College of Health Science

Acting Dean:
Eldon Edmundson, Ph.D.
Associate Dean:
JoAnn T. Vahey, Ed.D.
Telephone (208) 385-1678

College of Health Science Emeriti:
Kelly, Miles

The College of Health Science is organized and dedicated to provide a stimulating and challenging milieu 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 counseling are also provided for those students who need undergraduate studies in order to qualify for medical or other professional schools. The school also recognizes the responsibility of providing continuing education to its graduates and to other health care practitioners.

Faculty of the school not only have the required academic degrees but are also 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
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
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 at Boise State University and its constituent educational programs, departments, and activities, and to encourage donations of funds and gifts to assist in carrying out these objectives.

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

M.M. Burkholder, M.D., President
Mr. James A. Goff, Vice President
Donald L. Pape, D.D.S., Secretary
Mr. Armand Bird, Treasurer
David M. Barton, M.D.
R. E. Bullington, Ed.D.
Mrs. Bernice B. Comstock
Mr. Robert Conrad
Mrs. Lucy Daines
Victor H. Duke, Ph.D.
Mr. William K. Dunkley
Elton H. Edmundson, Ph.D.
Mark H. Ellis, MD
Maria Eschen, R.N., Ph.D.
Mrs. Sybil Ferguson

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

Information may be obtained by contacting the Dean of the College of Health Science at (208) 385-1787.

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

Advisors: Edmundson, Small

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: Edmundson, Long, Poshek.

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
Degree Requirements

ENVIRONMENTAL HEALTH Bachelor of Science Degree

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

2. Professional Requirements:
   - Science (57 credits):
     - College Chemistry C 131-134 ........................................... 9
     - Organic Chemistry C 318-319 ......................................... 5
     - Cell Biology B 301 ........................................................... 3
     - Mathematics M 111, M 120 or M 204 ............................ 9-10
     - General Physics PH 101-102 ........................................... 8
     - Bacteriology B 303 ........................................................... 5
     - Botany-Zoology BT 130, Z 130 ...................................... 9
     - Applied & Environmental Microbiology B 415 ............... 4
     - Entomology Z 303 ............................................................ 4
   - Health Sciences (24 credits):
     - Water Supply and Water Quality Management EH 310 ....... 3
     - Air Quality Management EH 380 ....................................... 2
     - Community Environmental Health Management EH 390 .. 3
     - Public Health Administration H 304 ...................... 1
     - Public Health Law H 435 ................................................... 2
     - Internship EH 493 ............................................................. 4
     - Occupational Safety & Health EH 415 ......................... 3
     - Epidemiology H 480 ......................................................... 3
     - Environmental Health Practicum EH 160 ................. 1
     - Other (6 credits):
       - Technical Writing E 202 ............................................... 3
     - Communication, Sociology or Psychology Elective .......... 3

3. Suggested Electives (11 credits):
   - Pathogenic Bacteriology B 310 ........................................... 4
   - Human Physiology Z 401 .................................................. 4
   - Economics EC 201 ............................................................. 3
   - Biocology B 423 ............................................................... 4
   - Parasitology B 412 ............................................................ 4
   - Management & Organizational Theory MG 301 .............. 3
   - Physical Geology GO 101 .................................................. 4
   - State & Local Government PO 102 .................................. 3
   - Statistics M 361 ............................................................... 3
   - American National Government PO 101 ...................... 3
   - Intro Information Sciences IS 210 .................................... 4
   - Environmental Health Seminar H 498 ............................. 1
   - Communication in the Small Group CM 215 .................... 3

HEALTH SCIENCE STUDIES Bachelor of Science Degree

1. Requirements (79 credits):
   - English Composition E 101-102 ........................................... 6
   - Area I Core Requirements ................................................. 12
   - Area II Core Requirements ............................................. 12
   - Mathematics M 111 .......................................................... 5
   - College Chemistry C 131-134 ......................................... 9
   - Organic Chemistry with Laboratory C 317, 319 ................. 5
   - Biochemistry with Laboratory C 431-432 ....................... 5
   - General Zoology Z 130 .................................................... 5
   - General Botany BT 130 .................................................... 5
   - Cell Biology B 301 ........................................................... 3
   - Bacteriology B 303 ........................................................... 3
   - Immunology B 420 ........................................................... 3
   - Physiology Z 401 or 409 .................................................. 4
   - Health Delivery Systems H 202 ...................................... 3

2. Science Electives (6 courses, 22-23 credits)
   - General Physics PH 101-102 ........................................... 8
   - Biophysics PH 207 .............................................................. 4

Histology Z 400 ................................................................. 4
Quantitative Analysis with Laboratory C 211-212 ................ 5
Bioinformatics C 360 ............................................................ 4
Vertebrate Embryology Z 351 ............................................ 4
Parasitology B 412 ............................................................. 3
Comparative Anatomy Z 301 ............................................... 4
Physical Chemistry C 321-324 ........................................... 6
Mathematics M 204 ............................................................. 5
Organic Chemistry C 318, 320 .......................................... 5

*Students who intend to apply to colleges of Medicine, Dentistry or Veterinary Medicine should consider taking the second semester of organic chemistry (C 318, 320), and mathematics through calculus (M 111 and M 204).

