHNIQUES (0-8-2). All types, sizes, and uses of hoses are covered in this course including the use of nozzles—their attachment to hoses and the advancing of charged and dry lines. Inspection, maintenance, cleaning, rolling, and carrying of hose are other topics of instruction within the course. PREREQ: PERM/INST.

FR 111 LADDER TECHNIQUES (0-4-1). All types of ladders used in the fire service, their parts and their uses will be covered in this course. Ladder raises, ladder carries, materials used in ladder construction, ladder inspection, 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 in "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 and clearing proper ventilation methods, and protection of backdraft and safety precautions to be taken during ventilation. PREREQ: PERM/INST.

FR 114 SALVAGE AND OVERHAUL (0-4-1). This course will demonstrate the construction and use of a water chute and a water catchall, explain different methods of routing water and removing debris from a structure, demonstrate proper methods for folding and spreading salvage covers, explain main reasons for salvage and overhaul operations and precautions to be taken during them towards the prevention of evidence destruction. PREREQ: PERM/INST.

FR 115 SKILLS MAINTENANCE (0-8-2). This course is designed to assist students in maintaining proficiency in practical skills that were learned during course work in the fire service, and is designed to review 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, fire suppression methods, water supply and use, and personnel safety. PREREQ: PERM/INST.

FR 117 FIRE APPARATUS (0-4-1). This course is designed to provide the student with knowledge of the following as they relate to fire apparatus practices: types of fire apparatus, the driver and the apparatus, driving exercises, positioning and spotting apparatus, operating fire department pupmers, operating aerial ladder apparatus, operating pumpers, fire extinguishing apparatus, maintenance schedules, and testing apparatus. PREREQ: PERM/INST.

FR 121 APPLIED COMMUNICATIONS (3-9-3). This course is taught in conjunction with the orientation and fire cause determination courses. The student demonstrates the ability to organize ideas, interpret facts, assimilate thoughts and ideas and effectively communicate this knowledge in proper written form by responding in depth to essay questions regarding such topics as: Successful Fire Service Leadership; Focusing on Fire Education and Professional Development in the Fire Service. PREREQ: PERM/INST.

FR 122 TECHNICAL WRITING/COMMUNICATIONS (3-0-3). This course is taught in conjunction with Fire Risk Analysis, fire ground management and hazardous materials. The student learns proper writing techniques for preparing pre-fire plans and reports for a wide variety of structures and occupancies as part of fire risk analysis. PREREQ: PERM/INST.

FR 131 HUMAN RELATIONS/SUPERVISION (3-0-3). In this course the student learns about human relations as they apply to: strike team interactions; Incident Command System Camp organization and unit of operation relationships; management span-of-control; organization functions and structure; and principles of command. PREREQ: PERM/INST.

FR 132 INDUSTRIAL RELATIONS (3-0-3). In this course the student learns the importance and effective techniques of public relations and education in the field of fire prevention. Discussed in depth are: fire prevention public relations programs; promotional activities, industrial or functional activities; public relations while making inspections; the position of the inspector and the 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 situation is the main subject of this course, dealing with the specific performances of sizing up, positioning of vehicle equipment and personnel, directing attack, laying out 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 drypipe systems. It will also contain instruction in the operation and extinguishing principle for carbon dioxide, halogenated agent, dry- and wet chemical and foam extinguishing systems. Water flow alarms, alarm test valves, infrared flame, detection devices, smoke detectors, and the servicing, recharging, testing, and maintenance of extinguishers are also topics of instruction within this course. PREREQ: PERM/INST.

FR 204 HAZARDOUS MATERIALS INCIDENT ANALYSIS (2-0-2). This course is designed to give the fire fighter student information on target hazards, configuration, local disaster plans and the process of locating and notifying agencies on the disaster preparedness directory. The fire department's participation in the following disasters will also be covered: train derailment, building collapse, hazardous chemical/material exposure, major highway accident, aircraft accident, earthquake, fuel spill, forest fires, flood and riots. PREREQ: PERM/INST.

FR 205 FIRE RISK ANALYSIS (2-0-2). This course is designed to provide the student with the skills necessary to do a systematic risk analysis of a community and identification of problem solving methods. It takes the fire protection analysis as a total system and provides methods to identify and estimate a community's risk level and level of protection. PREREQ: PERM/INST.

FR 206 FIRE SERVICE AND THE LAW (2-0-2). This course will cover the application of statutory, common and constitutional law of the fire fighter, organization of the local governing body, responsibilities and liabilities on the part of the fire fighter, the department and municipalities. It will also explain the fire fighter's right to compensation, rules governing the employment and termination of the fire fighter, a fire fighter's right to make arrests, etc. PREREQ: PERM/INST.
FR 207 HIGH RISE (1-6-1). This course is designed to provide the student with knowledge of the following as they relate to high rise fire fighting: improve problems in high rise buildings; heat, smoke and fire gases; life hazards; exposure problem; water supplies; access problems; logistics problems; coordination problems; salvage and overhaul; loss of electrical power; smoke proof stairways and special problems. PREREQ: PERM/INST.

FR 208 INDUSTRIAL FIRE PROTECTION (1-0-1). This course is designed to provide the student with knowledge of the following as they relate to industrial fire protection: the need for plant fire protection, emergency planning, cooperation and coordination with outside agencies, plant fire prevention, plant fire brigades, managing fire brigades training problems, fire brigade training, fire protection system, and inspection and testing fire protection systems. PREREQ: PERM/INST.

FR 209 AIRCRAFT FIRE PROTECTION (1-0-1). This course will cover fire service equipment applicable to aircraft fires, methods of water application, chemical application, and size of fire hose nozzle patterns for use on aircraft fire. Other topics of instruction in this course include the methods of extinguishing and the hazards of magnesium and titanium fires, hazards presented by aircraft jet engine intake and exhaust systems; aircraft escape systems, and emergency incidents involving nuclear weapons or materials. PREREQ: PERM/INST.

FR 210 COOPERATIVE VOCATIONAL EDUCATION (on-the-job training)(0-40-10). A maximum of 10 credits will be awarded for supervised on-the-job training, upon completion of all course work. The on-the-job training consists of the practical application of the principles and practices taught in the prescribed courses. The credits will be granted upon written recommendation of the instructor of record and the local Fire Chief. PREREQ: PERM/INST.

Heavy Duty Mechanics—Diesel—Eleven Month Program
Certificate of Completion
Instructors: Ted Brownfield, Ken Hogue
This program is designed to prepare students for entry-level employment in the heavy mechanics field. Instruction will include the basics in design and fundamentals of operation of gasoline and diesel engines, heavy duty trucks, equipment and component parts. Instruction will be on mock-ups and actual working units.

SUBJECTS

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<tr>
<th>Subjects</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tr>
<td>First Eight Week Block</td>
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<td>Introduction to Engines DM 106</td>
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<td>Engine Component Systems DM 107</td>
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<td>Diesel Fuel Systems DM 108</td>
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<td>Clutches and Transmissions DM 110</td>
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<td>Power Take-off &amp; Drive Lines DM 111</td>
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<td>Differential, Power Dividers, Final Drive and Planetary Systems DM 112</td>
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<td>Batteries, Switches, Relays and Solenoids DM 114</td>
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<td>Fourth eight week block</td>
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<td>Engine Brakes DM 119</td>
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<td>Occupational Relations DM 262</td>
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<td>Project Lab/Lecture DM 120</td>
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Course Offerings

See page 20 for definition of course numbering system

DM HEAVY DUTY MECHANICS—DIESEL

DM 106 INTRODUCTION TO ENGINES (2-10-3)(F). Theory and principles of operation. Engine disassembly and assembly procedures including component identification and function, use of measuring instruments for precision parts measuring.

DM 107 ENGINE COMPONENT SYSTEMS (2-5-2)(F). Intake and exhaust systems, lubrication systems, cooling systems, reconditioning cylinder heads and valve trains, turbo chargers, and super chargers.

DM 108 DIESEL FUEL SYSTEMS (2-5-2)(F). This course covers the five major types of diesel fuel injection pumps, injection nozzle rebuild and testing procedures, carburetors, fuel filters, fuel lines, and fuel transfer pumps.

Total 8 credits for this block—repeated in Fall Semester.

DM 109 BASIC HEAVY EQUIPMENT WELDING (1-1-1)(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 (2-5-2)(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 (1-3-1)(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 (2-4-2)(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 (2-7-2)(S). Basic electricity and magnetism theory with electrical circuits and test equipment procedures and circuit testing with multimeter.

DM 114 BATTERIES, SWITCHES, RELAYS AND SOLENOIDS (2-7-2)(S). Introduction to batteries, switches, relays and solenoids, starter and charging systems used in electrical circuits of heavy duty equipment.

DM 115 BASIC HYDRAULICS (2-4-2)(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 adjustors, 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 C brake components and operation, 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)(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.

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.
School of Vocational Technical Education

Course Offerings

See page 20 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 include: exploring and identifying 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 and spraying.

HO 111-112 COMMUNICATION SKILLS (3-0-3)(F). 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 scientific principles utilized in plant identification, plant growth, classification and growth, climate and other growth-limiting factors, soil and soil amendments. Second semester—developing comprehension, analysis and evaluation of: plant identification, plant propagation, growing containers; insect and disease control; pesticide application; and pruning practices.

HO 201 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.

Industorial Environmental Technician Program

Associate of Applied Science

This double major option combines the Industrial Mechanics/Automation and Refrigeration, Heating and Air Conditioning curriculums. The required general education coursework for the AAS degree are 6 credits in Communications and 6 credits from the areas of Economics, and/or Human Relations. Successful candidates will control the environment in a variety of industrial settings ranging from light manufacturing or business to heavy industrial settings.

Detailed course descriptions for Industrial Mechanics/Automation and Refrigeration, Heating and Air Conditioning can be found in the present Boise State University catalog.

The Certificate of Completion that is available for each respective program is retained. The AAS Degree program is an option beyond the Certificate of Completion level.

SUBJECTS

Air Conditioning Lab RH 121-122
Air Conditioning Theory RH 141-142
*Occupational Relations RH 262

Maintenance Welding Tech IM 101
Maintenance Machine Fund IM 102
Electro-Mechanical Systems IM 110-111
Basic Fluid Power Operations IM 121-122
Industrial Mechanical Laboratory IM 131-132
Industrial Technology Communications IM 162
*Occupational Relations IM 262

TOTAL

15
12

16
16

1ST 2ND

SEM SEM

Fall Spring

16 10

3 2

5 10

3 3

2 5

2 2

3 3

5 5

6

16

TOTAL

16

16

IM 262 OR RH 262 required for AAS Degree.

Industrial Mechanics/Automation—Nine Month Program

Certificate of Completion

Instructor: Bob Allen

The Industrial Mechanics/Automation Program is designed to prepare technicians with entry level skills relevant to increasingly complex automated industrial environments. Emphasis is 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.

SUBJECTS:

Maintenance Welding Technology IM 101
Maintenance Machine Fundamentals IM 102
Electro-Mechanical Systems IM 110-111
Basic Fluid Power Operations IM 121-122
Industrial Mechanical Laboratory IM 131-132
Industrial Technology Communications IM 162
Occupational Relations IM 262

TOTAL

16

16

IM 101 MAINTENANCE WELDING TECHNOLOGY (3-0-3). 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.

Course Offerings

See page 20 for definition of course numbering system

IM INDUSTRIAL MECHANICS

IM 101 MAINTENANCE WELDING TECHNOLOGY (3-0-3).
IM 102 MAINTENANCE MACHINE FUNDAMENTALS (3-0-3)S. This course combines use of basic hand tools with selected machine tools (lathe, milling machine, drill press, shaper, pipe/bolt machine) as are required to effectively service or repair increasingly sophisticated industrial devices. Preventive maintenance techniques utilizing this equipment are covered.

IM 110-111 ELECTRO-MECHANICAL SYSTEMS (3-0-3)FS. 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)FS. 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, hydrotstats, and accessories.

IM 131-132 INDUSTRIAL MECHANICAL LABORATORY (0-20-3)FS. 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 CVII System. Demonstrations of programming and operating techniques are given the student for controlling communicating with automated production equipment.

IM 262 OCCUPATIONAL RELATIONS (2-0-2)S. Course is designed to enable a student to become skilled in dealing effectively with people in an industrial environment. Communication and writing skills for applying for, obtaining, retaining and advancing in employment are offered.

Machine Shop—Two Year Program

Associate of Applied Science Degree
Instructors: Gus Glassen, Don Wertman

Boise State University offers a specialized Machine Shop program for students desiring to become machine tool operators. Students receive instruction in the set-up and use of all basic machines including engine lathes, milling machines, grinders, surface grinders, computer numerical control machines and bench work connected with them. Students will also learn about the many different materials and processes used in the machine shop. They will receive classroom instruction and practical experience in the use of various precision measurement and test equipment being used by metals manufacturing industries.

Students who choose not to take CM-111 and two approved electives will receive a Diploma in Machine Shop.

Course Offerings

See page 20 for definition of course numbering system

MS MACHINE SHOP

MS 101-102 MACHINE SHOP LABORATORY (2-18-6)FS. 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 life-long learning, on awareness of self, communicative relationships and written communications.

MS 124-125 RELATED BLUEPRINT READING (2-0-2)F, (4-0-4)S. 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 better understand the techniques used in the 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)FS. 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 surface grinders, mills, lathes, CNC, drill presses, other machine tools, layout and inspection.

MS 201-202 ADVANCED MACHINE SHOP LABORATORY (2-18-6)FS. The set-up and operation involving manipulative development and increased skill in the use of lathes, milling machines, drill presses, power saws, tools and cutter grinder, surface grinder, 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 (2-0-2)FS. Three dimensional drawing and hand sketching of C.N.C. prints as applied to the machinist trade. The course also includes designs of fixtures, jigs and tools used in the machinist trade. PREREQ: MS 125.

MS 231-232 ADVANCED MATH (6-6-6)FS. 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 (2-0-2)FS. 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 requirements, focuses on job seeking skills, employer and employee relations, social security and workmen's compensation laws, CPR, and first aid skills.

Manufacturing Technology—Two Year Program

Associate of Applied Science Degree

The Manufacturing Technology Program is designed to prepare entry level technicians to plan, organize and control manufacturing processes. Graduates from this program will be prepared to participate in a modern manufacturing environment with a technical understanding of how each particular function integrates into a complete manufacturing system. In addition they will be prepared to analyze and work to improve the three common elements of production manufacturing, which are employees, materials and machines.
Course Offerings

See page 20 for definition of course numbering system.

MN MANUFACTURING TECHNOLOGY

MN 100 MATERIAL AND PROCESS MANUFACTURING (2-0-2/F&S). A lecture, visual aid presentation overviewing the production and general properties of common engineering materials such as iron, steel, zinc, copper, aluminum and plastics; the fundamentals of material processing such as powder metallurgy, hot and cold forming and shearing; and the basic surface protection processes such as cleaning, painting and plating.

MN 112 INDUSTRIAL SAFETY (2-0-2/F&S). Federal, state and local safety codes applying to materials, material handling and equipment.

MN 121 AC/DC THEORY (1-4-2/F&S). Terminology and fundamentals of direct and alternating currents as applied to the manufacturing environment. Practical application and skills in wiring methods and control circuits.

MN 122 WELDING PROCESSES (2-4-3/F&S). Oxy/acetylene welding, cutting and metallic shielded arc welding. Lecture and demonstrations in gas tungsten arc, gas metal arc, plasma arc welding/cutting and robotic welding. Weldability of metals and welding metallurgy.

MN 141 INTRODUCTION TO MACHINING PROCESSES I (2-4-3/F&S). This sequence covers safety, shop practice and production rates. Also included are the set-up and operation of the lathes, milling machines, drill presses, power saws and grinders.

MN 180 ADVANCED MACHINING PROCESSES II (1-8-4/F&S). This sequence covers the use of special attachments, bench work, layout, heat treating, hardness testing, layout inspection, and computer numerical control mill set-up, operation and programming. PREREQ: MN 141 or equivalent.

MN 201 QUALITY ASSURANCE & STATISTICAL PROCESS CONTROL (4-0-4/F&S). The statistical requirements necessary to control the processes of a modern manufacturing line will be covered. PREREQ: DT 132 or equivalent.

MN 202 MANUFACTURING PLANNING & FACILITY DESIGN/MODIFICATION (2-4-3/F&S). Techniques of planning and procedures of manufacturing, with the goal of becoming more productive and competitive. Planning and procedures include plant layout, conventional and automated materials handling, materials requirement planning, flexible manufacturing, standardization, and inventory and warehousing planning.

MN 211 ROBOTICS & AUTOMATED MACHINE TOOL PROGRAMMING (1-4-2/F&S). An introduction to laboratory robotics in manufacturing. Includes definitions and classifications of robots, limitations and justifications of robots, and social implications of robotics as applied to manufacturing.

MN 212 COMPUTER AIDED DRAFTING/COMPUTER AIDED MANUFACTURING (2-4-3/F&S). Writing computer numerical control (CNC) machine tool programs using computer-assisted techniques to generate machine firmware, set up and operation, development of tooling concepts, preset cutting tooling, machine methods, definition of part geometry, writing of tool motion statements, use of the computer to process program inputs, analysis, and debugging of computer outputs to develop a functional program.

MN 222 ELECTRICAL/ELECTRONICS DRAFTING (1-8-3/F&S). Mechanical and Computer Assisted Drafting (CAD) techniques and standards for developing electrical and electronic schematic, diagrams, and drawings.

MN 231 UNIFIED TECHNICAL CONCEPTS PHYSICS (3-4-0/F&S). The study of technical principles in such a manner as to make them readily understood and applicable in different technologies—that include electrical, mechanical, fluidal, and thermal systems, and combinations thereof. This course blends the useful technical principles with laboratory practice on realistic devices that are commonly utilized by technicians in process manufacturing/technology.

PREREQ: DT 132 or equivalent.


Marketing—Mid-Management—Two Year Program

Associate of Science Degree

Instructors: Richard Lane, Duston Scudder

FRESHMAN YEAR

1st SEM 2nd SEM

English Composition E 101-102 .................................................. 3 3
Intro to Business GB 202 .................................................. 3 -
Math or Information-Decision Science Elective .............................. - 4
Salesmanship MM 101 .................................................. 3 -
Introduction to Financial Accounting AC 205 ............................... - 3
Principles of Economics-Macro EC 201 .................................... - 3
Mid-Management Practicum MM 100 ..................................... 2 2
Elements of Management MM 105 ......................................... 3 -
Fundamentals of Speech Comm CM 111 .................................. 3 -
TOTAL .......................................................... 17 15

SOPHOMORE YEAR

Customer Marketing MM 201 .................................................. 3 -
Principles of Economics-Micro EC 202 ..................................... 3 -
Principles of Advertising MM 203 ........................................... 3 -
Report Writing MM 209 .................................................. 3 -
Intro Microcomputer Appl in Retailing MM 250 .......................... 3 -
Retail Merchandising MM 204 ............................................. 3 -
General Psychology P 101 .................................................. 3 -
Mid-Management Practicum MM 100 ..................................... 2 2
Electives .......................................................... 2 5
TOTAL .......................................................... 16 16

NOTE: The Marketing—Mid-Management program is also listed in this Catalog in the College of Business section.