**Students who intend to apply to schools of Medical Technology should take Pathogenic Bacteriology. The second semester of Biochemistry is suggested for these students.

3. Health Science Electives (4 courses, 11-13 credits)
   - Medical Terminology H 101 ............................................. 3
   - Drugs: Use & Abuse H 109 ............................................... 3
   - Disease Conditions I & II H 211-H 212 ................................ 3-6
   - Chronic Illnesses H 205 ................................................... 3
   - Introduction to Health Law & Ethics H 213 ...................... 2
   - Pathophysiology H 300 .................................................... 4
   - Public Health Administration H 304 ................................ 3
   - Applied Pharmacotherapeutics H 306 .............................. 3
   - Human Sexuality for Health Professionals H 313 ............. 3
   - Medical Economics and Finance H 405 ........................... 3
   - Epidemiology H 480 ........................................................ 3
   - Preprofessional Internship H 493 .................................... 2

4. Free Electives (13-16 credits)

Recommended Programs

ENVIRONMENTAL HEALTH

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<th>FRESHMAN YEAR</th>
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<tr>
<td>English Composition E 101-102</td>
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<tr>
<td>Elective (Area II)</td>
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SOPHOMORE YEAR

| Botany BT 130                  | 4   |
| Zoology Z 130                  | 5   |
| Physics PH 101-102             | 4   |
| Technical Writing E 202        | 3   |
| Speech CM 111                  | 3   |
| Electives (Area I)             | 3   |
| Psychology P 101               | 3   |
| Sociology SO 101               | 3   |
| Environmental Health Practicum EH 160 | 1   |
| Environmental Health Seminar H 498 | 1   |
| Communication in the Small Group CM 215 | 3   |

JUNIOR YEAR

| Organic Chemistry C 318-319   | 5   |
| Electives                     | 5-8 |
| Health Science Requirements  | 5-6 | 2-6 |
| Cell Biology B 301            | 0   |
| Electives (Area I)            | 3   |
| Elective (Area II)            | 3   |
| Preprofessional Internship H 493 | 2   |

SENIOR YEAR

| Bacteriology B 303            | 5   |
| Applied and Environmental Microbiology B 415 | 4 |
| Health Science Requirements  | 5-6 | 2-6 |
| Sociology, Psychology or Communication Elective | 4 |
| Entomology Z 305              | 3   |
| Electives                     | 6or3|
| Preprofessional Internship H 493 | 14-15 |

HEALTH SCIENCE STUDIES

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<td><strong>Electives (Area I)</strong> ............................................. 3 3</td>
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<td>Health Delivery Systems H 202 3 3</td>
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<td>Bacteriology B 303 ............ 5 -</td>
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<td>Physiology Z 401 or 409 .......... 4 -</td>
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<td>Science Electives .............. 7 3</td>
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<td>Health Science Elective ....... 3 -</td>
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<td>Immunology B 420 ............. 3 -</td>
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<td>Free Electives ................. 7 -</td>
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<td><strong>PRE-DIETETICS PROGRAM</strong></td>
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<td>Nutrition H 207 ................ 3 -</td>
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<td>Principles of Food Preparation H 209 .... 4 -</td>
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<td>Math M 108 ..................... 4 -</td>
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<td>Microbiology B 205 ............ 4 -</td>
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<td>Technical Writing E 202 .......... 3 -</td>
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<td>Cultural Anthropology AN 102 ...... 3 -</td>
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<td>A First Course in Programming M 122 ... 2 -</td>
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<td>Economics EC 201 or 202 .......... 3 -</td>
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<td>Statistics DS 207 ............. 3 -</td>
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<td>Sociology of the Family SO 340 .... 3 -</td>
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**Course Offerings**

**EH ENVIRONMENTAL HEALTH**

**Lower Division**

EH 160 ENVIRONMENTAL HEALTH PRACTICUM (B-V-10/F/S). Field observations in public health agencies. Requires a minimum 20 hours in the field and periodic seminars with a university instructor. Required for all environmental health majors.

**Upper Division**

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

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

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

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

**H HEALTH SCIENCES**

**Lower Division**

H 100 INTRODUCTION TO ALLIED HEALTH (1-4-1/F). Various allied health disciplines and their clinical functions are discussed. Information on basic educational requirements, opportunities and advancement for each discipline of health care delivery. Lectures by allied health faculty and guest speakers from the medical community. Orientation to allied health care in clinical facilities.

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

H 109 DRUGS: USE AND ABUSE (3-4-3)(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. Even-numbered years.

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 205 CHRONIC ILLNESS: IMPACT AND OUTCOME (3-0-3)(S). Introduction to the medical and psychosocial dimensions of chronic illness, using cancer as a prototype. PREREQ: sophomore standing or PERM/INST. Even-numbered years.

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

H 209 PRINCIPLES OF FOOD PREPARATION (2-4-4/S). Interrelationships of the nutritive value of foods, principles of food preparation, and the human body. Approved techniques of food preparation to retain nutrients and enhance palatability, food safety and 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/S). 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 HEALTH LAW AND ETHICS (2-0-2/F). A broad introduction to the basic legal and ethical concepts considered to be essential in the care of clients by health providers. A foundation course for instruction in the specialized application of this content in the students' major health care disciplines.

H 298 ENVIRONMENTAL HEALTH COLLOQUIUM (1-1-1/F). A discussion of environmental health management problems and concepts. Special emphasis on why problems occur and ways to develop community support in solving problems. May be repeated one time for credit.

**Upper Division**

H 300 PATHOPHYSIOLOGY (4-0-4/F). Emphasis on dynamic aspects of human disease. Disruption of normal physiology and alterations, derangements, and mechanisms involved. PREREQ: C 107-110 or equivalent and Z 111-112 or equivalent.

H 304 PUBLIC HEALTH ADMINISTRATION (3-0-3/F). Functions of local, state and federal health agencies, and factors which have an impact on agency programs. PREREQ: Upper division standing and health science major or PERM/INST. Even-numbered years.

H 306 APPLIED PHARMACOTHERAPEUTICS (3-4-3)(S). Emphasis on use of drugs in relation to health and illness in any setting, on legal aspects, and on patient education. Students will be expected to use prerequisite information in the study of drugs, and their interactions. PREREQ: H 300; 45 credits each. PREREQ: C 107-110 and Human Anatomy and Physiology. Clinical background as a health student or professional.

H 310 METHODS IN CLINICAL LABORATORY SCIENCE (2-3-3)(F). Interdisciplinary course in clinical laboratory procedures used in a primary care setting. Clinical significance of tests in relation to disease processes is stressed. Lectures/clinical practice in lab to enable students to learn accurate techniques and become clinically competent to perform and interpret selected laboratory procedures. PREREQ: H 300, PERM/INST.
H 313 HUMAN SEXUALITY FOR HEALTH PROFESSIONALS (3-0-3F). For students in variety of health related areas. Emphasis on biological, sociological aspects of sexuality. Value systems examined in relation to delivery of effective, holistic health care by individual providers and by the total health care delivery system. PREREQ: Health-related professionals or PERM/INST. Even-numbered years.

H 405 MEDICAL ECONOMICS AND FINANCE (3-0-3S). Introduction to the economics and financing of health care and health care agencies. Odd-numbered years.

H 406 PRINCIPLES OF EDUCATION IN HEALTH SCIENCES (3-0-3S). Introduces the student to the concepts and practical applications of educational theory as applied to health occupations. The techniques of the course will examine preservice health education, in-service education, continuing education, and community health education.

H 435 PUBLIC HEALTH LAW (2-0-2S). 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. PREREQ: Upper division standing or PERM/INST, odd-numbered years.

H 480 EPIDEMIOLOGY (3-0-3S). Study of the distribution of disease or physiological conditions of humans, and of factors which influence this distribution. PREREQ: Upper division status, health science major or PERM/INST; statistics desirable. Even-numbered years.

H 493 PREPROFESSIONAL INTERNSHIP (1-3-2F/S). 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.

H 498 ENVIRONMENTAL HEALTH SEMINAR (1-0-1F/S). A discussion of environmental health management problems and concepts. Special emphasis on why problems occur and ways to develop community support in solving problems. May be repeated once for credit.

Department of Medical Record Science

Health Sciences Building Telephone (208) 385-1661
Chairman and Associate Professor: Conrad Colby; Associate Professor: Seddon; Instructor: Rockne.

Degrees Offered
- AS in Medical Record Technology

Departmental Statement

Medical Record technicians are qualified to work in any health care agency where health records are prepared, analyzed, and preserved. Areas of concentration include classifying diseases and operations, analyzing records of discharged patients, compiling statistical information for administration and research, transcribing medical reports and abstracting data for medical care evaluation studies. In addition, students receive training in medical record departments of area health facilities. Students are responsible for their own transportation from BSU to the clinical agencies.

An Associate of Science degree is offered.