Practical Nursing—Eleven Month Program

Certificate of Completion

Instructors: Melanie Baichtal, Leanne Bowman, Noreen Heist, Cathy Hoyem, Donna McColloch, Mary Towle

The Practical Nursing Program, in cooperation with five hospitals, two long term care facilities and the State Board for Vocational Education, is approximately 11 months in length and consists of hospital and long term care nursing experiences and classroom instruction. A certificate is awarded upon graduation from the course. Students are then eligible to take the state licensing examination, which, if passed, qualifies them to practice as licensed practical nurses. The program is approved by the Idaho State Board of Nursing.

Classroom work includes instruction in the needs of individuals in health and in sickness, with emphasis on the practical nurses’ role in meeting these needs. Clinical experience consists of supervised hospital nursing experience in caring for patients with medically and surgically treated conditions, the care of sick children, new mothers and infants, rehabilitation and removatation techniques in the care of the aged and long-term patient. Failure to meet requirements in either theory or clinical areas may result in termination from the program.

Admission Requirements: High school graduate or pass the General Educational Development Test. Satisfactory scores on the pre-entrance test, which is given by Boise State University. A complete medical examination is required. The applicant will be interviewed by a committee. Thirty students will be selected for the Boise program, which begins in January; ten students will be selected for the Nampa program, and ten students will be selected for the Caldwell program, which begin in September.

The courses will be offered at various times during the eleven months depending upon the admission date and the availability of clinical experiences. This curriculum meets the requirements for hours and content for the Idaho State Board of Nursing.

A student must complete the following requirements to graduate from the program:

- Professional Concepts PN 101 .................................................. 1
- Principles of Anatomy and Physiology for Prac Nurs 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.................................1
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.................................1
Maternal and Infant Health PN 124.................................2
Pediatric Nursing PN 125.................................2
Mental Health and Mental Illness PN 126.................................2
Intro Comp Appl Occup Relat PN 180.................................1
TOTAL 58

Course Offerings

See page 20 for definition of course numbering system

Computerized professional nurse education program.

PN PRACTICAL NURSING

PN 101 PROFESSIONAL CONCEPTS (1-0-1)(F/S). Topics of study for Practical Nursing Professional Concepts will include role of the Practical Nurse, legal and ethical aspects and historical development of the field.

PN 102 ANATOMY AND PHYSIOLOGY FOR PRACTICAL NURSING (4-0-4). A study of the normal structure and function of the body cells, tissues, organs and systems, including the interrelationship of body systems.

PN 104 MEDICAL-SURGICAL NURSING CLINICAL (0-28-7). Clinical experience for PN 121-122.

PN 105 NUTRITION AND DIET THERAPY (2-0-2). An introduction to nutrition and identification of body nutritional needs in health and illness, including the study of diet therapy.

PN 106 EMERGENCY NURSING CONCEPTS (2-0-2). A study of assessment and immediate and temporary treatment of persons involved in accidents or other emergency situations.

PN 107 PHARMACOLOGY FOR PRACTICAL NURSING (3-0-3). A study of drug classification, modes of administration and principles of mathematics essential to drug administration.

PN 108 PHARMACOLOGY CLINICAL (0-4-1). Clinical experience for PN 107.

PN 109 GERIATRIC NURSING (1-0-1). A study of the health needs and problems particular to the elderly patient.

PN 110 GERIATRIC CLINICAL (0-4-0). Clinical experience for PN 109. PREREQ: PN 109.

PN 112 MATERNAL AND INFANT CLINICAL (0-4-1). Clinical experience for PN 124. PREREQ: PN 124.

PN 113 PEDIATRIC CLINICAL (0-4-0). Clinical experience for PN 125. PREREQ: PN 125.

PN 114 FUNDAMENTALS OF NURSING (3-4-5). The student will develop skills in activities and procedures basic to patient care and includes medical terminology.

PN 115 CLINICAL FOUNDATIONS (0-12-3). Clinical experience for PN 114. PREREQ: PN 114.

PN 118 PRACTICAL NURSING SPECIAL THEORY (V-V-V to 10). Designed to provide the opportunity for specific training in a clinical setting. The topic offered will be selected on the basis of an evaluation of needs of the individual. PREREQ: PERM/DEPT.

PN 119 PRACTICAL NURSING SPECIAL CLINICAL (V-V-V to 10). Designed to provide the opportunity for specific clinical experience. The topic offered will be selected on the basis of an evaluation of needs of the individual. PREREQ: PERM/DEPT.

PN 120 COMMUNITY HEALTH AND MICROBIOLOGY (1-0-1). A study of the health needs of the individual, the family, the community and microbiology.

PN 121 MEDICAL AND SURGICAL NURSING I (8-0-8). A study of diseases and disorders of the body systems including planning, implementation and evaluation of nursing care.

PN 122 MEDICAL AND SURGICAL NURSING II (7-0-7). Continuation of the study of body systems and nursing care. PREREQ: PN 121.

PN 123 GROWTH AND DEVELOPMENT (1-0-1). 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.

PN 180 INTRO COMPUTER APPLICATION TO OCCUPATIONAL RELATIONS (4-0-1)(F/S). A study of job seeking skills, written communication and hands-on use of computer technology to complete personal data packet.

Professional Truck Driving Program—Ten Week Program

Certificate of Completion
Instructor: Bob Castleberry

The Professional Truck Driving Program curriculum is designed to provide the students with the necessary skills and background for employment as an over-the-road entry level driver. This program is 10 weeks in length, 40 hours per week. Initially controlled driving will take place in non-traffical areas and advance 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, docking, trailer combinations and their uses. Ample time will be given to familiarize the student with the problems of negotiating large rigs in traffic and on the highway. DOT 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 driver's record 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 20 for definition of course numbering system

TD 100 BASIC OPERATION (3-0-3). This course includes orientation to the program, introduces students to control systems, vehicle inspection, basic vehicle 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 (3-4-4). This course includes classroom and lab instruction on the function and operation of 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, documentation, service requirements including permissible hours of duty, log keeping, accident procedures, personal health and safety, trip planning, public and employee relations.

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 and residential 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>
</tr>
</thead>
<tbody>
<tr>
<td>Air Conditioning Lab RH 121-122</td>
<td>5</td>
</tr>
<tr>
<td>Air Conditioning Theory RH 141-142</td>
<td>10</td>
</tr>
<tr>
<td>Occupational Relationships RH 262</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>17</td>
</tr>
</tbody>
</table>

**Course Offerings**

See page 20 for definition of course numbering system

**RH AIR CONDITIONING, REFRIGERATION AND HEATING**

**RH 121-122 AIR CONDITIONING, REFRIGERATION AND HEATING LABORATORY (0-20-5)(S).** These courses provide the laboratory application of principles covered in the theory class. Skills will be developed and practice will be provided which will be needed by the service person. Different phases of air conditioning, refrigeration and heating will be covered.

**RH 141-142 AIR CONDITIONING, REFRIGERATION AND HEATING THEORY (10-0-10)(F/S).** This sequence of courses provides a basic understanding of the equipment and tools used on commercial and residential refrigeration, heating and air conditioning equipment including heat pumps. Emphasis is on causes of break downs and the making of necessary repairs. Test equipment is used in the inspection of components such as relays, thermostats, motors, refrigerant lines, compressors, evaporators, condensers, oil and gas heating equipment, metering devices and electrical circuitry.

**RH 262 OCCUPATIONAL RELATIONS (0-0-2)(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. It also helps students deal with stress and become more efficient in time management.

**Respiratory Therapy Technician**

Certificate of Completion

Instructors: David Nuerenberg, Dr. Charles Reed, Denise Voigt, Barbara Wixom

The Respiratory Therapy Technician program is designed to provide students with the necessary theory and skills to become employed as a Respiratory Therapy Technician upon graduation and be eligible to write the Certified Respiratory Therapy Technician National Examination. The program includes the study of anatomy, physiology, microbiology, pharmacology, pathology and specialized subjects related to respiratory therapy.

Clinical experience consists of supervised, acute care experience in treatment of respiratory disease. The various acute care facilities provide a vastly diversified experience in cardiopulmonary care.

The program is fully accredited by the Council on Allied Health Education and Accreditation of the American Medical Association.

A Certificate of Completion is awarded upon completion of the program.

**FALL SEMESTER**

| Anatomy & Physiology RS 111 | 6 |
| Basic Science RS 112 | 2 |
| Clinical Assessment RS 113 | 2 |
| Gas Therapy Theory RS 114 | 2 |
| Gas Therapy Lab RS 115 | 1 |
| Intro to Respiratory Therapy RS 116 | 1 |
| Communications RS 117 | 1 |
| Intermittent Positive Pressure Breathing RS 118 | 1 |
| Microbiology RS 119 | 1 |
| Pharmacology RS 120 | 3 |
| Clinical Practicum I RS 121 | 3 |
| TOTAL | 22 |

**SPRING SEMESTER**

| Cardiopulmonary Pathophysiology RS 151 | 5 |
| Cardiopulmonary Resuscitation RS 152 | 2 |
| Electrocardiography RS 153 | 1 |
| Mechanical Ventilation Theory RS 154 | 1 |
| Mechanical Ventilation Lab RS 155 | 1 |
| Pulmonary Function Theory RS 156 | 2 |
| Pulmonary Function Lab RS 157 | 2 |
| Clinical Practicum II RS 158 | 4 |
| TOTAL | 18 |

**SUMMER SEMESTER**

| Clinical Lecture Series RS 175 | 3 |
| Respiratory Care Review RS 176 | 5 |
| Clinical Practicum III RS 179 | 8 |
| TOTAL | 16 |

**Course Offerings**

See page 20 for definition of course numbering system

**RS RESPIRATORY THERAPY TECHNICIAN**

| RS 111 ANATOMY AND PHYSIOLOGY (6-0-6)(F). | A study of the body systems, functions and their interrelationships with a focus on the cardiopulmonary systems. PREREQ: PERM/INST. |
| RS 112 BASIC SCIENCE (2-0-2)(F). | A general science study including a review of basic mathematics, chemistry, and physics with emphasis on gas laws. PREREQ: PERM/INST. |
| RS 113 CLINICAL ASSESSMENT (2-0-3)(F). | The practice of respiratory assessment including breath sounds, inspection, auscultation, palpation, percussion, chest physiotherapy care. PREREQ: PERM/INST. |
| RS 114 GAS THERAPY THEORY (2-0-2)(F). | The detailed study of gases, aerosols, and humidity and their application to respiratory care. PREREQ: PERM/INST. |
| RS 115 GAS THERAPY LAB (0-4-1)(F). | Practical application of all gas therapy apparatus. Students will assemble, disassemble, and apply gas delivery equipment. PREREQ: PERM/INST. |
| RS 116 INTRODUCTION TO RESPIRATORY THERAPY (1-0-1)(F). | The introduction to clinical practice, basic patient care and charting. PREREQ: PERM/INST. |
| RS 117 COMMUNICATIONS (1-0-1)(F). | Practical application of communications. Includes the study of terminology, legal aspects, ethics, and job-seeking skills. PREREQ: PERM/INST. |
| RS 118 INTERMITTENT POSITIVE PRESSURE BREATHING (1-0-1)(F). | A study and application of intermittent positive breathing therapy and including basic, indications, contraindications, advantages, and hazards. PREREQ: PERM/INST. |
| RS 119 MICROBIOLOGY (1-0-1)(F). | A study of the classification, morphology, identification, and physiology of microorganisms with special emphasis on 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 (4-0-2)(F). | The student will obtain experience under the direct supervision of clinical instructors in community medical facilities. PREREQ: PERM/INST. |
| RS 151 CARDIOPULMONARY PATHOPHYSIOLOGY (4-0-4)(S). | A study of the cardiopulmonary systems and their effects on other body systems, normal physiology, and pathological entities including the role of respiratory care in certain disease states. PREREQ: PERM/INST. |
| RS 152 CARDIOPULMONARY RESUSCITATION (1-4-2)(S). | A study of the biologically dead patient, the physiology of cell, tissue, organ and system death. C.P.R. techniques, airway management, and intubation will be practiced. Students will meet American Heart Association CPR certification. PREREQ: PERM/INST. |
| RS 153 ELECTROCARDIOGRAPHY (1-0-1)(S). | A study of the normal and abnormal cardiac tracings, and basic EKG interpretations, and the practice of EKG techniques. PREREQ: PERM/INST. |
| RS 154 MECHANICAL VENTILATION THEORY (1-0-1)(S). | A comprehensive study of ventilators, including the mechanical and physiological aspects of long-term ventilatory support, and care of the patient on life support systems. PREREQ: PERM/INST. |
| RS 155 MECHANICAL VENTILATION LAB (0-4-1)(S). | Lab practice with models of ventilators including special techniques and augmented by clinical experience. PREREQ: PERM/INST. |
| RS 156 PULMONARY FUNCTION THEORY (2-0-2)(S). | A study of the history, techniques, and interpretation of pulmonary function studies in "state-of-the-art" testing. The study of etiology and symptomatology of diseases and their relationship to pulmonary function studies included. PREREQ: PERM/INST. |
| RS 157 PULMONARY FUNCTION LAB (0-8-2)(S). | Practical application of testing, including spirometry, plethysmography, exercise studies, and arterial blood gases. PREREQ: PERM/INST. |
| RS 158 CLINICAL PRACTICUM II (0-16-4)(S). | The student will obtain clinical experience under direct supervision of clinical instructors in community medical facilities. PREREQ: PERM/INST. |
| RS 175 CLINICAL LECTURE SERIES (3-0-3.5)(S). | Physician instructed study of pulmonary and cardiac diseases with emphasis on their clinical management. PREREQ: PERM/INST. |
RS 176 RESPIRATORY CARE REVIEW (5-0-3)(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 and shop experiences directed to maintaining and repairing of a variety of two and four cycle engines used on portable power equipment. Types of equipment studies may include: outdoor power equipment such as lawn mowers, tillers, trimmers, generators, chain saws, etc., and recreational vehicles such as snowmobiles, motorcycles, 4 wheelers, outboard motors, etc. The instructional units will emphasize the complete repair of all types of small engine equipment and related instruction will also include job getting skills, related math, computer literacy, parts and other skills.

SUBJECTS
Fall Spring
Small Engine Laboratory SE 101-102 ............... 8 8
Small Engine Theory SE 141-142 .................. 6 6
Occupational Relationships SE 262 ............... 2 2
TOTAL ........................................... 14 16

Course Offerings

See page 20 for definition of course numbering system

SE 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 outdoor power 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 (2-0-2S). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.

ST 101 Clinical Practice .............................. 3 -
ST 132 Advanced Clinical Practice ................... - 6
PE 121 Standard First Aid and CPR .................. 1 -
Z 111 Anatomy and Physiology ..................... 4 -
Z 112 Anatomy and Physiology ..................... - 4
TOTAL ........................................... 19 18

Course Offerings

See page 20 for definition of course numbering system

ST SURGICAL TECHNOLOGY

ST 100 INTRODUCTION AND BASIC SCIENCES (3-0-3)(F). Includes modules: (1) The Health Care Team and Its Language; (2) The Evolution of Asepsis; (3) Ethical Moral and Legal Responsibilities; (4) The Operating Room Suite; (5) Principles of Asepsis; (6) Introductio to Pharmacology; (7) Introduction to Oncology; (8) Disease Conditions; (9) Diagnostic Procedures; (10) Communication in Surgical Technology, including introduction to computers.

ST 101 OPERATING ROOM TECHNIQUES (5-3-4)(F). Includes modules: (1) Safety and Economy in 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 (1-1-1S). Includes modules: (1) Introduction to Microbiology—The Microbe; (2) Introduction to Microbiology—The Body’s Defenses; (3) Injury, Wound Healing and Hemostasis; (4) Infection—The Process, Prevention and Control; (5) Sterilization and Disinfection Methods.

ST 110 CARE OF THE SURGICAL PATIENT (3-3-4)(F). Includes modules: (1) The Patient; (2) Preparation of the Surgical Patient; (3) Transportation of the Surgical Patient; (4) Positioning the Surgical Patient; (5) Anesthesia; (6) Recovery Room and Emergency Room Care.

ST 111 SURGICAL PROCEDURES (6-4-7)(S). Modules: (1) General Surgical Procedures; (2) General Abdominal Procedures; (3) Orthopedic Surgery; (4) Obstetric and Gynecological Procedures; (5) Genitourinary and Transplant Surgery; (6) Plastic Surgery; (7) Ophthalmic Surgery; (8) Ear, Nose, Throat, Oral Surgery; (9) Neurosurgery; (10) Microsurgery; (11) Cardiovascular and Thoracic Surgery; (12) Pediatric and Geriatric Surgery. Each of the modules includes a brief history, procedures, special considerations and the drugs used.

ST 131 CLINICAL PRACTICE (2-6-3)(F). Includes patient care and beginning experience in the operating room, outpatient surgery and central supply.

ST 132 ADVANCED CLINICAL PRACTICE (4-8-4)(S). Includes advanced experience in surgery, scrubbing, and circulating.

Water/Wastewater Technology—Eleven Month Program

Certificate of Completion
Instructor: Al Hodge

The Water/Wastewater Technology Program is designed to prepare a student for employment as an entry level water/wastewater treatment plant operator. The program covers all phases of treatment plant operations, related math and sciences, maintenance, public relations, communications and report writing. Hands-on experience is provided when the student works at an area water or wastewater facility.

SUBJECTS

1st SEM 2nd SEM
Water/Wastewater Mechanical Lab I WW 110 .... 5 -
Water/Wastewater Mechanical Lab II WW 111 ... 5 -
Water/Wastewater Bio-Chem Lab I WW 120 ..... 5 -
Water/Wastewater Bio-Chem Lab II WW 121 ... 5 -
Water/Wastewater Math I WW 133 ............... 3 -
Water/Wastewater Math II WW 134 ............. - 3
Water/Wastewater Plant Operations I WW 133 ... 3 -
Water/Wastewater Plant Operations II WW 154 ... - 3
Occupational Relations WW 262 ................... 2 -
TOTAL ........................................... 16 18

SUMMER
Water/Wastewater In Plant Practicum WW 161 ... 8 -
Course Offerings

See page 20 for definition of course numbering system

WW 110 WATER/WASTEWATER TECHNOLOGY

Introduction to and use of hand tools, power tools, bench mounted tools and presses. Nomenclature of the various types of pumps, blowers, air compressors, clarifiers and other machinery used in water/wastewater treatment. Reading blueprints and schematics, learning basic skills of pipelining.

WW 111 WATER/WASTEWATER MECHANICAL LAB II (3-8-5S). Hands on assembly and disassembly of the various pieces of machinery used in the treatment processes. Installation of packing and mechanical seals in pumps and valves. PREREQ: WW 110.

WW 120 WATER/WASTEWATER BIO-CHEM LAB I (3-8-3F). Introduction to standard laboratory equipment, maintenance of equipment, safety procedures and practices. Some basic water and wastewater testing will be performed.

WW 121 WATER/WASTEWATER BIO-CHEM LAB II (3-8-5S). 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. 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. PREREQ: WW 120.