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

Graduates of the program are eligible to write the national accreditation examination, and upon successful completion of this examination are recognized as Accredited Record Technicians (ART).

Department Admission Requirements

Any student who fulfills the university entrance requirements is eligible to enter the first semester of the program.

To continue in the program, students must:
1. Complete the first semester with a GPA of 2.00 or higher.

2. Make an appointment for an interview with the program director before midterm of spring semester of the first year.

3. Fill out and return to the Medical Record Program Office (H-210) a "Special Programs Application for the Department of Medical Record Science" on or before March 1 of the year in which the student is in the Introduction to Medical Records class. Applicants will be notified of their status by April 25. Due to the small number of available clinical sites, the program can accept only a limited number of students each year.

4. Have adequate health status to ensure successful performance of hospital activities; submit a negative PPD or chest x-ray plus a documented Rubella immunity report to the program before entering the second year.

5. Submit $15.00 for name pin and lab fee, per academic year, payable to the program by September 1st of second year of the program.

Promotion and Graduation

1. Students must maintain a GPA of at least 2.00 in order to enter the second year of the program.

2. A grade of less than C in any professional course, numbered H or MR, must be repeated and raised to C or higher before continuing in the program.

3. Students who complete all course requirements with a GPA of 2.00 or higher qualify for graduation.

Recommended Program

MEDICAL RECORD SCIENCE PROGRAM
Associate of Science Degree

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<th>FRESHMAN YEAR</th>
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<td>English Composition E 101-102</td>
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<td>Introduction to Medical Records MR 115</td>
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<td>Health Data MR 205</td>
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SOPHOMORE YEAR

| Medical Records I MR 201-202 | 5 | - |
| Diagnostic and Operative Coding MR 207 | 3 | - |
| Disease Conditions I H 211 | 3 | - |
| Health Delivery Systems H 202 | 3 | - |
| Introduction to Health Law & Ethics H 213 | 2 | - |
| Area II Core Elective | 3 | - |
| Medical Records II MR 203-204 | 5 | - |
| Health Record Transcription MR 209 | 2 | - |
| Disease Conditions II H 212 | 3 | - |
| Introduction to Information Science IS 210 OR | 2 | - |
| First Course in Programming M 122 | - | 2-3 |
| - | 16 | 15-16 |

After the successful completion of the professional year at BSU, students will have a three to four-week period of directed practice in one of several affiliated health facilities.

Clinical Practice MR 215

Course Offerings

MR MEDICAL RECORDS

Lower Division

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

MR 201 MEDICAL RECORDS I (3-0-3F). 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. COR-EQ: MR 202.
College of Health Science

MR 202 MEDICAL RECORDS I LABORATORY (0-4-2)(S). 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, computer applications, basic principles of supervising and managing a medical record department, communication theory and practices for medical record professionals. PREREQ: MR 201. COREQ: MR 204.

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

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

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


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

Department of Nursing
Science/Nursing Building, Room 107 Telephone (208) 385-3907
Chairman and Professor: Dr. Neila Poshek; Associate Professors: Baker, Fountain, Job, Lynch, Matson, Penner, Taylor, Wade, Wilcox; Assistant Professors: Butterfield, Chace, Nelson, Peterson, Schall; Instructors: Bledsoe, Leahy, Otterness, Straub, Wise.

Degrees Offered
• AS in Nursing
• BS in Nursing

Departmental Statement
The Department conducts a two-year, lower division curriculum leading to an Associate of Science Degree. This program prepares a student to write the National Council Licensure Examination for initial licensure as a Registered Nurse. The Department also offers a two-year, upper division curriculum for RN’s to continue academic study and to obtain a Bachelor of Science Degree in Nursing.

The current system of health care delivery requires associate as well as baccalaureate degree-prepared practitioners of nursing. Each of these contribute to meeting the nursing and health care needs of man. The associate degree nurse is prepared at the technical level; the baccalaureate degree nurse is prepared at the professional level. Both levels of nursing personnel function as interdependent members of the health care team.

It is recognized that a number of graduates from diploma and associate degree programs in nursing do change career goals. Therefore, a baccalaureate level education program in nursing is deemed essential to support this change.

Associate of Science Degree Program

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

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

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

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

Advisement: The Associate of Science Degree may be completed in 4 semesters. However, students’ needs and goals may indicate a 3 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 Degree 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.

Applicants must meet the general University requirements as well as the stated requirements for the Associate Degree Nursing Program in one of the four categories listed below:
1. High school graduates will be considered for admission on the basis of ACT or SAT scores and a GPA of 2.50 or above at the completion of the 7th semester of high school. ACT—A composite standard score of not less than 20. OR SAT—Total score of at least 888.
2. College students who have earned a minimum of 12 semester college credits in Biological, Physical or Social Science, and English will be considered for admission on the basis of a 2.50 GPA or better earned in those college courses, provided the applicant has earned a grade of “C” or better in any general education course required in the Associate Degree Nursing Program.
3. Transfer students from other collegiate (AD or BS) schools of nursing to the Associate Degree Nursing Program at BSU are required to submit applications and meet the admission requirements according to the appropriate category and standards as outlined in paragraphs 1 and 2 above. In addition, a recommendation from the applicant’s previous school of nursing is required. Admission is always dependent upon availability of space in the courses the applicant needs for completion of the program.
4. Licensed practical nurses and students transferring from diploma schools of nursing may apply for advanced placement as sophomore nursing students by meeting the following criteria:
   a. submit an official record of practical nursing education,
   b. submit current evidence of licensure (LPN),
   c. complete N 114, Orientation to Associate Degree Nursing, during the spring semester of the year prior to the year of planned enrollment in the sophomore nursing courses,
   d. complete all freshman general education courses which are prerequisites to sophomore nursing courses, with a GPA of 2.50 or better, as well as a grade of “C” or better in required general education courses,
   e. pass the required final exams for N 100, N 102,
   f. pass the freshman level clinical performance evaluation. (Given during the spring semester only.)
**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. ADN Program applications are available in the Science-Nursing Building, Room 110.

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. This evidence must be received by the Nursing Department Office prior to March 1, preceding the fall in which enrollment is planned.

3. Complete all application requirements during the period of September 1 to March 1 prior to the date of anticipated enrollment in nursing courses.

4. Late applications will be accepted only if space is still available in the nursing program.

Following acceptance into the ADN program, all applicants must:

1. Submit a statement from a physician that the applicant possesses the mental and physical health to meet the requirements of being an active and a successful student in the program as well as for being employed in the practice of nursing following graduation.

2. Submit a negative PPD or a chest X-ray plus a documented Rubella immunity report to the Associate Degree Nursing Program.

3. Submit $100.00* non-refundable prepayment for student name pin, uniform badge, malpractice insurance, and standardized National League for Nursing examinations. Required of all students throughout the program. This is a one-time charge upon admission to the program.

4. Submit $25.00* non-refundable lab fee payable by August 1 of each academic year.

*Amount subject to change.

**Bachelor of Science Degree Program**

**Description:** This program has two major purposes:

1. To enable registered nurses to earn the baccalaureate degree with a major in nursing;

2. To provide the base for graduate study in nursing.

Admission to this program is limited to registered nurses graduated from associate degree or diploma schools of nursing. Graduates are awarded the Bachelor of Science degree with a major in Nursing and will be prepared for independent, collaborative, and leadership responsibilities in the delivery of health care services. The program is approved by the Idaho State Board of Nursing and accredited by the National League for Nursing.

**Philosophy:** The faculty believe the purpose of this program is to provide the graduate with a baccalaureate education in nursing and the foundation for graduate study. The following statement represents the philosophical beliefs of the baccalaureate nursing faculty about man, environment, health, professional nursing, and professional nursing education.

Man is a complex, biopsychosocial, cultural being in continuous interaction with his environment, developing and adapting throughout the life cycle. Man's adaptive resources are derived from his unique combination of biopsychosocial characteristics: his ability to think, to reason, to modify his environment, to communicate and develop beliefs and value systems. Man has a right and a responsibility to make decisions affecting his future and to make decisions based upon cognitive and affective factors.

Health and illness are dynamic states. These states depend upon the unique balance of stresses and adaptive capacities operating within the individual, family, and community. Health and illness are on a continuum with high level wellness on one end and death on the other.

Each individual will reach the highest level of functioning on this continuum depending on their adaptive responses. People have an obligation to be involved in activities directed toward their care. Effectiveness of health delivery depends upon communication and collaboration among health care providers and consumers.

**Pre-Entrance Advisement:** Potential applicants should contact the program office to obtain advisement in advance of the application date. Candidates for admission who fail to utilize this service, or who apply too late to receive advisement, run the risk of failing to qualify for admission by the date which they have chosen.

**Admission Requirements**

To qualify for admission, applicants must:

1. Possess a current license as a registered nurse and secure Idaho license prior to enrollment.

2. Have maintained a GPA of 2.75 or better and passed all required courses with a grade of C or better.

3. Have completed the following credits:
   - English Composition ........................................ 6
   - Microbiology .................................................. 3
   - Nutrition ......................................................... 2
   - Area II Core courses ....................................... 6
   - Chemistry ......................................................... 4
   - Human Anatomy & Physiology ............................ 8

**Application Procedures:** To apply for admission, the applicant must:

1. Make application to the university (if not previously admitted) and to the Baccalaureate Nursing Program. Students previously admitted to Boise State University, but not recently registered for classes, will have to reactivate their admission to the university.