WW 121 IN PLANT PRACTICUM (8-0-0SU). 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 134 WATER/WASTEWATER TECHNICAL MATHEMATICS II (3-0-3F). Intermediate mathematics covering algebra, chemistry calculations, geometric means, logarithms, electrical circuitry, horse power calculations. PREREQ: WW 133.

WW 135 WATER/WASTEWATER TREATMENT PLANT OPERATIONS I (3-0-3F). Introduction to treatment plant operations, including well construction, distribution systems, collection systems, pre-treatment, primary sedimentation, aerobic and anaerobic digester operations. Related math, communication skills and chemistry.

WW 134 WATER/WASTEWATER TREATMENT PLANT OPERATIONS II (3-0-3S). Advanced treatment processes including coagulation, flocculation, sedimentation, softening, stabilization, fluoridation and defluoridation, chlorination, dechlorination and secondary treatment processes including trickling filters, aerobic biological filters, rotating biological contractors, oxidation ditches with heavy emphasis on activated sludge process control. Plant interaction, report writing, budget preparation and finance and related safety. PREREQ: WW 153.

WW 161 WATER/WASTEWATER IN PLANT PRACTICUM II (3-0-3S). Supervised experience in area water and/or wastewater facilities. Students gain experience in all phases of treatment in a variety of facilities and with several processes.

WW 262 OCCUPATIONAL RELATIONSHIPS (2-0-2S). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment.

Welding and Metals Fabrication—
Eleven Month Program

Certificate of Completion
Instructor: Ron Baldner

The Welding/Metal Fabrication Program provides the student with instruction, practical experience, and related theory in shielded metallic arc welding (SMAW), gas metal arc welding (GMAW/MIG), flux cored arc welding (FCAW), gas tungsten arc welding (GTAW/TIG) (Heli-Arc), oxygen-acetylene burn: (OA) welding and brazing, metallic inert gas (MIG) welding, oxygen-acetylene cutting of steel, and the use of carbon arc cutting equipment. The first 9 months will be basic to intermediate welding. The summer session will be at 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 Fall Spring Summer
Lab W 101-102-103 5 5 7
Theory W 151-152 4 1 -
Blueprint Read & Layout W 121-122 3 7 -
Welding Communication W 111 3 - -
Occupational Relations W 262 2 - -
TOTAL 15 15 7

Course Offerings

See page 20 for definition of course numbering system

W WELDING

W 101-102 WELDING LABORATORY (0-20-3F/S). 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 (3-30-7SU). 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 (3-0-3F). 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 (3-8-3F), (7-0-7S). 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 (4-0-4F), (1-0-1S). 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.

W 262 OCCUPATIONAL RELATIONSHIPS (2-0-2S). An examination of occupational requirements. Focuses on job seeking skills, employee and employer relations, social security, job safety laws and workers' compensation laws, C.P.R. and First Aid.

The Welding/Metal Fabrication Program provides the student with instruction, practical experience, and related theory in shielded metallic arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), gas tungsten arc welding (GTAW/TIG) (Heli-Arc), oxygen-acetylene burn: (OA) manual, semi-automatic, and automatic burn, as well as (OA) brazing and welding, plasma-arc cutting of ferrous and non-ferrous metals, and the use of carbon arc cutting equipment. The first 9 months will be basic to intermediate welders. 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.
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: Carol A. Martin, Ph.D., Professor of English
Exercise & Sports Studies: Glenn R. Potter, Ed.D., Chairperson and Professor of Physical Education
Geology: Craig White, Ph.D., Chairperson and Associate Professor of Geology and Geophysics
Geophysics: John R. Pelton, Ph.D., Associate Professor of Geology and Geophysics
History: Errol D. Jones, Ph.D., Associate Professor of History
Interdisciplinary Studies: Phillip Eastman, Ph.D., Professor of Mathematics
Public Affairs: Gary F. Moncrief, Ph.D., Chairperson and Professor, Department of Political Science
Raptor Biology: Marc Joseph Bechard, Ph.D., Professor, Department of Biology

Admission As A Graduate Student

The Graduate Admissions Office of the Graduate College provides preliminary admissions counseling, evaluates all transcripts for admission to graduate programs and verifies the completion of admission requirements. Students holding a bachelor’s or higher degree can be admitted as graduate, senior, sophomore or special for purposes of financial aid application and fee payment.

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

1. All students holding a bachelor’s or higher degree must submit an application for admission to the Graduate College and pay a nonrefundable $15.00 application fee.

2. All graduate students, except the categories exempted below, must submit official transcripts from each post-high school institution attended directly to the Graduate Admissions Office. An official transcript is one certified by the issuing institution and mailed by that institution directly to the Graduate Admissions Office.

Exempt categories: Students pursuing general graduate study or undergraduate courses of interest.
Programs
Boise State University offers the following graduate degrees: Master of Business Administration, Master of Arts/Science in Education, Master of Arts in English, Master of Science in Exercise and Sports Studies, Master of Public Affairs, Master of Arts in History, Master of Arts/Science in Interdisciplinary Studies, Master of Science in Raptor Biology, Master of Science in Geology in cooperation with Idaho State University, and a Master of Science in Geophysics.

Areas of Emphasis: The Master of Arts/Science in Education includes nine areas of emphasis: (1) Art, (2) Curriculum and Instruction, (3) Early Childhood, (4) Earth Science, (5) Instructional Technology, (6) Mathematics, (7) Music, (8) Reading, (9) Special Education. The Master of Public Affairs Degree Program has three areas of emphasis: (1) General, (2) Human Services, and (3) Criminal Justice.

Graduate Faculty
The graduate faculty is comprised of those full-time faculty who have been approved by the Graduate Council to teach graduate level courses, participate in the conduct of the graduate programs and supervise graduate students. Members of the graduate faculty are reviewed on a three year cycle to document their participation in graduate education activities.

Part-time faculty who are approved by the Graduate Council to teach a graduate course are appointed as adjunct graduate faculty. Such appointments are for specific assignments and are renewable but not perpetual.

General Information for Graduate Students
Application for admission to the Graduate College may be made at any time. However, there are admission deadlines for some programs and these are listed under the program description. It is recommended, however, that at least two months before the initial enrollment, the Office of Graduate Admissions will have received the application for admission, $15.00 application processing fee, official transcripts of all undergraduate and graduate work and any predictive exam scores. This will provide sufficient time to process the application prior to the semester the applicant wishes to commence graduate study. The transcripts are to be sent directly to the Boise State University Office of Graduate Admissions by the Registrar of the college or university which the applicant previously attended. For that purpose the applicant should communicate with the Registrars concerned and then allow them sufficient time to process and mail the transcripts. Applicants are strongly advised to submit the application for admission and the $15.00 application processing fee prior to requesting transcripts.

Graduate students pursuing a second baccalaureate degree must meet all the requirements and follow the same policies and procedures that apply to undergraduates in the same degree program. For example, some baccalaureate programs require admission to upper division standing with a specific grade point average, or have certain enrollment restrictions. Carefully read the program description and requirements for the undergraduate program you plan to pursue in order to determine your eligibility.

All documents received by the University in conjunction with applications for admission become the property of Boise State University. Under no circumstances will they be duplicated except for University advisement, nor the original returned to the applicant or forwarded to any agency or other college or university.

Admission to the Graduate College
A student may be admitted to the Graduate College at Boise State University when the following admissions criteria have been met:
1. The applicant has earned a baccalaureate degree from an accredited institution, or furnishes proof of equivalent education.
2. The applicant has maintained a grade point average which meets the minimal requirements of the college in which he wishes to enroll.
3. Completion of the predictive examination required by the department as listed under department criteria.
4. Recommendation for admission by the department in which the applicant expects to work and approval by the Graduate College.

Graduate Status Classification for Matriculated Students:
All applicants are admitted to the Graduate College initially with unclassified status and retain this status until they have been accepted into a graduate program with either provisional or regular status.

Provisional Status: Applicants may be admitted to the Graduate College with provisional status if the department or academic unit in which they plan to study requires additional evidence of their qualification for admission with regular status. No student may maintain provisional status indefinitely. The department or academic unit concerned will normally make a final determination of students with provisional status by the time they have completed twelve credits of approved study.

Regular Status: The applicant has been admitted with full graduate standing into a graduate degree program.

Graduate Courses for Undergraduate Credit
Boise State University seniors may take up to two 500 level courses for Upper Division credit applied to their baccalaureate degree program. The necessary permit forms are available at 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 ifso far 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 designated as non-transferable. No grade below B may not count a retaken course toward any Master Degree Program. Grades below C cannot be used to meet the requirements of a graduate degree. Grades on transfer work will not be included in computing grade point average.

Repeat, Retake Policy: A student who earns a grade of D in a graded 500 level course at BSU may include no more than one repeated course toward a Master’s Degree Program. A student who earns a grade of F, may not count a retaken course toward any Master Degree Program at Boise State University. Therefore, a student who gets an F in a required course is automatically excluded from further Master degree work. With a D in one of these courses there is a single chance of redemption.

Credit Requirements: A minimum of thirty semester credits of coursework approved by the graduate student’s supervisory committee is required. More than thirty semester credits may be required in certain programs.

Supervisory Committee Assignment: Upon admission of the applicant with regular graduate status, a supervisory committee consisting of a chairperson and other faculty members, will be appointed by the department fielding the program. This supervisory committee or the advisor, as determined within each degree program of study, will establish with the student a program of study, direct any thesis or graduate projects and administer final examinations.

Students admitted with provisional status will be assigned a temporary advisor who will be responsible for building a tentative program of studies. This advisor will guide the student with respect to meeting the stipulations of the provisional admission. Once the provisional stipulations have been satisfactorily met by the student, the department concerned will recommend to the Dean of the Graduate College that the student be admitted with regular graduate status.
Residence Requirements: A minimum of twenty-one semester credits of approved graduate work taken on the university campus is required. This requirement does not apply to students enrolled in any inter-institutional cooperative graduate program offered jointly by BSU and the other Idaho universities.

Transfer of Credits: A maximum of nine semester graduate credits taken at other institutions may be transferred for credit toward a Master degree provided the courses are an acceptable part of the program of study planned by the student's supervisory committee. Such courses may have been taken in an accredited college or university. Only courses with a B or higher 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 oral or written examinations 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 admission criteria performance scores from predictive examinations, it is necessary that application be made without delay to take the examination. Education and Public Affairs students are not required to take a predictive examination.

Students wishing to pursue graduate study in Business Administration should contact the Office of the Dean, College of Business, Boise State University, or the Graduate Admissions Office to secure the forms necessary to make application for taking the predictive examination called the GMAT. Every effort should be made to take the GMAT as soon as possible because students will not be given program status before the GMAT results are reported. Courses taken before the student is admitted (i.e., "Unclassified Status" courses) will not necessarily be allowed toward the MBA even if the student is admitted subsequently.

Students wishing to pursue graduate study in Geology, Geophysics, Interdisciplinary Studies, Public Affairs, or Raptor Biology should contact the Graduate Admissions Office to secure application forms for taking the GRE.

Program Development Form: Graduate students with regular or provisional status will complete a Program Development Form with their advisor or committee before the end of the first academic period (summer, fall or spring) after which the credit has been earned, whichever is the earlier date. It is the responsibility of the graduate student to keep all program changes up to date for a graduate degree.

Time Limitations: All work offered toward a Master's degree from Boise State University must be completed within a period of seven calendar years. The seven-year interval is to commence with the beginning of the oldest course (or other academic experience) for which credit is offered in a given Master Degree Program, and the interval must include the date of graduation when the Master degree from BSU is given.

Foreign Language Requirements: Language requirements are determined by the department concerned. If a foreign language is required, students must demonstrate that they possess a reading knowledge of a language specified by the department.

Thesis Requirements: The requirement of a thesis or similar project is determined by the department or interdisciplinary unit concerned. The final copy of the thesis must be reviewed by the student's supervisory committee and submitted to the Dean of the Graduate College at least three weeks before commencement.

Candidacy: Students should apply for admission to candidacy and graduation as soon as they have completed twelve hours of graduate work with a grade point average of at least 3.00 in an approved graduate program of study, have removed all listed deficiencies, and have met any specific foreign language requirements.

Candidacy involves specifying, on the appropriate form, the list of courses and projects which comprise the student's program. Changes in the planned program after admission to candidacy must be recommended in writing by the student's committee or advisor and be approved by the Dean of the Graduate College.

Final Examination Requirements: The requirements of a final examination, written, oral, or both, in any non-thesis non-project program 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:
Courses other than graduate, numbered at the 300 or 400 levels, may be given g or G designation to carry graduate credit. The department or college concerned will have the right to limit the number of g or G credits which can count toward any degree for which it has responsibility, and in no case can more than one-third of the credits in a degree program be in courses at the 300 or 400 level. No course numbered below 500 carries graduate credit unless the g or G is affixed.

1. g courses carry graduate credit only for graduate students in majors outside of the area of responsibility of the department or college.
2. G courses carry graduate credit for students both in the department or college and for other students as well.
3. Graduate students enrolled in G or g courses will be required to do extra work in order to receive graduate credit for the courses.

Application for Graduate Degree
The last step in completing a graduate program consists of arranging for final record checking. To accomplish this, one completes the form 'Application for Graduate Degree' which can be obtained from the 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.

Master of Business Administration
College of Business

Objectives
The objective of the Boise State University program leading to the graduate degree is to prepare candidates for top level administrative positions in their chosen field. The MBA degree emphasizes the traditional approach of preparing students for general management, with a common body of functional knowledge given to all students. Once a student satisfies the functional core of courses, electives are available for achieving a minor degree of concentration.

Matriculation Requirements

General Prerequisites for Applicants: Admission will be granted to applicants who hold a Bachelor's degree from an accredited college or university and who meet the standards set by the College of Business of Boise State University. Common to all programs is a foundation of course work in basic fields of Business Administration. Students holding a Bachelor's degree in Business normally will have completed most of these requirements as part of their undergraduate program. The Master of Business Administration program is also designed to serve the student who has completed his or her Bachelor's degree in non-Business fields such as the Sciences, Engineering and the Liberal Arts.

In addition to the application requirements of the Graduate College, all MBA applicants should submit:
1. a demonstration of written communication skills (particulars available from the MBA Program Coordinator), and
2. two letters of reference, one, preferably, from an academic source.

Specific Prerequisites for Applicants: All applicants must meet the following undergraduate requirements or must fulfill these requirements prior to enrolling in the graduate classes. (New applicants for the programs should furnish documentary evidence of GMAT scores and copies of official transcripts upon initial application. For fall 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 1050, or 2) 200 x junior/senior GPA 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.

Application deadlines:
Summer, Fall entry .........................................................April 30
Spring entry ....................................................October 30

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 ...................................................24
Advanced Courses .....................................................21
Electives .......................................................................9

Depending upon their undergraduate coursework, students may select 3-6 credit hours from the 400 level "G" courses from the undergraduate College of Business program. Only those courses listed on the following pages are approved. Advisors should be consulted regarding those courses.

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 20 for definition of course numbering system

MBA—Course Descriptions

FOUNDATION COURSES

These courses assume that the student has had no previous coursework in business. Conversely, any or all of these courses may be waived if the student has already taken them at an accredited 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). The student can expect to develop a working knowledge of financial and managerial accounting tools, techniques and procedures.

DS 513 BUSINESS STATISTICS (3-0-3)(F). This course examines the use of statistics in decision-making, presentation and summarization of data, estimation, hypothesis testing, regression analysis, analysis of variance, time series and forecasting, and non-parametric methods.
DS 523 PRODUCTION AND SYSTEMS MANAGEMENT (3-0-3(S)). This course stresses the management of the production function: analysis, design and layout, scheduling, and inventory control. Prerequisites: DS 513 or equivalent.

EC 514 ECONOMIC THEORY AND ANALYSIS (3-0-3(F)). This course is an accelerated, integrated introduction to economic analysis of the price system and the aggregate performance of developed economies. Supply and demand, basic market structures, income distribution, employment, inflation, growth and international trade.

FI 525 CORPORATE FINANCE (3-0-3(S)). Concepts and techniques of corporate financial management are integrated with the business environment. Prerequisites: AC 551 or equivalent.

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.

MG 528 ORGANIZATIONAL THEORY AND BEHAVIOR (3-0-3(S)). This course covers the process of planning, organizing, directing, and controlling. Main topics include theories of organizational performance, structure and design, interpersonal and leadership skills. Emphasis is placed on application of theory to business situations and development of interpersonal skills.

MK 529 MARKETING MANAGEMENT (3-0-3(S)). This course includes a comprehensive examination of the activities and models used in marketing. It also includes identifying and interpreting buyers' needs, market segmentation, 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 for pricing and capital budgeting. The overall objective is an understanding of techniques of cost planning and control. Prerequisite: 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 forecasting with organizational problems, analyzing and responding to multiple objectives, utilizing subjective inputs, and evaluating and incorporating information. Prerequisite: 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. Prerequisites: 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. Prerequisite: GB 516 or equivalent.

GB 546 STRATEGIC PLANNING (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 strategy, business risks and opportunities and on the development of long-term plans and programs, executive and managerial controls. Prerequisite: AC 531, DS 533, FI 545, MG 539 and MG 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. Prerequisite: MG 528 or equivalent.

MK 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. Prerequisite: MG 529 or equivalent.

MBA—Elective Courses

AS 512 COMMUNICATION TECHNIQUES FOR MANAGERS (3-0-3(Intermittent)). Analysis of management communication requirements in business. Development of a critical sense and analytical ability through evaluation of research, reports, and case studies. Writing and speaking skills emphasized through written reports, oral presentation and small group activities.

DS 512 STATISTICAL METHODS FOR BUSINESS DECISIONS (3-0-3(Intermittent)). The application of the techniques and the reason for their employment in decision processes. Computer application programs are employed to assist in the learning process. Topics generally covered include: multiple regression analysis, forecasting and multivariate analysis. Prerequisite: DS 523 or equivalent courses.

DS 514 OPERATIONS RESEARCH METHODS FOR DECISION MAKING (3-0-3(Inter- mittent)). An introduction to operations research, applying quantitative tools and interpreting the results. Particular attention is given to using the computer to analyze quantitative models. Typical areas covered are: linear programming, network models, and inventory control theory. Prerequisite: 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. Prerequisite: EC 514.

GB 545 INTERNATIONAL BUSINESS (3-0-3(F)). An overview of (1) the international business environment; (2) country characteristics and conditions affecting firms that conduct business overseas; and (3) firm level decisions about marketing, finance and personnel, and other functions.

IS 542 INFORMATION SYSTEMS (3-0-3(F)). This course is a study of the impact of the computer on managers and the environment in which managers work. Topics include database, MIS, the impact of information systems on management and the management decision process, and the actual management and control of information systems. Selected computer applications are explored.

MG 541 HUMAN RESOURCE MANAGEMENT (3-0-3(F)). Effective management of human resources including discussion of the supervisory processes conducive to reducing labor costs and increasing productivity. Special attention is given to the human, organizational, and environmental constraints which limit managerial actions. Techniques for effectively functioning within these constraints.