2. Complete the following actions by March 1, preceding the Fall Semester in which enrollment in nursing courses is planned:
   - a. Return completed university application to the Admissions Office and the special application form for the Baccalaureate Nursing Program to the Baccalaureate Nursing Program office.
   - b. Submit transcripts from all institutions of higher education which candidate has attended.
   - c. Write the required nursing examinations.

Following admission, the candidate must:

1. Return the Intent to Enroll form. This form is sent to the candidate when notified of acceptance in May. Failure to complete and return the form by the required date will result in removal of the candidate's name from the list of students for Fall admission.

2. Attend an orientation session usually lasting half a day and scheduled immediately prior to registration for the Fall semester. Accepted students will be notified regarding the time and place of this meeting.

3. Secure malpractice insurance prior to orientation.

4. Complete all conditional admission requirements prior to orientation.

**Progression and Graduation:** In order to progress through the program and qualify for graduation, students must meet all university requirements as well as the requirements for the nursing major, including required support courses. A GPA of 2.00 or better must be maintained and all nursing and required support courses must be completed with a grade of C or better. Students may repeat, once only, theory and simulated practicum courses in nursing and required support courses. The clinical practicum of any nursing course may not be repeated if a grade of D or F is earned.

Students whose GPA falls below 2.00 or who receive less than a C in theory and simulated practicum courses in nursing or in required support courses will be placed on academic probation.

The full-time student who carries 15-16 credits per semester can complete the program in two years.

In order to maintain the educational quality of the program, part-time students are subject to some regulations as follows:
# Degree Requirements

## College of Health Science

1. Complete degree requirements in nursing courses within four years from enrollment in nursing courses.

2. Maintain continuous enrollment in nursing courses for both fall and spring semesters.

3. Follow the prescribed sequencing of nursing courses for part-time students.

4. Complete all 300 level nursing and required support courses before enrollment in any 400 level nursing courses.

Each student admitted to the program is assigned an advisor. The student is expected to confer with the advisor to evaluate progress in the program and to plan registration for the next semester.

For further information contact:
Department of Nursing
Baccalaureate Program
Boise State University
1910 University Drive
Boise, ID 83725
(208) 385-1768

## Course Offerings

### N Nursing

#### Lower Division

**N 100 Fundamentals of Nursing** (3-9-6)(S). First of four sequential courses. Focus is Man’s well-being, environmental interaction, and ability to cope with stress. Clinical learning experiences are designed to increase knowledge of self/others; environmental factors which affect health; and measures used to assist people of all ages cope with change and progress toward high-level wellness. **PREREQ:** Admission to the AD Nursing Program.

**N 102 Fundamentals of Nursing II** (3-12-7)(S). Builds upon concepts presented in N 100. Focus: methods of assisting patients/families adapt to stresses
of illness and/or surgery. Exploration of concepts which apply to individuals at various points on the health/illness continuum. Clinical learning experiences assist student in planning and implementing measures to help patients progress toward wellness. PREREQ: N 100.

N 114 ORIENTATION TO ASSOCIATE DEGREE NURSING FOR ADVANCE PLACE-MENT STUDENT (1-0-1)(S). Designed to assist the student in transition from one role in nursing to another. Content focuses upon basic nursing concepts, the role of the associate degree nurse, and challenge procedures for advanced placement.

N 280 NURSING INTERVENTION I (4-15-9)(F). Provides for continued development of concepts presented in first year courses. Focus is two-fold: assisting patients and families to adapt to changes in life-style or problems resulting from disordered communication. Clinical learning experiences assist student in providing interventions for families and individuals with increasingly complex health problems. PREREQ: N 102.

N 202 NURSING INTERVENTION II (4-18-10)(S). Continues development of concepts acquired in previous courses and completes student's socialization to associate degree nursing. Focus on application of concepts to assist patient/families in adapting to complex or life-threatening situations. Clinical learning experiences require student to become more self-directed and flexible in application of concepts to patient care. PREREQ: N 200.

**Upper Division**


N 308 LEADERSHIP AND PROFESSIONAL INTERACTIONS (2-0-2)(F). The leadership process is explored in relation to power, communication, bureaucratic structure, group theory, ethical/political issues and change. Nursing leadership and professional interactions are emphasized in the context of the health care setting. PREREQ or COREQ: N 302, N 360 COREQ: N 309.


N 360 HEALTH-ILLNESS I (3-0-3)(F). Theoretical base for nursing practice from developmental systems, stress-adaptation and high-level wellness categories of theories. Overall perspective on biopsychosocial adaptation by individuals throughout major phases of life cycle. Focus on assessment of individual health status/potential. PREREQ or COREQ: N 302, H 300. COREQ: N 361, 308.