MK 520 MARKETING PROBLEMS (3-0-3(Intermittent)). Analytical approach to marketing problem solving and decision making. Covers market definition, personal selling, advertising and sales promotion, distribution channels, strategy formulation, product development procedures, and customer services. Case study approach is utilized.

Selected Topics Contemporary topics courses offered intermittently. See appropriate department listings for complete course descriptions.

AC 580 SELECTED TOPICS — Accounting (3-0-3).

EC 582 SELECTED TOPICS — Economics (3-0-3).

FI 583 SELECTED TOPICS — Finance (3-0-3).

IS 581 SELECTED TOPICS — Information Systems (3-0-3).

MG 584 SELECTED TOPICS — Industrial Psychology (3-0-3).

MG 585 SELECTED TOPICS — Management (3-0-3).

MG 586 SELECTED TOPICS — Marketing (3-0-3).

590 INTERNSHIP. Available on a selective, limited basis. MBA students should consult with pertinent faculty and coordinator.

596 DIRECTED RESEARCH (1-3 credits). Involves special projects undertaken by the student, consisting of individual work suited to the needs and interests of the student. The course embodies research, discussions of the subject matter and procedures with a designated professor, and a documented paper covering the subject.

Undergraduate “C” Courses. At most two of the following courses may be taken for graduate credit if cleared by the Graduate Program Coordinator. See appropriate department listings for complete course descriptions.

AC 440G ACCOUNTING THEORY (3-0-3(S)).

PR 408G OPERATIONS MANAGEMENT (3-0-3(F)).

EC 411G-422G ECONOMETRICS (3-0-3(F)).

FI 410G WORKING CAPITAL MANAGEMENT (3-0-3(S)).

FI 411G CAPITAL BUDGETING AND PLANNING (3-0-3(F)).

FI 420G MANAGEMENT OF FINANCIAL INSTITUTIONS (3-0-3(F)).

FI 421G DECISION PROCESSES IN BANKING (3-0-3(S)).

FI 451G FRONTIERS IN FINANCIAL MARKETS (3-0-3(S)).

GB 441G GOVERNMENT AND BUSINESS (3-0-3(S)).

MK 415G MARKETING RESEARCH (3-0-3(F)).

Master of Arts or Science in Education College of Education

The College of Education offers two Master's degrees: Master of Arts or Science in Education and Master of Science in Exercise and Sport Studies.

The Associate Dean of the College of Education has been assigned the authority and responsibility for the overall administration and operation of the graduate programs in the College.
A Master's degree in Education with emphases in Art, Curriculum & Instruction, Early Childhood, Earth Science, Instructional Technology, Mathematics, Music, Reading and Special Education is presented through the Department of Teacher Education, the related subject departments and the College of Education.

Application for admission to the graduate program in Education may be made at any time. It is recommended, however, that at least two months before the first enrollment, the Graduate Admissions Office will have received the application for admission, $15.00 application processing fee and official transcripts of all undergraduate and graduate work. The transcripts are to be sent directly to the Boise State University Graduate Admissions Office by the Registrar of each college or university which the applicant previously attended.

Admission will be granted to an applicant who holds a Bachelor's degree from an accredited college or university and who has some professional relationship to instruction. The candidate must meet the standards set by the College of Education and participating departments as well as the specific regulations of the particular program for which he or she applies.

An applicant for regular status in the program must have maintained a GPA of at least 3.00 for the last two years of undergraduate study, or an overall GPA of 2.75. Provisional status may be granted to an applicant not meeting the listed requirements, if deemed appropriate.

The name of the faculty member who will serve as chairperson of the candidate's advisory committee is listed in the letter of acceptance to the applicant. Candidates should contact the assigned committee chairperson (advisor) as soon as possible in order to plan a program. Credits taken prior to such planning are subject to the review and approval of the committee chairperson and the Associate Dean of the College of Education.

A maximum of nine semester graduate credits may be accepted from other accredited graduate schools upon approval of the chairperson of the candidate's committee and the Associate Dean of the College of Education. A maximum of six semester credits of pass-fail credits will be allowed in the degree program.

Six semester hours of credit will be open for selection in any area of the University's course offerings that will enable the candidate to strengthen a competency identified in his or her program. The candidate in cooperation with the advisor, will choose courses which will meet the individual's program objectives.

Those students selecting one of the following areas of emphasis will follow the procedures set forth by respective departments: Art, Earth Science (Department of Geology/Geophysics), Mathematics and Music.

Graduate Core: The Graduate Core is required of all candidates for a Master of Arts in Education, except those seeking the Instructional Technology emphasis.

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

Elective Courses (Select two from the following):

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 561 Law for the Classroom Teacher</td>
<td>1</td>
</tr>
<tr>
<td>TE 562 School Organization and Finance</td>
<td>1</td>
</tr>
<tr>
<td>TE 564 Instructional Techniques-Secondary School</td>
<td>1</td>
</tr>
<tr>
<td>TE 565 Interpreting Educational Research</td>
<td>1</td>
</tr>
<tr>
<td>TE 566 Learning Theory and Classroom Instruction</td>
<td>1</td>
</tr>
<tr>
<td>TE 568 Techniques of Classroom Management</td>
<td>1</td>
</tr>
<tr>
<td>TE 569 Testing and Grading</td>
<td>1</td>
</tr>
<tr>
<td>TE 573 Instructional Techniques—Elem School</td>
<td>1</td>
</tr>
<tr>
<td>TE 578 Parents in the Educational Process</td>
<td>1</td>
</tr>
</tbody>
</table>

TOTAL 6

Additional credits to the above will be determined by the respective departments.

Master of Arts in Education
Department of Teacher Education

Option Requirements

The Education Graduate Program provides two options for those selecting one of the following emphases: Curriculum and Instruction, Early Childhood, Reading, or Special Education: Option I Thesis/Project and Option II Written Comprehensive Examination.

Option I (Thesis/Project)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Core</td>
<td>6</td>
</tr>
<tr>
<td>TE 551 Fundamentals of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>TE 591 or TE 593 Thesis or Project</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives and specific requirements</td>
<td>18</td>
</tr>
</tbody>
</table>

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 Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Core</td>
<td>6</td>
</tr>
<tr>
<td>TE 559 Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
<td>TE 551 Fundamentals of Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives and specific requirements</td>
<td>24</td>
</tr>
<tr>
<td>TOTAL 33</td>
<td></td>
</tr>
</tbody>
</table>

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 Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Graduate Core</td>
<td>6</td>
</tr>
<tr>
<td>2. TE 581 Curriculum Planning and Implementation</td>
<td>3</td>
</tr>
<tr>
<td>3. TE 582 Instructional Theory</td>
<td>3</td>
</tr>
<tr>
<td>4. Content area courses</td>
<td>9</td>
</tr>
<tr>
<td>5. Elective options (choose I or II, below)</td>
<td></td>
</tr>
<tr>
<td>I. Thesis-Project</td>
<td></td>
</tr>
<tr>
<td>TE 551 Fundamentals of Ed. Research</td>
<td>3</td>
</tr>
<tr>
<td>TE 591 or 593 Thesis or Project</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL 33</td>
<td></td>
</tr>
</tbody>
</table>

Early Childhood Emphasis

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Graduate Core</td>
<td>6</td>
</tr>
<tr>
<td>2. TE 543 Early Childhood: Readings</td>
<td>3</td>
</tr>
<tr>
<td>3. Two of the following three courses:</td>
<td>3</td>
</tr>
<tr>
<td>TE 544 Early Childhood: Advanced Child Develop</td>
<td>3</td>
</tr>
<tr>
<td>TE 546 Early Childhood: Environments &amp; Programs</td>
<td>3</td>
</tr>
<tr>
<td>TE 547 Early Childhood: Language Acq &amp; Dev</td>
<td>3</td>
</tr>
<tr>
<td>4. TE 590 Practicum: Early Childhood</td>
<td>2-4</td>
</tr>
<tr>
<td>5. Option electives (choose I or II below)</td>
<td></td>
</tr>
<tr>
<td>I. Thesis/Project</td>
<td></td>
</tr>
<tr>
<td>TE 551 Fundamentals of Ed. Research</td>
<td>3</td>
</tr>
<tr>
<td>TE 591 or 593 Thesis or Project</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>5-7</td>
</tr>
<tr>
<td>TOTAL 33</td>
<td></td>
</tr>
</tbody>
</table>

OR

II. Comprehensive Written Examination

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 559 Philosophy of Education</td>
<td>3</td>
</tr>
<tr>
<td>TE 551 Fundamentals of Ed. Research</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>11-13</td>
</tr>
<tr>
<td>TOTAL 33</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Students electing Option II must take a research class, which may be TE 565 Interpreting Educational Research (1 credit) as part of core, or TE 551 Fund. of Educational Research (3 credits).
Reading Emphasis

For Those Primarily Responsible for Elementary School Instruction

1. Graduate Core ................................................. 6
2. TE 501 Foundations of Reading Instruction ............... 3
3. TE 502 Diagnosis & Correction of Read. Prob.—Elem. ... 3
4. TE 504 Seminar in Reading Education .................. 3
5. Option electives (choose I or II below)
   I. Thesis/Project
      TE 551 Fundamentals of Ed. Research ................. 3
      TE 591 or 593 Thesis or Project .................... 6
      Reading electives .................................... 3
      Approved electives .................................. 6
      Approved electives .................................. 3

   II. Comprehensive Written Examination
      TE 559 Philosophy of Education ..................... 3

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 502 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 Ed. Research ................. 3
      TE 591 or 593 Thesis or Project .................... 6
      Reading electives .................................... 3
      Approved electives .................................. 6
      Approved electives .................................. 3

   II. Comprehensive Written Examination
      TE 559 Philosophy of Education ..................... 3

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.

Severe Retardation:

1. Graduate Core ................................................. 6
2. TE 514 Counseling/Consulting Skills for Educators ....... 3
3. TE 517 Seminar on the Severely Handicapped Learner .... 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 Ed. ................ 3
7. Option electives (choose I or II below)
   I. Thesis/Project option:
      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

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 Degree in Education with an emphasis in Instructional Technology is intended to prepare students for careers as educators, trainers or instructional designers in education, business, or government.

In this program students are equipped with a broad range of conceptual and practical skills in instructional and performance analysis, system design, program development, the transfer of technology, consulting, and the use of a variety of educational/training delivery systems. The emphasis of this program is not to produce specialists in the use of any particular technology, but to prepare professionals who know how to use a wide variety of tools most appropriately to produce the greatest long-term positive impact on individual and organizational performance.
This program includes 33 credits of coursework which gives students a wide range of both theoretical and practical experiences, including many opportunities to become involved in actual projects in business, government and education. The program culminates in a practical project involving an actual client organization or a thesis investigating an important and timely issue.

Requirements:
1. TE 536 Intro Instructional Technology ........................................... 3
2. TE 537 Instructional Design ............................................................. 3
3. TE 551 Fundamentals of Educational Research ................................. 3
4. TE 582 Instructional Theory ............................................................. 3
5. TE 582 Instructional Courseware Design ......................................... 3
6. TE 583 Selected Topics-Instructional Technology ............................ 3
7. TE 520 Video Delivery Systems ...................................................... 3
8. TE 591 Project or TE 593 Thesis ..................................................... 6

Electives:
Students are to take at least 6 credits of elective course work, with at least 3 credits recommended outside of the College of Education.

Suggestions:
- Organizational Theory & Behavior MG 528 ........................................ 3
- Accounting for Managers AC 511 ........................................................ 3
- Communication Tech for Managers AS 512 ........................................ 3
- Public Policy Processes PA 501 ........................................................... 3
- Conflict & Change in Socio-Cult Systems SO 510 .............................. 3
- Curr Plan & Implement TE 581 ............................................................ 3
- Artificial Intelligence Appl TE 539 ....................................................... 3

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 candidates responsibility to make application to the State Department of Education.

Course Offerings
See page 20 for definition of course numbering system

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

P 421G PSYCHOLOGICAL MEASUREMENT (3-0-3)

P 450G ADVANCED STATISTICAL METHODS (3-2-4)

Graduate

P 502 ADVANCED EDUCATIONAL PSYCHOLOGY (3-0-3). A study of contemporary issues involving both theoretical and methodological considerations in the history and systems of educational psychology. Special emphasis will be given to group behavior in terms of principles relevant to educational objectives. PREREQ: P 101 and P 325. Offered on demand.

P 593 INDIVIDUAL TESTING PRACTICUM (3-0-3). Emphasis on administering and scoring intelligence tests and on test interpretation. PREREQ: M 111-204, P 305, P 421, PERM/INST. Offered odd numbered years.

P 540 ANALYSIS OF THE INDIVIDUAL (3-0-3). A study of techniques used in analyzing the individual with emphasis on the elementary level. The course includes observational methods, recording behavior, behavioral analysis, interviewing and use of test information. PREREQ: P 101. Offered on demand.

P 505 PERSONALITY DEVELOPMENT (3-0-3). Critical consideration of the main personality theories, particularly those which emphasize current concepts regarding learning, perception and motivation. Study of the interaction of emotional and cognitive factors in personality development at different age levels is pursued. PREREQ: P 101. Offered on demand.

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

TE 407G READING IN THE CONTENT SUBJECTS (3-0-3)(FSU).

TE 423G TEACHING THE MODERATELY AND SEVERELY HANDICAPPED (3-0-3).

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

Graduate

TE 501 FOUNDATIONS OF READING INSTRUCTION (3-0-3)(FSU/SSU).

Students in this class study the theoretical constructs of reading, the psychological and pedagogical foundations of reading instruction, and learn to create and improve reading education programs in elementary and secondary classrooms.

TE 502 DIAGNOSIS AND CORRECTION OF READING PROBLEMS (3-0-3)(FSU/SSU).

Teaching and standardized testing procedures and corrective techniques will be learned, practiced, and then applied to a child in the Reading Education Center. All techniques are those a classroom teacher would utilize. A case report will culminate the course. PREREQ: TE 501 or PERM/INST.

TE 503 CLINIC FOR READING SPECIALISTS (3-0-3)(SSU).

This course emphasizes more intricate diagnostic techniques and remediation procedures. Alternative testing methods will be presented. Each participant works with a child under supervision in the Reading Education Center and prepares a case report. PREREQ: TE 502 or PERM/INST.

TE 504 SEMINAR IN READING EDUCATION (3-0-3)(FSU/SSU).

This course covers three areas of reading education: involvement in a professional reading association, leadership in reading education, and current issues in reading education. PREREQ: TE 502 or TE 503 or permission of instructor.

TE 505 INDIVIDUAL TESTS & MEASUREMENTS (3-0-3)(SSU).

An intense investigation is pursued in the area of measurement theory followed by practical applications in individual testing and student diagnosis.

TE 508 DIAGNOSIS AND CORRECTION OF READING PROBLEMS—SECONDARY (3-0-3)(FSU/SSU).

This course is designed for the teacher of the required high school reading course and any other high school course dealing with students with reading problems.
TE 510 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING SOCIAL SCIENCE (3-0-3)(F). A comprehensive study of the practices and principles in social science education, including objectives, social problems, unit development, work-study skills, organization of the program materials and media, and research findings basic to social studies will be developed.

TE 511 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCHOOL MATHEMATICS (3-0-3)(S). Emphasis on effective methods and strategies for teaching elementary school mathematics. Also includes a review of current research, curriculum trends and exploration of experimentation with unique materials for teaching mathematics.

TE 512 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING LANGUAGE ARTS AND LINGUISTICS (3-0-3)(F). Emphasis will be given to the role of language arts and linguistics in the school curriculum, stressing modern approaches to language development, semantics, phonetics, phonics, and orthography.

TE 513 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCIENCE (3-0-3)(F). Current practices and principles in modern elementary science concepts are developed. Emphasis is placed on the selection and organization of content and experimental activities.

TE 514 COUNSELING/CONSULTING SKILLS FOR EDUCATORS (3-1-3)(F). This course will cover the development of counseling and consulting skills for educators to work with parents and other professionals. Instruction will focus on developing skills to work with students who experience various social and emotional concerns relating to learning. Major areas to be addressed will include theories and approaches to counseling and consulting, communication skills, intervention programs. PREREQ: GRAD or PERM/INST.

TE 515 ADVANCED THEORY OF INSTRUCTIONAL DESIGN FOR SPECIAL EDUCATORS (3-0-3)(F). The course is designed to teach students advanced design components to effectively instruct special education children and adults. The course will include the theoretical and programmatic considerations of instructional design. The course may be useful to regular classroom teachers who wish to gain some knowledge in dealing with special students. PREREQ: TE 431 or PERM/INST.

TE 516 TEACHING GIFTED AND TALENTED STUDENTS (3-0-3)(S). Teachers and 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 usefulness.

TE 517 SEMINAR ON THE SEVERELY HANDICAPPED LEARNER (3-0-3)(S). Graduate level course is designed to facilitate student knowledge and skills in relation to teaching the severely handicapped learner. Emphasis is placed on research-based, instructional techniques and current professional issues in the field. PREREQ: TE 423 or PERM/INST.

TE 518 TECHNIQUES FOR CREATIVE WRITING IN ELEMENTARY SCHOOLS (3-0-3)(F). Methods and techniques for encouraging creative writing in the elementary school.

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

TE 520 VIDEO DELIVERY SYSTEMS (3-0-3)(S). Students will investigate the video and audio applications of technology for instruction such as Instructional Television Fixed Service (ITFS), teleconferences, and educational television. PREREQ: TE 537.

TE 521 ELEMENTARY PHYSICAL EDUCATION ACTIVITIES (3-0-3)(S). Methods and techniques for classroom and playground activities for physical education, curriculum development will be presented. Emphasis upon corrective physical education procedures will be given. Alternate years.

TE 522 INDIVIDUALIZATION OF READING INSTRUCTION (3-0-3)(S). 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 developing skills in identifying emotional problems and planning the remedial steps needed for correction. PREREQ: PERM/INST.

TE 524 EDUCATION FOR THE CULTURALLY DIFFERENT LEARNER (3-0-3)(S). A study of the development of children and adolescents in different cultures in comparative relationship to existing values. The lifestyle of various minority groups and implications for education will be examined. Major topics include culturally different learner; (1) learning styles, (2) media, (3) process of change. Idaho minority groups will be emphasized.

TE 534 ISSUES & TRENDS IN SPECIAL EDUCATION (3-0-3)(S). The course will investigate the current issues and trends in the field of special education. It will be organized around six topical areas: (1) identification, (2) assessment, (3) eligibility, (4) service delivery, (5) intervention approaches, and (6) instructional strategies. Discussion will be library 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 (3-0-3)(F). 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 (3-0-3)(F). This course will enable students to identify instructional needs, determine and organize content, select appropriate methods, and devise evaluation and revision cycles.

TE 538 INSTRUCTIONAL COURSEWARE DESIGN (3-0-3)(S). 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 (3-0-3)(SU). 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 (3-0-3)(F). The course provides an analysis of the relationship between national goals and the educational system in the twentieth century. 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 542 EARLY CHILDHOOD: READINGS (3-0-3)(S). 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 (3-0-3)(F). 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 (3-0-3)(S). Emphasis will be given to the elements of experimental and non-experimental research designs. Instruction in using research resources and interpreting statistics will be given and students will analyze current research related to education. Students will learn how to develop a research proposal and will write a scholarly research paper.