N 392 INTRODUCTION TO NURSING RESEARCH (3-0-3)(S). Research process as applied in health care research. Emphasis on defining researchable problems, conceptualizing research design, and analyzing steps in the research process. Critical review of research articles to evaluate findings for application to nursing practice. PREREQ: N 302 or PERMINSIT.

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


N 410 NURSING IN THE COMMUNITY (2-0-2)(F). Theoretical and historical perspectives on community problems in relation to professional nursing roles. Application of nursing process in assessing communities to identify needs as a basis for planning improved health care service. PREREQ: All 300 level nursing and support courses. COREQ: N 411.


N 430 HEALTH-ILLNESS III (2-0-2)(F). Application of theoretical base for nursing practice to individuals of all ages and families to facilitate their adaptation to life-threatening illnesses/trauma. Continuing use of nursing process with emphasis on implementation and evaluation of care. PREREQ or COREQ: N 410. COREQ: N 430.


N 432 HEALTH-ILLNESS IV (2-0-2)(S). Application of theoretical base for nursing practice to individuals of all ages and families to facilitate their adaptation to chronic illness. Continuing use of nursing process with emphasis on implementation and evaluation of care. PREREQ: N 410, 430. COREQ: N 402, 433, PRE- or COREQ: N 408.


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### Department of Preprofessional Studies

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

**Dean and Professor:**

**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-Hygiene, pre-Occupational Therapy, pre-Optometry, pre-Pharmacy, pre-Physical Therapy, pre-Veterinary Medicine, pre-Chiropractic, or Medical Technology.

In view of the specialized nature of each program the student should seek regular counsel from the advisor who has been designated for his or her major field of interest. A handbook for Preprofessional students is available from the advisors and should be used as a reference.

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

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

Qualified students may register for an internship of two credits per semester. These students will work and study in a clinical environment with a practicing physician, dentist, or veterinarian, etc. PREREQ: H 202; upper division standing; cumulative GPA above 3.25; recommendation
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

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*Suggested Program*

**FRESHMAN YEAR**

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*Pre-Dental 8; Pre-Medical 10
**Additional Upper Division credits so that Upper Division credits will total at least 40.
***H 202, Health Delivery Systems, is prerequisite Preprofessional Internship, H 493.

**PRE-DENTISTRY, CHEMISTRY OPTION**
Bachelor of Science

Science-Nursing Building, Room 213  Telephone (208) 385-3499
Advisor: Dr. Richard C. Banks

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*Suggested Program*

**FRESHMAN YEAR**

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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>SEM</th>
<th>SEM</th>
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</thead>
<tbody>
<tr>
<td>Botany BT 130</td>
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<tr>
<td>Zoology Z 130</td>
<td>5</td>
</tr>
<tr>
<td>Organic Chemistry C 317-320</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics M 205-206</td>
<td>4</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
</tr>
<tr>
<td>Elective(H 202 recommended)**</td>
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<td><strong>Total</strong></td>
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**JUNIOR YEAR**

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<tbody>
<tr>
<td>Comparative Anatomy Z 301</td>
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</tr>
<tr>
<td>Genetics, with or without Lab B 343, 344</td>
<td>3-4</td>
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<tr>
<td>Bio or Analytical Chemistry with Lab C 431-432 or C 211-212</td>
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<tr>
<td>Area I Core Courses</td>
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<tr>
<td>Physics PH 101-102</td>
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<td><strong>Total</strong></td>
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**SENIOR YEAR**

<table>
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<tbody>
<tr>
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<tr>
<td>Instrumental Analysis C 411</td>
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<td>Chemistry Independent Study C 496</td>
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<td>General Psychology P 101</td>
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<td>Chemistry Seminar C 498, 499</td>
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</table>
Additional Upper Division credits so that Upper Division credits will total at least 40.

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

PRE-VETERINARY MEDICINE
Bachelor of Science

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

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

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

Either the Graduate Record Examination (GRE) or the Veterinary Aptitude Test (VAT) should be taken in October prior to the year in which the student hopes to enter the WSU School of Veterinary Medicine.

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

Requirements

<table>
<thead>
<tr>
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<td>Area II Requirements</td>
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<td>Zoology Z 130</td>
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<tr>
<td>Cell Biology B 301</td>
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<tr>
<td>Bacteriology B 303</td>
<td>3</td>
</tr>
<tr>
<td>Genetics B 343-344</td>
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<tr>
<td>College Chemistry C 131-134</td>
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<tr>
<td>Organic Chemistry C 317-320</td>
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<tr>
<td>Biochemistry C 431-432</td>
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<td>Mathematics M 111-204</td>
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<td>General Physics PH 101-102</td>
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<td>Electives: *Applied Animal Nutrition</td>
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Electives: 34-35