TE 555 SUPERVISION OF INSTRUCTIONAL PERSONNEL (3-0-3)(S). 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 (3-0-3)(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 (1-0-1)(SU). This course will help school personnel with an understanding of the judicial system and how it helps 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 (1-0-1)(SU). 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 (1-0-1)(SU). Students will explore ideological positions which have affected educational programs and policies. They 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 (1-0-1)(SU). 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 (1-0-1)(SU). 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 (1-0-1)(SU). Students will investigate major contemporary learning theories and their implications for instruction and curriculum development.
TE 568 TECHNIQUES OF CLASSROOM MANAGEMENT (1-0-1)(SU). 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 (1-0-1)(SU). 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)(F/S/SU). This is a general course for practicing teachers intended to give them a foundation in curriculum theory and practice. They will develop an understanding of how curriculum is developed, organized, implemented and evaluated. Current issues and trends in curriculum with some historical perspective will be explored.

TE 582 INSTRUCTIONAL THEORY (3-0-3)(F/S/SU). This course includes investiga-tions 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). 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 536.

TE 590 PRACTICUM (Variable).

TE 591 PROJECT (0-V-6).

TE 593 THESIS (0-V-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:
      Art Appreciation in the Educational Program AR 501 ............ 3
      Special Methods: Curr & Develop in Art Educ AR 551 ............ 3
      Project AR 391 ..................................................... 6
      Thesis (or additional hours) AR 593 ............................. 6
      Education Core courses ........................................... 6
   b. Studio or Content: Six (6) credits in the studio. Studio concentra-
      tion 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 20 for definition of course numbering system

AR ART

AR 501 ART APPRECIATION IN THE EDUCATIONAL PROGRAM (3-0-3)(F). Emphasis will be placed on understanding the motivations behind interpretation of ideas and symbols. Also emphasized will be communication of this understanding to the various age groups represented on the secondary school level. PREREQ: Graduate status or PERM/INST.

AR 521 TEACHING THROUGH EXPERIMENTAL ART MEDIA (0-6-2)(SU). (Previously approved for Elementary Master's Degree). Varied and unusual experimental art media to be used in conjunction with individual teaching techniques. Students will have the opportunity to solve procedural problems and adapt art media to teaching experiences. Some outside reading will be required, as well as written paper. PREREQ: Graduate standing. Summers only by request.

AR 522 TEACHING THROUGH EXPERIMENTAL ART MEDIA (0-6-3)(SU). Varied and unusual experimental art media to be used in conjunction with individual teaching techniques. Students will have the opportunity to solve procedural problems and adapt art media to the teaching experiences. Some outside reading will be required, as well as a written paper. PREREQ: Graduate standing. Summers only by request.

AR 551 SPECIAL METHODS: CURRICULUM DEVELOPMENT IN ART EDUCATION (3-0-3)(F). Designed for the secondary school art teacher, this course will be geared to creative curriculum planning. It will be held in a workshop seminar format to facilitate student interaction and the opportunity to experiment and develop new ideas. PREREQ: Graduate status and PERM/INST.

AR 580-589 SERIES SELECTED TOPICS (3-0-3). An opportunity for the student to work independently with a particular teacher in a specific area or media. A total of nine credits allowable which can be divided into several areas or concentrated, distribution determined by the graduate student and committee.

AR 580 SELECTED TOPICS—DRAWING.

AR 581 SELECTED TOPICS—PAINTING.

AR 582 SELECTED TOPICS—CRAFTS.

AR 583 SELECTED TOPICS—SCULPTURE.

AR 584 SELECTED TOPICS—PHOTOGRAPHY.

AR 585 SELECTED TOPICS—CERAMICS.

AR 586 SELECTED TOPICS—PRINTMAKING.

AR 587 SELECTED TOPICS—DESIGNING.

AR 588 SELECTED TOPICS—Illustration.

AR 589 SELECTED TOPICS—ART HISTORY.

AR 591 PROJECT (6 credits). See below.

AR 593 THESIS (V-V-6). The thesis, or culminating project, may be defined, but is not limited to a combination of any two of the following:
1. A scholarly paper embodying the results of original research which are used to substantiate a specific conclusion.
2. Three written reports directed toward the student’s particular area of study.
3. A curricular proposal in written form which could be considered for implementation in the schools.
4. Art show with a faculty review.
5. A submitted portfolio of work with a fall faculty review.
PREREQ: Graduate standing.

AR 598 SEMINAR IN ART (3-0-3). (Previously approved for Elementary Master's Degree). Upon selection of an approved topic, the student will research it thoroughly, present an annotated bibliography, and present an oral report of the topic, utilizing visual material in his presentation. The student will then present a research paper concerning his topic. PREREQ: Graduate standing.

Master of Science in Education—Earth Science Emphasis

The curriculum for the Master of Science in Education, Earth Science emphasis, stresses current developments in the earth sciences discipline. In addition to subject matter knowledge emphasis is placed on the varied methods that can be used for teaching earth science. Because of the varied backgrounds of candidates the course offerings are designed to allow flexibility in planning individual programs. A preliminary examination, oral or written, will be administered to each candidate.

Required courses include the Graduate Core, and a thesis, project, or additional courses as determined by the committee. All other courses to be taken in the degree program are planned by the student and the graduate committee. A final comprehensive oral or written examination over course work and the thesis or project is required.
Course Offerings

See page 20 for definition of course numbering system

GO GEOL0GY

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

GO 403G ENGINEERING GEOL0GY (2-3-3)(S)(Field trip required).
GO 412G HYDROGEOLOGY (3-0-3)(S)(Field trip required).
GO 460G VOLCANOLOGY (2-0-2)(F)(Field trip)(odd years).
GO 471G REGIONAL FIELD STUDY (1, 2, or 3 CR)(F/S/U).

Graduate

GO 500 GREAT MYSTERIES OF THE EARTH (3-0-3)(F). The Earth abounds with mysteries that are seemingly related to natural phenomena. Lost continents, UFO’s, Loch Ness Monster, Bermuda Triangle, Big Foot, ancient astronauts, water witching, and other mysteries, both real and contrived as discussed in terms of evidence and interpretation in the context of natural laws and processes. Techniques of skeptical inquiry and the scientific method are applied to develop critical thinking. PREREQ: Graduate standing and PERM/INST.

GO 511 ENVIRONMENTAL GEOL0GY (3-0-3)(F). 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 filling out necessary forms. PREREQ: GO 221 or PH 220.

GO 514 ADVANCED structural geology (2-3-3)(F)(Alternate years). Geometric, kinematic and dynamic analysis of plutonic rocks and metamorphic tectonics. Structural elements in plutons, their formation and interpretation as indicators of the tectonic environment during emplacement. Mesoscopic and microscopic study of rock fabrics, the mechanisms and processes of their formation and deformation, and their use as kinematic and strain indicators. PREREQ: GO 310, GO 314, GO 323 and GO 324 or PERM/INST.

GO 523 ADVANCED IGNEOUS PETROLOGY (3-0-3)(F)(Odd years). A study of igneous rocks with emphasis on their origin and the processes responsible for their diversity. Exercises will make use of the petrographic microscope and the departmental computer facilities. A field trip is required. PREREQ: GO 323, GO 324, C 131.

GO 531 REGIONAL GEOLOGY OF NORTH AMERICA (3-0-3). 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 or PERM/INST.

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

GO 571 GEOCHEMISTRY (3-0-3). 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 (0-3-0). 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 0-3). 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 thesis report suitable for presentation at a meeting of Earth Science professionals is required. PREREQ: Admission to candidacy.

GO 596 DIRECTED 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 (3-0-3)(F/S). This is a survey of humanity’s efforts to understand the natural world. “Ancient Science” is presented as an introduction to the evolution of science since the 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 .... 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 .... 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

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

   b. Elective courses—Additional courses planned by the student and his/her graduate committee to meet program requirements.

3. Additional Information

   a. Credit in Workshop (594 or 599) is limited to a total of 3 credits to be applied to partial fulfillment of the requirements for the emphasis in Mathematics.

   b. Some students may be required to remove deficiencies before admission to candidacy. Students with strong undergraduate mathematics may apply to challenge, waive, or replace parts of the emphasis requirements.

   c. Students considering this program should consult with the Chairman of the Mathematics Department. Enrollment in graduate courses has been such that completion dates for this program cannot be guaranteed.

Course Offerings

See page 20 for definition of course numbering system

M MATHEMATICS

Undergraduate

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

M 406G THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (3-0-3)(F).
M 456G LINEAR PROGRAMMING (4-0-4)(S).

Graduate

M 503 THE TEACHING OF ALGEBRA (3-0-3). Contemporary approaches to teaching secondary school algebra; treatment of selected topics in modern algebra; methods and materials; research relevant to the teaching of algebra. PREREQ: M 302
M 504 THE TEACHING OF GEOMETRY (3-0-3). Contemporary approaches to teaching secondary school geometry; treatment of selected topics in geometry; methods and materials; research relevant to the teaching of geometry. PREREQ: M 311
M 505 FOUNDATIONS OF MATHEMATICS (3-0-3). The axiomatic method and its role in modern mathematics. The role of the theories of sets and groups in the development of mathematics. Modern philosophies of mathematics. PREREQ: M 302 or PERM/INST.

M 511 GENERAL TOPOLOGY (3-0-3). Set separation axioms, topologies, connectedness, compactness, generalized convergence, continuity, product spaces. PREREQ: M 401 or M 501 or PERM/INST.

M 541-542 ABSTRACT ALGEBRA I, II (3-0-3). Mappings, the integers, groups, subgroups, morphisms, rings, integral domains, polynomial rings, fields, field extensions. PREREQ: M 502 or PERM/INST.

M 547 HISTORY OF MATHEMATICS (3-0-3). The course is designed for mathematics teachers in the secondary school. The course consists of two parts: the first part traces the development of algebra, geometry, analytic geometry and calculus to the 19th century; the second part gives a brief introduction to some of the developments in mathematics during the last century. PREREQ: PERM/INST.

M 561 MATHEMATICS FOR OPERATIONS RESEARCH (4-0-4)(F/S). The mathematics techniques used to solve problems involving several variables. Linear systems, matrices, linear programming with the simplex method, differential and integral calculus with emphasis on applications in management decision situations. PREREQ: PERM/INST.

M 564 MATHEMATICAL MODELING (3-0-3)(SU). Introduction to mathematical modeling through case studies. Deterministic and probabilistic models; optimization. Examples will be drawn from the physical, biological, and social sciences. A modeling project will be required. PREREQ: M 361 and CS 122 or PERM/INST.

M 571 MATHEMATICS CURRICULUM 7-12 (3-0-3). The history of the 7-12 mathematics curriculum content special problems, and trends in mathematics programs; organization of the curriculum. Study of reports and recommendations; curriculum development projects. PREREQ: At least one year's experience teaching in secondary school mathematics.

M 591 PROJECT (May be taken for 3 to 6 credits). A project may include, but is not limited to, a library research paper, educational research or written curriculum with teaching materials. PREREQ: The student must be admitted to candidacy.

M 593 THESIS (May be taken for 3 to 6 credits). Original mathematical research or a new interpretation or novel exposition of existing mathematics. Course is arranged with supervising faculty member. PREREQ: Admission to candidacy.

M 598 SEMINAR IN MATHEMATICS (3-0-3). The content will vary within a format of student presentation and discussion of 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 her/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 in the area of music education. The results of these examinations will be interpreted by the Music Department faculty. The student's advisor will consult with the student about action towardsremedying any deficiencies. Any undergraduate course used to make up the deficiencies will not count toward the Master's Degree. A student who has any deficiencies will be granted Provisional Status in the graduate program; when all deficiencies are removed he may then seek Regular Status. A description of the material covered on these examinations is available from the Music Department.

1. Required Courses

   Graduate Core .................................................. 6
   MU 503 Intro to Research Materials in Music Educ .......................... 3
   MU 570 New Developments in Music Education ................................ 3
   MU 593 Thesis or ME 591 Project ...................................... 6

   Additional Course Work

   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 from a list of 20 submitted by the student.

2. Elective Courses

   a. All regular and provisional graduate students will be required
   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 from a list of 20 submitted by the student.

Graduate College

Course Offerings

See page 20 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. See undergraduate Private Lesson Performance Studies course numbering system for explanation of course numbers.

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), 542 (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)(F/S). A general chorus open to all interested students. The format of the classes will be related to the size of the enrollment, i.e., choir, chamber ensemble or collegiate 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 up to 4 credits maximum. PREREQ: PERM/INST.

ME 520 INSTRUMENTAL ENSEMBLE (0-1)(F/S). A performing group or groups will be formed, depending on the size of enrollment, such as trios, quartets, band or orchestra. Opportunities to perform ensemble music of various kinds will be given. Emphasis will be placed on techniques of ensemble playing, interpretation, 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)(F).

MU 424 SIXTEENTH CENTURY COUNTERPOINT (3-0-3)(F).

Graduate

MU 501 HISTORY OF MUSIC IN THE UNITED STATES (3-0-3)(F). Designed for either the non-specialist or specialist in music, this course will survey the role which music has played in the development of American culture. Among the topics covered will be early New England music, music of the Blacks, Indians, and other ethnic groups. Social and historical interrelationships with music will be examined and discussed.

MU 503 INTRODUCTION TO RESEARCH MATERIALS IN MUSIC EDUCATION (3-0-3)(F). Designed for the secondary school music 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 505 SEMINAR IN CHORAL MUSIC: PERFORMANCE PRACTICES AND STYLES (3-0-3)(F/S). 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)(F/S). Analysis and study of works from the Baroque through the present era. Particular attention will be paid to performance practices of ornamentation, style, tempo, scoring, dynamics, etc. Band transcriptions also included.

MU 511 20TH CENTURY MUSICAL STUDIES (3-0-3)(F/S). A study of 20th century composition techniques and performance practices through analysis, discussion of aesthetics, listening, performance, and creative writing. Contemporary techniques (and their notation), such as quartal harmonies, serialization, improvisation, electronic music, microtones, and multi-media, will be explored and their application to the secondary music classroom will be discussed.

MU 561 ADVANCED CONDUCTING (3-0-3)(F/S). Designed for secondary music teachers, this course provides opportunity to discover and analyze technical conducting problems, both instrumental and choral, in music of the various historical eras, which forms a significant part of the secondary school repertoire.

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

MU 571 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING MUSIC IN THE ELEMENTARY SCHOOL (3-0-3)(F/S). Designed for the general classroom teacher or music specialist, the course deals with old and new approaches to teaching music in the classroom, teaching materials, current research on problem singers, creative musical activities, and the development of music teaching skills. PREREQ: MU 371 or PERM/INST.

MU 573 ADVANCED METHODS AND TECHNIQUES FOR THE INSTRUMENTAL INSTRUCTOR (3-0-3)(F/S). A study of causes and solutions for problems occurring in the instrumental rehearsal. Areas to be covered include instrumental methods and techniques, organization and repertoire planning.

MU 574 ADVANCED METHODS AND TECHNIQUES FOR THE CHORAL INSTRUCTOR (3-0-3)(F/S). A study of causes and solutions for problems occurring in the choral rehearsal. Areas to be covered include vocal methods and techniques, organization and repertoire planning.

MU 575 ADMINISTRATION OF SCHOOL MUSIC (3-0-3)(F/S). A seminar in problems of music supervision and administration covering areas such as budget, scheduling, curriculum, personnel and philosophy.

MU 591 PROJECT (0-V-3). Details for the culminating project can be found in requirements for Master's degree in secondary education, music emphasis.

MU 593 THESIS (0-V-6). A scholarly paper embodying results of original research which are used to substantiate a specific view.

Graduate Credits In Chemistry

There are graduate level courses available that may be offered on special request by the department of Chemistry. Descriptions of these courses follow. In addition, there are some undergraduate chemistry courses for which graduate credit may be earned. These are listed below, but complete course descriptions are found with the Department of Chemistry listing.

C CHEMISTRY

See page 20 for definition of course numbering system

Undergraduate

C 401G-402G ADVANCED INORGANIC CHEMISTRY (3-0-3)(F).
C 411G INSTRUMENTAL ANALYSIS (2-4-4)(S).
C 422G ADVANCED TOPICS IN CHEMISTRY (3-0-3).
C 431G INTRODUCTION TO BIOCHEMISTRY (3-0-3)(F).
C 432G BIOCHEMISTRY LABORATORY (0-3-1)(S).
C 433G BIOCHEMISTRY (3-0-3)(S).
C 446G SPECTROMETRIC IDENTIFICATION (2-3-3)(S).
C 443G ADVANCED CHEMICAL PREPARATION LABORATORY (1-3-2)(S).

Graduate

C 501 HISTORY OF CHEMISTRY (3-0-3). The study of the development of chemistry from its early stages through alchemy. Emphasis will be placed on the development of chemical concepts, the important contributors to these concepts and the interrelationships between chemistry and the general course of history. PREREQ: Two years of college chemistry and one year of history or PERM/INST. Offered on demand.

C 503 SPECTROSCOPY (3-0-3). Concepts and practical usage of ultraviolet, infrared, nuclear magnetic, mass spectroscopy. Emphasis will be placed on use of instruments and interpretation of spectra. Prior knowledge of spectroscopy not required. PREREQ: Eight hours of general chemistry and six hours of organic chemistry. Offered on demand.

C 509 CHEMISTRY OF LIFE PROCESSES (3-0-3). The course introduces the student to basic concepts of biochemistry associated with a coverage of current topics ranging from allied health field areas to environmental chemistry. Classroom demonstration material will be correlated with lecture material. PREREQ: One year of general chemistry and organic chemistry. Offered on demand.

C 511 ADVANCED ANALYTICAL CHEMISTRY (3-0-3). Stoichiometry involved in separations and instrumental methods of analysis. The course will be flexible in nature to adapt to the varied background of the expected students. PREREQ: Quantitative Analytical Chemistry of PERM/INST. Offered on demand.

C 515 NUCLEAR AND RADIOCHEMISTRY (3-0-3). Atomic and nuclear structure, radioactivity, nuclear reactions, radioactive decay laws, interaction of radiation with matter, detection chemistry. Offered on demand.

Master of Arts in English

College of Arts and Sciences

Applicants who have at least twelve semester credit hours of upper division work in English with a grade point of 3.0 in those courses and who meet general Graduate College requirements will be accepted as regular graduate students. Students who do not have the required upper division English work may be admitted on a provisional basis and will be advised what steps to take to qualify for regular status.

Program Requirements

The courses of study for the Master of Arts in English will consist of a minimum of 33 hours to be chosen by the students and their advisory committee from one of two alternatives.

1. An introductory seminar, twelve hours of graduate English courses and fifteen general graduate electives. At least nine hours of the English courses must be at the 500 level.

   E 500 .......................... 3
   Graduate English electives (except E 501) .................. 12
   Project or Thesis .................. 3
   *General Graduate electives (may include E 501) .......... 15
   TOTAL .......................... 33

2. An introductory seminar, fifteen hours of graduate English courses and fifteen general graduate electives and a comprehensive exam. At least nine hours of the English Courses must be at the 500 level.

   E 500 .......................... 3
   Graduate English electives (except E 501) .................. 15
   *General Graduate Electives (may include E 501) .......... 15
   Comprehensive Exam (Not credit related) .................. 0
   TOTAL .......................... 33

*Students wishing an Advanced Secondary Certificate should take at least 9 credits in the College of Education.

The introductory Seminar (E 500) is prerequisite to other 500 level seminars. However, with the consent of the student's committee, the student may concurrently take another seminar. With the exception of E 501 and E 597, all seminars will be in specified areas of American and British literature and linguistics, though they may cover influence from other literatures. A maximum of 6 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 20 for definition of course numbering system

E ENGLISH

Undergraduate

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

E 427G MODERN BRITISH AND AMERICAN POETRY (3-0-3)(F/S).

E 488G METHODS AND THEORIES OF LITERARY CRITICISM (3-0-3)(S).

Graduate

E 500 INTRODUCTORY SEMINAR (3-0-3)(F/S). An introduction to bibliography and orientation to sources of information. Students research a concept or problem in literature or writing under supervision. PREREQ: Admission to graduate program or PERM/CHAIR.

E 501 THE TEACHING OF WRITING (3-0-3)(F/S). Theories and methods of teaching writing for experienced teachers. Special emphasis on new discoveries about the learning process in writing courses and in the teacher's role in helping individual students. PREREQ: E 301, E 500, and teaching experience or PERM/CHAIR.

E 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/CHAIR.

E 510 MAJOR AUTHOR (3-0-3)(F/S). A consideration of minor and major artistic creation by 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, his 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/CHAIR.

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/CHAIR.

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

E 540 MYTH IN LITERATURE (3-0-3)(F/S). An exploration of the use of myth in literature as a source of content and structure. The nature and working of myth and the way it enters conscious creation of art. Themes such as the quest, the initiation, the Adamic myth in American literature, and of myths in the works of major authors may be explored. PREREQ: E 500 or PERM/CHAIR.

E 550 LITERATURE AND CULTURE (3-0-3)(F/S). The interaction between a body of literature and the social, economic, and political forces that characterize the culture in which it originates. The influence of culture on literary form and content. PREREQ: E 500 or PERM/CHAIR.

E 560 FOLKLORE (3-0-3)(F/S). Materials selected from oral tradition and culture with attention to aspects of collecting, classifying, comparing, analyzing and archiving. Theories of folklore composition, transmission, and function will be related to the occurrence of folklore. PREREQ: E 500 or PERM/CHAIR.

E 570 LITERARY MOVEMENTS (3-0-3)(F/S). A focus on a significant literary movement, the works of its major and minor contributors, its theories and its practice, its relation to its time, its place in literary history, its influence on writers past and present. PREREQ: E 500 or PERM/CHAIR.

E 581 LITERATURE FOR USE IN JUNIOR AND SENIOR HIGH SCHOOLS (3-0-3)(F). A literary content course for prospective teachers of secondary school English. Primary emphasis on critical reading of literature for adolescent in secondary school. Secondary emphasis on methods of analysis appropriate to students. All genres as well as classic and popular authors. PREREQ: E 102, two literature courses or PERM/CHAIR.

E 593 THESIS (V.00V). 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.

Master of Science in Exercise and Sport Studies

College of Education

Objectives

The objective of this program is to provide a scholarly approach to the academic discipline of exercise and sport studies. Along with the required core, students will elect an area of focus from the scientific or behavioral dimensions and culminate their study with some form of scholarly endeavor (project or thesis).

Degree Requirements

Master of Science in Exercise and Sport Studies

Core Requirements

15 Credits

Core Requirements

Functiona| 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

Research Tools

Advanced Statistical Methods P 405g ................ 6
Business Statistics DS 513 ......................... 3
Fund of Educational Research TE 551 ............... 3

Total

Electives

6-9 Credits

Exercise Physiology Lab PE 515 ...................... 3
Mechanical Anal of Motor Act PE 525 .............. 3
Sociology of Exercise & Sport PE 533 .............. 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

33

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

Course Offerings

See page 20 for definition of course numbering system

Undergraduate

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

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

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 will be included. Video analysis will be utilized.

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

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.
### Master of Science, Geophysics

#### College of Arts and Sciences

Boise State University offers a Master of Science degree in geophysics through the Department of Geology and Geophysics. The objective of the program is to prepare students for professional employment and for geoscience study at the Ph.D. level. The degree requires 30 total credits distributed as follows: 12 graduate geophysics course credits; 12 credits in approved science, engineering, or business courses; and 6 thesis research credits leading to an approved thesis. Current research emphases at BSU are in high-resolution geophysical methods, petroleum geophysics, geothermal systems, earthquake seismology and seismic hazards, computer-aided interactive interpretation, and studies of crustal deformation.

The BSU Master of Science program in geophysics interacts cooperatively with the University of Idaho (UoI) Master of Science program in geophysics through the joint listing of graduate geophysics courses, the application of BSU graduate geophysics courses for UoI credit, and the application of UoI graduate geophysics courses for BSU credit. Cooperation is extended to Idaho State University (ISU) in that up to 12 credits earned in approved courses at ISU can be applied to a Master of Science in geophysics at BSU or UoI. In addition, faculty at BSU, UoI, and ISU may form joint supervisory committees when expertise from outside of the student’s resident institution is judged to be beneficial. These cooperative efforts by BSU, UoI, and ISU add flexibility and geographic accessibility to graduate education in geophysics within Idaho.

**Admission Criteria:** Applicants should have a BS or equivalent degree in one of the following fields: geophysics, geology, hydrology, physics, 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) 385-3903.

**Graduate Assistantships:** Current information on graduate assistantships is available from the Coordinator of the Geophysics Graduate Program. (Dr. John R. Pelton, Office: (208) 385-3640.)
Supervisory Committee: Each admitted student will be assigned a supervisory committee whose purpose is to approve the program of courses and the final thesis. The supervisory committee consists of at least three members: a chairman from BSU who will suggest an appropriate program of courses and guide the thesis research, and at least two members chosen in any combination from BSU, Uol, ISU, or other institution (selection based on a direct interest in the student's research). The Coordinator of the Geophysics Graduate Program will serve as advisor to each new student until a supervisory committee can be assigned.

Credit Requirements: The BSU Master of Science in geophysics requires 30 semester credits distributed as follows:

A. 12 credits in BSU GP 500-level geophysics courses (see selection below).
B. 6 credits for research leading to a written thesis (BSU GP 593).
C. 12 additional credits in courses approved by the supervisory committee (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 requirement C may be satisfied with transfer credits from Uol and/or ISU. Transfer credits may not be used for requirements 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 Course Offerings

Graduate Geophysics

See page 20 for definition of course numbering system

GP GEOPHYSICS

See appropriate department listing for detailed description of undergraduate courses (400G level) which may be taken for graduate credit.

GP 410G EXPLORATION WELL LOGGING (2-3-3)(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 GEOLGY AND GEOPHYSICS IN PETROLEUM, MINERAL AND GROUNDWATER EXPLORATION AND DEVELOPMENT (4-0-4)(F). Role of integrated geological and geophysical methods in the design and implementation of natural resource exploration and development projects. Emphasis depends on class interests, but typical examples will be drawn from petroleum, mineral, and groundwater industries. Requires extensive outside reading and study of case histories. Project and report required. PREREQ: PERM/INST.

GP 515 STRATIGRAPHIC INTERPRETATION OF SEISMIC DATA (3-0-3)(S). Seismic sequence and seismic facies analysis, isochronous reflections, seismic stratigraphy of depositional systems, sea level cycles, seismic modeling, hydrocarbon indicators, lithology from velocity and seismic amplitude with offset, use of shear waves and vertical seismic profiling. Interpretation project involving seismic modeling. PREREQ: GP 330G.

GP 520 ENGINEERING GEOPHYSICS (3-0-3)(F). Geophysical techniques applied to the evaluation of shallow subsurface structure and physical properties at engineering, industrial, waste disposal, and construction sites. Application of high-resolution geophysical methods to problems in seismic hazards, groundwater, hazardous waste, land subsidence, construction of critical facilities and landslides. Field and laboratory exercises. PREREQ: GP 301, GP 410G.


Uol 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 Isotopes ....................................... 3
Geoph/Geol 590 Photogeology .............................. 3
Geoph/Min 503 Stress Analysis ............................. 3
Geoph/Min 504 Advanced Rock Mechanics ................. 3

Master of Arts in History

School of Social Sciences and Public Affairs

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, $15.00 application processing fee and official transcripts of all undergraduate and graduate work. The transcripts are to be sent directly to the Boise State University Graduate Admissions office by the Registrar of 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 3.00, and have maintained a GPA of at least 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.

185
Graduate College

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
  - Free Electives ............................................... 9
  - Thesis (defended orally) HY 593 .......................... 6
- 33 hours with project
  - History .......................................................... 21
  - Free Electives ............................................... 9
  - Project HY 591 .................................................. 3

Written or oral examination covering aspects of project and course work taken in the History Department toward the degree.

- 36 hours
  - History .......................................................... 3
  - Free electives ............................................... 12
  - Written examination covering course work taken in the History Department toward the degree.

Required Courses

HY 500 Historians and Historical Interpretation ........................................... 3
HY 580, 581 or 582 Seminar ................................................................. 3
HY 510-511 History of Western Thought OR ............................................. 3
HY 520 Sources of American Values ......................................................... 3
A maximum of six hours in 300G, G or 400G. History courses may be substituted for seminar work in the History offering. Elective courses are additional courses from History or allied fields as planned by the student and his/her graduate committee to meet program requirements.

Course Offerings

See page 20 for definition of course numbering system

HY HISTORY

Undergraduate

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

HY 334G UNITED STATES SOCIAL AND CULTURAL HISTORY (3-0-3)(F/S).
HY 423G EUROPEAN DIPLOMATIC HISTORY 1871-PRESENT (3-0-3)(F/S).

Graduate

HY 500 HISTORIANS AND HISTORICAL INTERPRETATION (3-0-3). A study of major historians and schools of historical interpretation from Ancient Greece to the twentieth century. Discussion concentrates in written history and the problems of interpretation. Oral and written participation and a major paper are required. PREREQ: admission to graduate program or PERM/CHMN.

HY 501 HISTORY OF SCIENCE (3-0-3). A survey of man's efforts to understand the natural world from the ancient world to the present including pre-scientific assumptions, the evolution of science since the 16th century, and the development of modern scientific thought. May be taken for either HY or GS credit, but not both.

HY 502 TEACHING HISTORY IN SECONDARY SCHOOLS (3-0-3). An inquiry into the philosophy of history, a consideration of the relationship on the discipline to other social studies and other fields of knowledge, and survey of various techniques available to teachers of history at the secondary school level. PREREQ: Admission to the graduate program or PERM/CHMN.

HY 510 HISTORY OF WESTERN THOUGHT (3-0-3). History of Western thought beginning with the Ancient Near East to the Renaissance and Reformation. A study of intellectual and cultural trends reflected in Western religious and philosophical literature. PREREQ: Admission to the graduate program or PERM/CHMN.

HY 511 HISTORY OF WESTERN THOUGHT (3-0-3). History of Western thought from 1500 to the present. A study of intellectual and cultural trends reflected in Western religious and philosophical literature. PREREQ: Admission to the graduate program or PERM/CHMN.

HY 520 SOURCES OF AMERICAN VALUES (3-0-3). The origins of American thought and culture, the Puritan mind, enlightenment ideas, the intellectual climate of the new nation, and an exploration of American values on the eve of the Civil War; laissez-faire capitalism thereafter and the reaction to industrialism. PREREQ: Admission to graduate program or PERM/CHMN.

HY 580 GRADUATE SEMINAR IN U.S. HISTORY (3-0-3). A study of the principal themes or problems with well-defined periods of particular fields of U.S. History. Emphasis will be placed in reading, discussion, writing and research. Reports and discussion on various aspects of the controlling subject will be performed by the students with the assistance of the instructor. PREREQ: Admission to the graduate program or PERM/CHMN.

HY 581 GRADUATE SEMINAR IN EUROPEAN HISTORY (3-0-3). Critical analysis of source materials and historical literature on a topic of restricted scope in European history. PREREQ: Admission to graduate program or PERM/CHMN.

Master of Arts or Science in Interdisciplinary Studies

College of Arts and Sciences

General Information

Boise State University offers a Master of Arts/Master of Science degree program in Interdisciplinary Studies. In consultation with faculty, students may combine courses from more than one school or college or from more than one department to create an individualized pattern of educational experience. The program is designed for mature students who wish to continue education at the graduate level but do not seek specialized training concentrated in a major area. This program is not a substitute for the traditional master's degree; rather, it is intended for students with broader interests in several fields or those whose career goals do not match fully with a single identifiable academic unit or department. Emphasis is placed on continued intellectual and cultural development in a constantly changing society where new career interests may extend over several traditional specializations.

The Interdisciplinary Studies Program is administered by the Graduate College, housed in the College of Arts and Sciences and directly supervised by the Director of Interdisciplinary Studies who is the Associate Dean of that College. A university-wide Interdisciplinary Studies Committee consisting of the Graduate Dean and one member from each academic School of College oversees the program. The Director of Interdisciplinary Studies serves as the chairperson of that committee. Each student in the program will also have a graduate committee composed of three faculty members from the disciplines making up the interdisciplinary program. The student's graduate committee will have the responsibility of helping the student select his or her particular course of study and will recommend to the Interdisciplinary Studies Committee that it be accepted as the student's formal Plan of Study. The Interdisciplinary Studies Committee shall be responsible for approving the members of the student's graduate committee and approving the student's plan of study.

Admission Requirements

1. File an application for admission to the Graduate College in room MG 118, and request official transcripts from each institution attended previously to be sent directly to the Graduate Admissions Office.
2. The standard admission policy for applicants to the BSU Graduate College will be followed.
3. The applicant must submit a writing portfolio to the Interdisciplinary Studies Degree Program to the Director of Interdisciplinary Studies in room SN 106.
4. Have Graduate Record Exam scores forwarded to the Graduate College.
5. The applicant must have an undergraduate cumulative GPA of 3.00.
6. The applicant must submit to the Director of Interdisciplinary Studies a one to two page written justification of why the courses in his or her Degree Plan are included in the Plan and how they will enable the applicant to accomplish identified intellectual, professional, or vocational goals.
Degree Requirements

Each program is developed individually according to the student’s interests and background but must be intellectually defensible and clearly interdisciplinary in nature. The following must be incorporated into the program:

1. Course work must be selected from a minimum of two academic areas.
2. As many as 11 credits of 300-400g or G courses may be applied toward the program.
3. Courses may not be challenged for credit; if comparable content can be demonstrated, other courses will be substituted. No more than 9 transfer credits will be accepted toward the program.
4. The degree will consist of a total of 33 credits, of which no more than 16 credits may be earned in the College of Business. Students may select from a thesis/project or from a written examination option. The thesis/project will carry 6 credits.
5. For those students selecting the examination option, the student’s graduate committee will draw up the examination questions. Following the written examination, the student will meet with the committee for an oral review of the results.
6. For students selecting the thesis/project option, upon completion of the work, the student will meet with his or her committee for a final review of the work.
7. The thesis/project option and the examination option must both require the student to draw critically upon the two or more disciplines studied and to integrate disciplinary insights.
8. All work offered toward the MA/MS Degree Program in Interdisciplinary Studies must be completed within a period of seven academic calendar years.

Procedures

Following an interview, the Director of Interdisciplinary Studies will assist the students in forming a graduate committee. The student will develop the program with the committee; the Interdisciplinary Studies Committee (composed of one representative from each academic College or School and the Graduate Dean) will judge whether the plan is in keeping with the policies established, and approve said plan for acceptance for the degree. Revisions to the plan of study must be approved by the student’s graduate committee chairperson, the Director of Interdisciplinary Studies, and the Graduate Dean.

Master of Public Affairs

School of Social Sciences

and Public Affairs

In 1984 the State Board of Education designated Boise State University as the primary emphasis institution for public affairs education within the State of Idaho. The Master of Public Affairs program is an important component of BSU’s public affairs commitment.

The purpose of the MPA program is to prepare individuals for positions of leadership in the public sector. Through the MPA program, students enhance their understanding of policy-making and administrative processes in governmental and other public affairs organizations. As a result, they are able to enrich their own professional development as administrators, and to increase their capacity to serve the public effectively. The Program offers three “tracks” toward the MPA degree: (1) general public administration, (2) emphasis in Human Services Administration, and (3) emphasis in Criminal Justice Administration.

The MPA Program originally was established in 1975 as an inter-university cooperative graduate program in public administration by Boise State University, Idaho State University, and the University of Idaho. Because of this cooperative arrangement, each participating university has agreed to accept the transfer of MPA credits earned at the other two participating institutions.

Admission to the MPA Program

Persons who wish to enter the MPA Program must submit a graduate application to the Graduate Admissions Office. After submitting the graduate application, applicants receive a certificate of admission to enroll in courses at Boise State University. This certificate of admission is a prerequisite to admission into the MPA program, but does not by itself guarantee admission into the MPA Program. (The student is advised to consult the Graduate College section of this catalog for more detail, including requirements for admission to the Graduate College.)

All applicants to the MPA Program must meet the following requirements prior to enrollment in MPA courses:

1. Possession of the certificate of admission from the Graduate Admissions Office.
2. Possession of a baccalaureate degree from an accredited institution.
3. Demonstration of satisfactory academic competency by attaining an overall GPA of 3.0 and a minimum combined 1000 on the Graduate Record Examination (GRE) verbal and quantitative sections.
4. The degree will consist of a total of 33 credits, of which no more than 16 credits may be earned in the College of Business. Students may select from a thesis/project or from a written examination option. The thesis/project will carry 6 credits.
5. For those students selecting the examination option, the student’s graduate committee will draw up the examination questions. Following the written examination, the student will meet with the committee for an oral review of the results.
6. For students selecting the thesis/project option, upon completion of the work, the student will meet with his or her committee for a final review of the work.
7. The thesis/project option and the examination option must both require the student to draw critically upon the two or more disciplines studied and to integrate disciplinary insights.
8. All work offered toward the MA/MS Degree Program in Interdisciplinary Studies must be completed within a period of seven academic calendar years.

Procedures

Following an interview, the Director of Interdisciplinary Studies will assist the students in forming a graduate committee. The student will develop the program with the committee; the Interdisciplinary Studies Committee (composed of one representative from each academic College or School and the Graduate Dean) will judge whether the plan is in keeping with the policies established, and approve said plan for acceptance for the degree. Revisions to the plan of study must be approved by the student’s graduate committee chairperson, the Director of Interdisciplinary Studies, and the Graduate Dean.

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All applicants to the MPA Program must meet the following requirements prior to enrollment in MPA courses:

1. Possession of the certificate of admission from the Graduate Admissions Office.
2. Possession of a baccalaureate degree from an accredited institution.
3. Demonstration of satisfactory academic competency by attaining an overall GPA of 3.0 and a minimum combined 1000 on the Graduate Record Examination (GRE) verbal and quantitative sections.
4. The degree will consist of a total of 33 credits, of which no more than 16 credits may be earned in the College of Business. Students may select from a thesis/project or from a written examination option. The thesis/project will carry 6 credits.
5. For those students selecting the examination option, the student’s graduate committee will draw up the examination questions. Following the written examination, the student will meet with the committee for an oral review of the results.
6. For students selecting the thesis/project option, upon completion of the work, the student will meet with his or her committee for a final review of the work.
7. The thesis/project option and the examination option must both require the student to draw critically upon the two or more disciplines studied and to integrate disciplinary insights.
8. All work offered toward the MA/MS Degree Program in Interdisciplinary Studies must be completed within a period of seven academic calendar years.

Procedures

Following an interview, the Director of Interdisciplinary Studies will assist the students in forming a graduate committee. The student will develop the program with the committee; the Interdisciplinary Studies Committee (composed of one representative from each academic College or School and the Graduate Dean) will judge whether the plan is in keeping with the policies established, and approve said plan for acceptance for the degree. Revisions to the plan of study must be approved by the student’s graduate committee chairperson, the Director of Interdisciplinary Studies, and the Graduate Dean.

Master of Public Affairs

School of Social Sciences

and Public Affairs

In 1984 the State Board of Education designated Boise State University as the primary emphasis institution for public affairs education within the State of Idaho. The Master of Public Affairs program is an important component of BSU’s public affairs commitment.

The purpose of the MPA program is to prepare individuals for positions of leadership in the public sector. Through the MPA program, students enhance their understanding of policy-making and administrative processes in governmental and other public affairs organizations. As a result, they are able to enrich their own professional development as administrators, and to increase their capacity to serve the public effectively. The Program offers three “tracks” toward the MPA degree: (1) general public administration, (2) emphasis in Human Services Administration, and (3) emphasis in Criminal Justice Administration.

The MPA Program originally was established in 1975 as an inter-university cooperative graduate program in public administration by Boise State University, Idaho State University, and the University of Idaho. Because of this cooperative arrangement, each participating university has agreed to accept the transfer of MPA credits earned at the other two participating institutions.
1. One course from each of the following areas:
   a. Administrative Theory, Organization and Behavior
   b. Public Management Techniques
   c. Public Policy and Policy Analysis

2. One course from any two of the following areas:
   a. Administrative Law
   b. Intergovernmental Relations
   c. Community and Regional Planning
   d. Comparative Public Administration

3. A sixth course from any above core areas.

**“Area of Emphasis” Requirements:** Each MPA student is to complete a minimum of 12 additional semester credit hours. These credit hours are in the student’s “area of emphasis.” Areas of emphasis are concentrations or majors in the program. Presently, most MPA students select the General Public Administration area of emphasis. Students preferring the Criminal Justice or Human Services Administration emphasis may select that emphasis when there are staff resources available to offer courses in the emphasis.

Included in the 12 semester credit hours of the selected area of emphasis are the thesis project (6 semester credits) for the student in the thesis option and the directed research project (3 semester credits) for the student in the non-thesis option. Also, students usually take one or two “reading and conference” courses on subjects which are relevant to public administration and public policy.

Regardless of which option an MPA student chooses, the student is to select the specific courses in the areas of emphasis in consultation with the student’s academic advisor.

**Public Service Internship:** Those MPA students with less than one year of work experience in a public sector or other public affairs agency are to complete a “public service internship.” The internship is served in a government office at the local, state, or national level or in appropriate public affairs organization, such as private, nonprofit agency. The credits received for the internship are in addition to the 30 semester credit hours from the core area and area of emphasis. The internship comprises 6 semester credit hours.

The internship is meant to be a meaningful experience for both the MPA student and the organization in which the internship is served. Through the internship, students can further enhance their preparation for administrative work. At the same time, they are expected to make a valuable contribution to their assigned organizations. Therefore, the internship is usually served when the student is near completion of the MPA Program.

**Course Offerings**

See page 20 for definition of course numbering system

PA PUBLIC AFFAIRS COURSES

Undergraduate

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

PO 465G COMPARATIVE PUBLIC ADMINISTRATION (3-0-3/F/S).

Graduate

PO 501 PUBLIC POLICY PROCESS (3-0-3/F/S). Process of policy-making both within an agency and within the total governmental process, emphasizing policy and program planning, policy implementation and the value system of administrators.

PO 502 ORGANIZATIONAL THEORY (3-0-3/F/S). Socio-political analysis of theories and concepts of complex social organizations, their application to public administration and the inter-relationship between political science and sociological organizational theory.

PO 503 TECHNIQUES OF ANALYSIS IN PUBLIC AFFAIRS (3-0-3/F/S). An introduction to quantitative and qualitative data analysis with an emphasis on using descriptive and inferential statistics as tools in both public policy analysis and public program analysis. The use of quantitative analysis to support management decision-making is examined. Computers, especially microcomputers, will be used in the analysis of quantitative data.

PO 504 PUBLIC BUDGETING AND FINANCIAL ADMINISTRATION (3-0-3/F/S). Determination of fiscal policy, budgeting processes, and governmental forms of budgeting. Consideration of fiscal policy and processes in various program areas. Emphasis on the interface between technical and political processes.

PO 505 PUBLIC PERSONNEL ADMINISTRATION (3-0-3/F/S). An examination of the personnel/human resource management role as it has evolved in the public sector. The multiple responsibilities of personnel managers in the public sector will be examined, and the link between public policy and personnel management will be identified.

PO 510 PROGRAM EVALUATION (3-0-3/F/S). Application of social science research to administrative problems, including practical methods of gathering, analyzing, and interpreting data. Theory and basic techniques underlying quantitative analysis of public programs.

PA 511 QUANTITATIVE METHODS FOR PUBLIC DECISIONS (3-0-3/F/S). Methods for operations research and management science are used to analyze decisions as well as to plan and monitor program implementation. The usefulness of these methods in public sector and other public affairs organizations is considered.
PA 520 GOVERNMENT PLANNING (3-0-3)(F/S). A study of the theories, objectives, techniques, and problems of governmental planning within cities, metropolitan areas, and regions, as well as at the national level of government in the United States. A discussion of the planning profession and the politics of planning.

PA 521 INTERGOVERNMENTAL RELATIONS (3-0-3)(F/S). Interunit cooperation and conflict in the American federal system and state-local relationships and metropolitan dispersal and integration. PREREQ: PO 101, 102, 303.

PA 522 POLICY ISSUES AND THE PUBLIC ADMINISTRATOR (3-0-3)(F). Appropriate, relevant topics dealing with public organization and administrative theory and policy analysis.

PA 530 ADMINISTRATIVE LAW (3-0-3)(F/S). Sources of power and duties of administrative agencies, rules and regulations made by agencies through investigation and hearings, judicial decisions and precedents relating to administrative activities. PREREQ: PO 303 or PERM/INST.

PA 531 LABOR RELATIONS LAW IN THE PUBLIC SECTOR (3-0-3)(F/S). A case study of the trends and development of the legal context of labor-management relations in the public sector, including collective bargaining relationships, management rights and responsibilities, political and civil rights of public employees, and alternative modes of dispute resolution. Collective bargaining and grievance exercises will be conducted.

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

PO 580 ADMINISTRATIVE THEORY, ORGANIZATION AND BEHAVIOR
PA 581 TECHNIQUES AND SKILLS
PA 582 PUBLIC POLICY AND POLICY ANALYSIS
PA 583 ADMINISTRATIVE LAW AND ETHICS
PA 584 EXECUTIVE AND ADMINISTRATIVE PROCESS
PA 585 INTERGOVERNMENTAL RELATIONS
PA 586 COMMUNITY AND REGIONAL PLANNING
PO 587 COMPARATIVE PUBLIC ADMIN. AND PLANNING SYSTEMS
PA 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 director of the MPA Program.

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

PA 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.

PA 596 DIRECTED RESEARCH (1-3 credits). A special project undertaken by the MPA student as advanced tutorial study in a specialized area according to the needs and interests of the student. Course embodies research, discussions of the subject matter and procedures with a designated professor and a documentary paper covering the subject of the independent study.

PA 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 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 593 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 598 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.

Master of Science in Raptor Biology

College of Arts and Sciences

General Information

The Master of Science degree program in Raptor Biology is designed for students, holding or expecting a bachelor degree in one of the disciplines of the biological sciences, to enhance their knowledge and understanding of raptor biology and ecology. The affiliation of the program with the World Center for Birds of Prey, affords students a unique opportunity to study the techniques of captive breeding and release of rare and endangered birds of prey. In addition, the Snake River Birds of Prey Natural Area, with the largest concentration of nesting raptors in North America, provides a unique circumstance to study raptor biology and ecology.

Admission Requirements

1. Submit a graduate application along with the $15.00 matriculation fee to the Graduate Admissions Office. Please submit the application PRIOR to submitting any additional items.

2. Have the Registrar(s) of ALL post-secondary institutions attended send official transcripts.

3. Submit three letters of recommendation.

4. Have Graduate Record Exam scores forwarded.

All of the above materials are to be sent directly to the Graduate Admissions Office, Boise State University, 1910 University Drive, Boise, ID 83725. In addition, the applicant should send a cover letter discussing the applicant's professional goals and his or her reasons for wishing to study raptor biology, directly to the Biology Graduate Studies Coordinator.

REGULAR STATUS may be granted to those students who submit the above materials if they have maintained a 2.75 GPA over the last two years of undergraduate study and average a 50 percentile in verbal, quantitative, and analytical portions of the GRE.

PROVISIONAL STATUS may be granted to those applicants who do not meet the requirements for regular status or who may required to complete additional requirements as determined by the Biology Department.

Students may apply for admission at any time; however, applications must be completed by March 1 (for Fall Semester admission) in order to be considered for assistantships. Other forms of financial aid, such as loans or the College Work Study Program, are available to graduate students. Prospective students should contact the Financial Aid Office and consult the BSU catalog. Enrollment in the program is limited.

Degree Requirements

Once accepted, the student and the student's major professor (thesis advisor) select two additional faculty to comprise the student's thesis committee. This committee reviews the student's program and thesis.
The committee also determines if there are any specific academic deficiencies that the student must meet in addition to the M.S. degree requirements.

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>
<tr>
<td>Biometry B 501</td>
<td>4</td>
</tr>
<tr>
<td>Population and Community Ecology B 502</td>
<td>3</td>
</tr>
<tr>
<td>Raptor Ecology B 506</td>
<td>3</td>
</tr>
<tr>
<td>Seminar B 598 (1 credit)</td>
<td>2</td>
</tr>
<tr>
<td>Thesis B 593</td>
<td>6</td>
</tr>
<tr>
<td>Directed Research B 596                        (6 credits maximum in a semester)</td>
<td>1-9</td>
</tr>
<tr>
<td>Mycology BT 330</td>
<td>4</td>
</tr>
<tr>
<td>Advanced Writing E 401</td>
<td>3</td>
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<tr>
<td>Mathematical Modeling M 564</td>
<td>3</td>
</tr>
<tr>
<td>Organizational Theory MC 540</td>
<td>3</td>
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<tr>
<td>Public Policy Formulation &amp; Implementation PO 520</td>
<td>3</td>
</tr>
<tr>
<td>Entomology Z 305G</td>
<td>4</td>
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<tr>
<td>Ornithology Z 341G</td>
<td>3</td>
</tr>
<tr>
<td>General &amp; Comparative Physiology Z 409G</td>
<td>4</td>
</tr>
<tr>
<td>Mammalogy Z 421G</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 committee members. A budget must be included as part of the research proposal. During the second semester, the student must present a seminar on the proposed research which may consist of a literature review, current research, or progress on the research project.

Course Offerings

See page 20 for definition of course numbering system

Undergraduate

BIOLOGY

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

BOTANY

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

ZOOLOGY

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

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

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

Z 421G MAMMALOGY (2-3-3)(S).

Graduate

BIOLOGY

B 501 BIOMETRY (4-0-4)(F). An application of statistical methods to problems in the biological sciences. Basic concepts of hypothesis testing; estimation and confidence intervals; t-tests and chi-square tests. Linear and nonlinear regression theory and analysis of variance. Techniques in multivariate and nonparametric statistics. PREREQ: M 111 or equivalent, or PERM/INST.

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

B 506 RAPTOR ECOLOGY (3-0-3)(S). Theoretical ecology as applied to birds of prey. Strategies of reproduction, habitat selection, foraging and spacing; theory of competition and predator-prey interactions; niche theory and community structure; raptor management. PREREQ: B 423 or equivalent, or PERM/INST.
## Boise State University Faculty

### Full-Time Official Faculty as of February, 1989

**NOTE:** The date in parentheses is the year of first appointment.

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Degree</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen John W.</td>
<td>Assistant Professor, English; A.M., University of Washington</td>
<td>(1971)</td>
<td></td>
</tr>
<tr>
<td>Affleck Stephen B.</td>
<td>Associate Professor, Engineering; Ph.D., Iowa State University</td>
<td>(1981)</td>
<td></td>
</tr>
<tr>
<td>Ackley Louise</td>
<td>Professor, Physics; Ph.D., Harvard University</td>
<td>(1971)</td>
<td></td>
</tr>
<tr>
<td>Allen Robert L.</td>
<td>Program Head; Associate Instructor; Industrial Mechanics/Automation; B.A., Boise State University</td>
<td>(1976)</td>
<td></td>
</tr>
<tr>
<td>Anderson Jeffrey M.</td>
<td>Director, Clinical Education, Respiratory Therapy; Instructor, Respiratory Therapy; B.S., University of Wisconsin, Madison</td>
<td>(1986)</td>
<td></td>
</tr>
<tr>
<td>Ault John W.</td>
<td>Assistant Professor, Mathematics; Ph.D., Michigan State University</td>
<td>(1970)</td>
<td></td>
</tr>
<tr>
<td>Anooshian Linda James</td>
<td>Department Chair and Professor, Psychology; Ph.D., University of California, Riverside</td>
<td>(1988)</td>
<td></td>
</tr>
<tr>
<td>Ashworth, Lonny J.</td>
<td>Manager, Technical Division; Senior Instructor, Welding; Diploma, Boise State University</td>
<td>(1977)</td>
<td></td>
</tr>
<tr>
<td>Atlakson Philip</td>
<td>Associate Professor, Respiratory Therapy; M.Ed., College of Idaho</td>
<td>(1985)</td>
<td></td>
</tr>
<tr>
<td>Baker Robert</td>
<td>Assistant Professor, Theatre Arts; M.A., State University of New York, Binghamton</td>
<td>(1983)</td>
<td></td>
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<tr>
<td>Bain Craig E</td>
<td>Assistant Professor, Accounting; Ph.D., Texas A &amp; M</td>
<td>(1986)</td>
<td></td>
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<tr>
<td>Baker Charles W.</td>
<td>Assistant Professor, Biology; D.O.</td>
<td>(1968)</td>
<td></td>
</tr>
<tr>
<td>Baker Richard P.</td>
<td>Professor, Sociology; Ph.D., Washington State University</td>
<td>(1973)</td>
<td></td>
</tr>
<tr>
<td>Baldassarre Joseph A.</td>
<td>Associate Professor, Music; D.M.A., Case Western Reserve University</td>
<td>(1975)</td>
<td></td>
</tr>
<tr>
<td>Baldwin Philip</td>
<td>Program Head; Senior Instructor, Welding; M.Ed., University of Idaho</td>
<td>(1987)</td>
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<tr>
<td>Baldwin John B.</td>
<td>Professor, Music; Ph.D., Michigan State University</td>
<td>(1971)</td>
<td></td>
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<tr>
<td>Bainer Richard</td>
<td>Professor, Mathematics; Ph.D., University of Wisconsin</td>
<td>(1974)</td>
<td></td>
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<tr>
<td>Bammel Brad</td>
<td>Assistant Professor, Chemistry</td>
<td>(1988)</td>
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</tr>
<tr>
<td>Banks Richard C.</td>
<td>Chair, Chemistry, Department; Professor, Organic Chemistry; Ph.D., Oregon State University</td>
<td>(1968)</td>
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<tr>
<td>Barney Lloyd Dwayne</td>
<td>Assistant Professor, Finance; Ph.D., Texas A &amp; M</td>
<td>(1986)</td>
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<tr>
<td>Barnett Gwynn W.</td>
<td>Assistant Professor, Biology; D.O.</td>
<td>(1968)</td>
<td></td>
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<tr>
<td>Barsness Wyll D.</td>
<td>Professor, Psychology; Ph.D., University of Minnesota</td>
<td>(1968)</td>
<td></td>
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<tr>
<td>Bauwens Jeanne</td>
<td>Assistant Professor, Teacher Education; Ed.D., University of Idaho</td>
<td>(1984)</td>
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<tr>
<td>Becchar Marc Joseph</td>
<td>Graduate Program Coordinator, Raptor Biology; Professor, Biology; Ph.D., Washington State University</td>
<td>(1983)</td>
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<tr>
<td>Bella Jeanne Marie</td>
<td>Associate Professor, Music; Ph.D., University of Kentucky</td>
<td>(1983)</td>
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<tr>
<td>Benson Elmo B.</td>
<td>Associate Professor, Art; Ed.D., University of Idaho</td>
<td>(1975)</td>
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<tr>
<td>Bentley Elton B.</td>
<td>Associate Professor, Geology, Geophysics; Ph.D., University of Oregon</td>
<td>(1980)</td>
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<tr>
<td>Bentley Danny</td>
<td>Standard Instructor, Drafting Technology; B.S., La Salle Extension University</td>
<td>(1983)</td>
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<tr>
<td>Berg Lynn</td>
<td>Assistant Professor, Music; D.M.A., University of Wisconsin, Madison</td>
<td>(1984)</td>
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<tr>
<td>Bernstein Louis</td>
<td>Assistant Professor, History</td>
<td>(1989)</td>
<td></td>
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<tr>
<td>Bieter J Patrick</td>
<td>Professor, Teacher Education; Ed.D., University of Idaho</td>
<td>(1969)</td>
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<tr>
<td>Bigelow John D.</td>
<td>Professor, Management; Ph.D., Case Western Reserve University</td>
<td>(1982)</td>
<td></td>
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<tr>
<td>Bixby Michael</td>
<td>Associate Professor, Management; J.D., University of Michigan</td>
<td>(1981)</td>
<td></td>
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<tr>
<td>Blankenship Jim</td>
<td>Professor, Art; M.F.A., Otis Art Institute</td>
<td>(1977)</td>
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<tr>
<td>Boreen Robert R</td>
<td>Chairperson, Communication Department; Professor, Communication; Ph.D., Purdue University</td>
<td>(1987)</td>
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<tr>
<td>Boman LeAnn</td>
<td>Instructor, Practical Nursing; B.S., Idaho State University; B.S., University of Colorado</td>
<td>(1988)</td>
<td></td>
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<tr>
<td>Bounds Karen J</td>
<td>Associate Professor, Business and Office Education; Ed.D., North Texas State University</td>
<td>(1973)</td>
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<tr>
<td>Boyer Dale K.</td>
<td>Professor, English; Ph.D., University of Missouri, Columbia</td>
<td>(1968)</td>
<td></td>
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<tr>
<td>Bratt J Wallis</td>
<td>Associate Professor, Music; M.M., University of Utah</td>
<td>(1970)</td>
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<tr>
<td>Breder Susan H.</td>
<td>Professor, Computer Systems; Ph.D., University of Idaho</td>
<td>(1969)</td>
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<td>Brown Douglass</td>
<td>Professor, Philosophy; Ph.D., University of Minnesota, Minneapolis</td>
<td>(1975)</td>
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<tr>
<td>Brown Timothy</td>
<td>Professor, Library and Information Science; Associate Professor, Library Science; M.S., University of Illinois</td>
<td>(1977)</td>
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<tr>
<td>Brownfield Theodore E</td>
<td>Advanced Instructor, Heavy-Duty Mechanics (Diesel)</td>
<td>(1979)</td>
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<td>Buhler Peter</td>
<td>Professor, History; Ph.D., University of California, San Diego</td>
<td>(1980)</td>
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<tr>
<td>Bullington Richard E</td>
<td>Vice President for Information Extension; Professor, Teacher Education; Ed.D., University of Alabama</td>
<td>(1968)</td>
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<td>Burley Ralph</td>
<td>Program Head; Instructor, Drafting Technology</td>
<td>(1973)</td>
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<td>Burnmaster Orvis</td>
<td>Assistant Professor, English; A.M., University of Montana</td>
<td>(1968)</td>
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<tr>
<td>Buss Stephen R.</td>
<td>Chairperson, Theatre Arts Department; Associate Professor, Theatre Arts; Ph.D., Washington State University</td>
<td>(1979)</td>
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<tr>
<td>Butler Doris A.</td>
<td>Advanced Instructor, Business &amp; Office Education; Diploma, Boise State University</td>
<td>(1981)</td>
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<tr>
<td>Button Sherman G.</td>
<td>Professor, Physical Education; Ph.D., University of Utah</td>
<td>(1976)</td>
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<tr>
<td>Cade Tom</td>
<td>Director, Raptor Program; Professor, Raptor Biology; Ph.D., University of California, Los Angeles</td>
<td>(1987)</td>
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<tr>
<td>Cadwell Dan E.</td>
<td>Senior Instructor, Business Machine Technology; A.A.S., Boise State University</td>
<td>(1981)</td>
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<tr>
<td>Callaghan Kathleen</td>
<td>Assistant Professor, Nursing</td>
<td>(1988)</td>
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<td>Capell Harvey J.</td>
<td>Assistant Professor, Decision Sciences, Computer Systems; M.B.A., Northwestern University</td>
<td>(1982)</td>
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</tr>
<tr>
<td>Carlton Douglas</td>
<td>Instructor, Electronics Service Technology; A.A.S., Green River Community College</td>
<td>(1985)</td>
<td></td>
</tr>
<tr>
<td>Carlton Janet</td>
<td>Senior Instructor, Business &amp; Office Education; M.A., Boise State University</td>
<td>(1974)</td>
<td></td>
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<tr>
<td>Carpenter Connie</td>
<td>Manager, CHS Learning Resource Center; Assis. Professor, Nursing</td>
<td>(1986)</td>
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</tr>
</tbody>
</table>
Faculty

Carter Loren S. ........................................... (1970)
Professor, Chemistry; Ph.D., Washington State University

Case Michael ........................................... (1985)
Assistant Professor, English; Ph.D., Arizona State University

Castleberry Robert .................................... (1988)
Instructor, Truck Driving

Centanni Russell ........................................ (1973)
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Chance Jeff ............................................. (1987)
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Chase Eileen .............................................. (1964)
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Chastain Garvin ......................................... (1978)
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Christensen James L .................................... (1970)
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Christenson Steve ...................................... (1988)
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Clark Marvin A ........................................... (1969)
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Cocotis Mardie A ........................................ (1972)
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Colby Conrad ............................................. (1970)
Chairperson, Respiratory Therapy; Professor, Respiratory Therapy; Ph.D., University of Montana

Connor Don L ............................................. (1965)
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Corbin A Robert ......................................... (1967)
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Cornwell Robert ......................................... (1969)
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Cox T Virginia ............................................. (1967)
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Cox Verl M ................................................ (1977)
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Craner G Dawn ........................................... (1975)
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Craychee Gary A ......................................... (1981)
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D

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McGrath Neill Brian ........................................................ (1983)
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McGuire Sherry ........................................................... (1967)
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Program Head; Instructor, Electrical Lineworker; Certificate, Idaho Power Company

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Mech William P ............................................................ (1970)
Director, Honors Program; Professor, Mathematics; Ph.D., University of Illinois

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Mercer Gary D ............................................................ (1975)
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Merz C Mike .............................................................. (1974)
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Messick J Alan ............................................................. (1986)
Program Head; Instructor, Refrigeration, Heating, Air Conditioning

Metzgar Wanda M ........................................................ (1976)
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Mikesell Charles .......................................................... (1976)
Program Head; Senior Instructor, Auto Mechanics; B.S., University of Idaho

Miller Beverly A ........................................................... (1968)
Reference Librarian, Reference Loan Library; Associate Professor, Library Science; M.A., University of Denver

Miller Merlin .............................................................. (1982)
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Miller Wayne R ........................................................... (1983)
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Minch Robert P ............................................................ (1986)
Associate Professor, Computer Systems; Ph.D., Texas Tech Univ.
Faculty

Moen Gary D ... (1986)  
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Moncrief Gary F ... (1976)  
Chairperson, Political Science; Professor, Political Science; Ph.D., University of Kentucky

Morris Daniel N ... (1986)  
Assistant Professor, Communication; M.S., Northwestern University

Munger James C ... (1968)  
Assistant Professor, Biology

Munk Bruce F ... (1978)  
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N

Napier Nancy K ... (1986)  
Associate Professor, Management; Ph.D., Ohio State University

Naumann Earl ... (1967)  
Chairperson, Marketing & Finance; Associate Professor, Marketing; Ph.D., Arizona State University

Nelson Anne M ... (1967)  
Counseling Psychologist, Counseling & Testing Center; Associate Professor, Education; Ph.D., University of Oregon

Nelson Karen ... (1985)  
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Nicherson, Ross ... (1966)  
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Nix David E ... (1975)  
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Oakes Donald R ... (1966)  
Chairperson, Music Department; Associate Professor, Music; M.M., Northwestern University

Odahl Charles M ... (1975)  
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Olson Thomas ... (1973)  
Standard Instructor, Mathematics; B.S.Ed., University of Idaho

Oravetz David L ... (1964)  
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Overgaard Willard ... (1972)  
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Parks Donald J ... (1973)  
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<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution</th>
<th>Location</th>
</tr>
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<tr>
<td>Snyder Walter</td>
<td>Associate Professor, Teacher Education; Ph.D., University of Wisconsin, Madison</td>
<td>(1984)</td>
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<tr>
<td>Sahni Chaman L</td>
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<td>Sallie Steven S</td>
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<td>Sanderson Richard</td>
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<td>(1978)</td>
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<tr>
<td>Sluder Stan</td>
<td>Program Head; Advanced Instructor, Electronics Service Technology; Certificate, Idaho State University</td>
<td>(1983)</td>
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<tr>
<td>Smith Brent</td>
<td>Associate Professor, Art; M.F.A., Utah State University</td>
<td>(1981)</td>
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<tr>
<td>Smith William S</td>
<td>Professor, Physics; Ph.D., University of Wisconsin, Madison</td>
<td>(1973)</td>
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<tr>
<td>Snow Mark E</td>
<td>Professor, Psychology; Ph.D., University of Utah</td>
<td>(1971)</td>
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<td>Snyder Walter S</td>
<td>Assistant Professor, Geology; Ph.D., University of Utah</td>
<td>(1984)</td>
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<tr>
<td>Spafford Stephen</td>
<td>Dean of Admissions; Instructor, Psychology; M.A., University of Oregon</td>
<td>(1972)</td>
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<tr>
<td>Spafford</td>
<td>Associate Professor, Teacher Education; Ph.D., University of Southern California</td>
<td>(1987)</td>
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<td>Spitzer Dean R</td>
<td>Assistant Professor, Physical Education; M.S., University of Illinois</td>
<td>(1988)</td>
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<td>Spitzer Terry-Ann</td>
<td>Associate Professor, Nursing</td>
<td>(1981)</td>
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<td>Stack James</td>
<td>Instructor, Electronics Service Technology; M.S., New Jersey Institute of Technology</td>
<td>(1984)</td>
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<td>Stark Frank W</td>
<td>Chairperson, Chemistry; Physical Science; M.S., Trinity College</td>
<td>(1957)</td>
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<td>Steger Harry L</td>
<td>Professor, Psychology; Ph.D., University of Kentucky</td>
<td>(1972)</td>
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<td>Stitzen Thomas E</td>
<td>Dean, College of Business; Professor, Finance; Ph.D., University of Oregon</td>
<td>(1975)</td>
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<tr>
<td>Stokes Lee W</td>
<td>Associate Professor, Environmental Health; Ph.D., University of Minnesota, Minneapolis</td>
<td>(1987)</td>
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<td>Straub Hilary</td>
<td>Assistant Professor, Nursing; M.S., Indiana University at Bloomington</td>
<td>(1984)</td>
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<tr>
<td>Strong Janet</td>
<td>Orientation Librarian; Assistant to the University Librarian; Associate Professor, Library Science; M.L.S., University of Washington</td>
<td>(1973)</td>
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<tr>
<td>Suedmeyer Joan A</td>
<td>Associate Professor, Ed.D., Syracuse University</td>
<td>(1986)</td>
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<tr>
<td>Sulanke Robert</td>
<td>Professor, Mathematics; Ph.D., University of Kansas</td>
<td>(1970)</td>
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<td>Sumter Bonnie J</td>
<td>Manager, Health &amp; Services Division; B.S.Ed., University of Idaho</td>
<td>(1978)</td>
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<tr>
<td>Takeda Yozo</td>
<td>Chairperson, Management Department; Professor, Management; Ph.D., University of California, Los Angeles</td>
<td>(1969)</td>
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<tr>
<td>Takehara John S</td>
<td>Associate Professor, Art; M.A., Los Angeles State College</td>
<td>(1968)</td>
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<td>Taye John A</td>
<td>Associate Professor, Art; M.F.A., Otis Art Institute</td>
<td>(1975)</td>
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<td>Taylor Adrien P Jr</td>
<td>Associate Professor, Teacher Education; Ed.D., Syracuse University</td>
<td>(1977)</td>
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<td>Taylor John</td>
<td>Assistant Professor, Library; Professor, Library Science; M.A., University of Denver</td>
<td>(1977)</td>
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<td>Taylor David S</td>
<td>Vice President, Student Affairs; Professor, Psychology; Ph.D., Michigan State University</td>
<td>(1972)</td>
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<tr>
<td>Taylor Patricia</td>
<td>Associate Professor, Nursing; M.Ed., College of Idaho</td>
<td>(1975)</td>
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<td>Taylor Ronald S</td>
<td>Associate Professor, Art; M.F.A., Utah State University</td>
<td>(1975)</td>
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<td>Thomas George</td>
<td>Professor, Psychology; Ph.D., University of Nebraska, Lincoln</td>
<td>(1975)</td>
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<td>Thongren Connie</td>
<td>Professor, Physical Education; M.Ed., Central Washington University</td>
<td>(1970)</td>
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<tr>
<td>Thurber Steven D</td>
<td>Chairperson, Economics Department; Associate Professor, Economics; Ph.D., University of Texas, Austin</td>
<td>(1970)</td>
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<tr>
<td>Tillman Charles</td>
<td>Manager, Canyon County Division, Vocational Technical; Senior Instructor, Heavy-Duty Mechanics (Diesel); Diploma, University of Idaho</td>
<td>(1977)</td>
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<tr>
<td>Towle Mary Ann</td>
<td>Senior Instructor, Practical Nursing; M.Ed., University of Idaho</td>
<td>(1976)</td>
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<tr>
<td>Trusky Tom</td>
<td>Professor, English; M.A., Northwestern University</td>
<td>(1970)</td>
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<tr>
<td>Twight Charlotte</td>
<td>Assistant Professor, Economics; Ph.D., University of Washington</td>
<td>(1986)</td>
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<tr>
<td>Uehling Karen S</td>
<td>Associate Professor, English; M.A., University of California, Irvine</td>
<td>(1981)</td>
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<tr>
<td>Valer V</td>
<td>Professor, Nursing; Ed.D., Columbia University</td>
<td>(1965)</td>
<td></td>
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<tr>
<td>Valverde Luis J</td>
<td>Professor, Foreign Languages; Ed.D., University of California, Los Angeles</td>
<td>(1965)</td>
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</tbody>
</table>
Boise State University Emeriti

Faculty

Dorothy Albertson, Professor, Office Administration (1953-1977)
Thelma F. Allison, Associate Professor, Home Economics (1946-1973)
John D. Barnes, President, Boise State University (1952-1977)
John Beitia, 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)
James R. Buchanan, Assistant Professor, Welding (1959-1978)
Clark Burich, Associate Professor, Teacher Education, Library Science (1969-1978)
Erma M. Callies, Department Head & Counselor, Vocational Student Services (1969-1985)
William Carson, Associate Professor, Accounting (1963-1982)
Eulaine B. Chaffee, President, (1932-1967)
Acel H. Chatburn, Professor, Education (1944-1977)
R. Wayne Chatterton, Professor, English (1968-1983)
James D. Doss, Associate Dean, College of Business, Associate Professor, Management (1970-1984)

Williamson Marjorie (1967)
Secretary, Faculty Senate; Associate Professor, Business & Office Education; M.B.Ed., University of Idaho
Willis Lonnie L. (1970)
Professor, English; Ph.D., University of Colorado, Boulder
Wilson Monte D. (1969)
Professor, Geology; Ph.D., University of Idaho
Wilterding Jim (1976)
Assistant Professor, Management; M.B.Ed., University of Idaho
Professor, Management; J.D., University of Michigan
Professor, Music; D.M.A., Louisiana State University
Wojtkowski W. Gregory (1982)
Associate Professor, Computer Systems, Decision Sciences; Ph.D., Case Western Reserve University
Wojtkowski Wita (1983)
Assistant Professor, Computer Systems, Decision Sciences; Ph.D., Case Western Reserve University
Wood Spencer H. (1977)
Professor, Geology, Geophysics; Ph.D., University of California
Wyllie Gilbert A. (1965)
Associate Professor, Biology; Ph.D., Purdue University

Young Jerry (1964)
Assistant Professor, Mathematics; Ed.D., University of Northern Colorado
Young Katherine (1988)
Associate Professor, Teacher Education
Young Mike (1970)
Head Coach, Men's Wrestling; Head Coach, Golf; Assistant Professor, Physical Education; M.A., Brigham Young University
Young Virgil M. (1967)
Professor, Teacher Education; Ed.D., University of Idaho
Yunker Douglas (1976)
Chairperson, Social Work Department; Associate Professor, Social Work; M.A., Indiana University

Zaerr Linda M. (1987)
Assistant Professor, English; Ph.D., Washington State University
Zirinsky Driek (1984)
Associate Professor, English; Ph.D., University of North Carolina, Chapel Hill
Zirinsky Michael P. (1973)
Professor, History; Ph.D., University of North Carolina, Chapel Hill

Boise State University Emeriti

Culisby Edlefsen, Professor, Business (1939-1969)
J. Calvin Emerson, Associate Professor, Chemistry (1933-1940, 1960-1973)
Evelyn C. Everts, Associate Professor, Library Science (1957-1977)
Marjorie Fairchild, Associate Professor, Library Science (1966-1975)
Milton Fleshman, Assistant Professor, Auto Mechanics Technology (1959-1974)
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 (1975-1986)
James W. Hopper, Associate Professor, Music (1970-1986)
Helen R. Johnson, Associate Professor, Business Education (1955-1978)
Leo L. Knowlton, Professor, Marketing (1965-1985)
Max Lamborn, Instructor, Parts Counterperson (1972-1981)
John Leigh, Jr., Instructor, Drafting Technology (1971-1983)
Faculty

Adelaide Anderson Marshall, Assistant Professor, Music (1939-1948, 1966-1972)
Ruth Mc Birney, University Librarian, (1940-1942, 1943-1977)
Carroll Meyer, Professor, Music (1948-1985)
Florence M. Miles, Professor, Nursing (1955-1980)
Kathryn Eckhardt Mitchell, Assistant Professor, Violin (1932-1938)
Donald J. Obee, Professor, Botany (1946-1977)
Margaret Peek, Associate Dean, College of Arts & Sciences, Professor, English (1967-1987)
Elaine C. Rockne, Director, Medical Record Science, Instructor, Medical Records (1968-1986)
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Duston R. Scudder, Professor, Marketing (1964-1987)
Frank Smartt, Assistant Professor, Mathematics (1958-1961)
Donald D. Smith, Professor, Psychology (1967-1984)
Lyle H. Smith, Director, Intercollegiate Athletics, Professor, Physical Education (1946-1981)
Robert Sylvester, Associate Professor, History (1963-1982)
Albert Tennyson, Instructor, Industrial Communications (1966-1977)
Carl W. Tipton, Associate Professor, Management (1965-1980)
James Tompkins, Assistant Professor, Industrial Communications (1963-1985)
David Torbet, Director, Counseling & Testing Center, Professor, Psychology (1966-1983)
G. W. Underkoffler, Associate Professor, Accounting (1952-1974)
Eunice Wallace, Associate Professor, English (1968-1978)
Gerald Wallace, Dean, Professor, College of Education (1968-1978)
Mont M. Warner, Professor, Geology (1967-1984)
John E. Warwick, Associate Professor, Communication (1963-1977)
Allen Weston, Senior Instructor, Drafting Technology (1964-1985)
Wayne E. White, Professor, Management (1965-1987)
Peter K. Wilson, Professor, Business Administration (1966-1977)
Ella Mae Winans, Associate Professor, Mathematics (1958-1983)

Professional Staff

G. M. (Don) Miller, Coordinator, Business & Industry Relations (1969-1985)
Herbert W. Runner, Director, Institutional Research (1947-1984)

 Classified Staff

Evelyn R. Bobo, Admissions Unit Supervisor (1968-1985)
Mary Cozine, Secretary-Office Coordinator, Counseling Center (1972-1984)
Ruth Ann Caylor, Monographs Assistant, Library (1967-1987)
Elaine Durbin, Administrative Assistant, College of Health Sciences (1972-1986)
Patricia J. Durrie, Secretary/Coordinator, Political Science (1970-1988)
Dorothy Haskins, Clerical Specialist, Curriculum Resource Center, Library (1972-1988)
Ione Jolley, Library Assistant I (1968-1986)
Inez Keen, Postal Service Supervisor (1969-1986)
Margaret McGee, Administrative Secretary, College of Education (1970-1988)
Gloria Miller, Library Assistant III (1966-1986)
Marge L. Reid, Department Manager, Bookstore (1960-1984)
Elise Swanson, Secretary-Office Coordinator, Social Work (1972-1986)
Kathy Tipton, Transfer Credit/Graduation Evaluator (1969-1984)
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Eldon Edmundson, Ph.D. ........................................................ Dean, College of Health Science
Tom G. Denison, Ph.D. .......................................................... Acting Dean, School of Vocational Technical Education