Suggested Program

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<td>Sophomore Year</td>
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<tr>
<td>Botany &amp; Zoology BT 130, Z 130</td>
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<td>5</td>
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<tr>
<td>Organic Chemistry C 317-320</td>
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<td>*Applied Animal Nutrition</td>
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<tr>
<td>Electives (H 202 recommended)</td>
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<td>Area II Core Courses</td>
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<td>Junior Year</td>
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<td>Cell Biology B 301</td>
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<tr>
<td>Genetics B 343-344</td>
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<td>Senior Year</td>
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<td>Bacteriology B 303</td>
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<tr>
<td>Biochemistry C 431-432</td>
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<td>1</td>
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</table>

Bachelor of Science in Medical Technology

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

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

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

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

Students have the responsibility of applying directly to hospital schools for admission to a professional program in Medical Technology.

Upon admission to a hospital school affiliated with BSU and approved and accredited by CAHEA, the student may register for and earn an additional 32 credits for Medical Technology Clinical Class and Practice (MT 487-490) and apply for a Bachelor of Science degree in Medical Technology.

Requirements

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English Composition E 101-102</td>
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<td>Area I Core Elective</td>
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<td>Mathematics M 111-204</td>
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<tr>
<td>College Chemistry &amp; Laboratory C 131-134</td>
<td>9</td>
</tr>
<tr>
<td>Organic Chemistry &amp; Laboratory C 317-319</td>
<td>5</td>
</tr>
<tr>
<td>*Biochemistry &amp; Laboratory C 431-432</td>
<td>5</td>
</tr>
<tr>
<td>General Zoology Z 130</td>
<td>5</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
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<tr>
<td>Bacteriology B 303</td>
<td>3</td>
</tr>
<tr>
<td>Etiogenic Bacteriology B 310</td>
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<tr>
<td>Immunology B 420</td>
<td>3</td>
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<tr>
<td>General Botany BT 130</td>
<td>4</td>
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<tr>
<td>Human Physiology Z 401</td>
<td>4</td>
</tr>
<tr>
<td>Health Delivery Systems H 202</td>
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<tr>
<td>Health Science Electives</td>
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</tr>
<tr>
<td>Electives</td>
<td>4</td>
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</tbody>
</table>

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

Medical Technology Clinical Class and Practice (MT 487-490) is comprised of a 12-month course of study of the following subjects, taught as part of the hospital program:

- Hematology: 6
- Clinical Bacteriology: 8
- Clinical Parasitology: 1
- Urinalysis: 1
- Clinical Chemistry: 8
- Immunohematology: 3
- Serology-Immunology: 2
- Toxicology: 1
- Clinical Mycology: 1
- Clinical Correlations Seminar: 32
College of Health Science

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>
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<td>College Chemistry C 131, 133</td>
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</tr>
<tr>
<td>College Chemistry Laboratory C 132, 134</td>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
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<tbody>
<tr>
<td>Organic Chemistry C 317-319</td>
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<tr>
<td>General Botany BT 130</td>
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<td>General Zoology Z 130</td>
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<tr>
<td>Electives Area I or II Core</td>
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<table>
<thead>
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<th>JUNIOR YEAR</th>
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<tbody>
<tr>
<td>General Bacteriology B 303</td>
</tr>
<tr>
<td>Pathogenic Bacteriology B 310</td>
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<td>Immunology B 420</td>
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<td>Biochemistry C 431</td>
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<td>Health Delivery Systems H 202</td>
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<td>Human Physiology Z 401</td>
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<td>Free Electives</td>
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<tr>
<td>- 17</td>
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</tbody>
</table>

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

Course Offerings

MT MEDICAL TECHNOLOGY

MT 201 BASIC MEDICAL TECHNOLOGY (3-0-3(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—6 CRI(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—647 hours per semester—12 CR(S)). Clinical instruction in a hospital school approved and accredited by CAHEA. PREREQ: Acceptance by a hospital school accredited by CAHEA.

MT 489 CLINICAL CLASS AND PRACTICE (153 hours per semester—218 hours per semester—12 CR(S)). Clinical instruction in a hospital school approved and accredited by CAHEA. PREREQ: Acceptance by a hospital school 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>
<td>3</td>
<td>3</td>
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<tr>
<td>Chemistry C 107, 109</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Chemistry C 106, 110</td>
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</tbody>
</table>

College of Health Science

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.

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<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
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<tbody>
<tr>
<td>English Composition E 101-102</td>
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<tr>
<td>Anatomy &amp; Physiology Z 111-112</td>
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<td>Chemistry C 107, 109</td>
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<tr>
<td>Chemistry C 106, 110</td>
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College of Health Science

PRE-DENTAL HYGIENE

Student Health Center, Room 117  Telephone (208) 385-1996
Advisor: Rex E. Profit

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Suggested Program

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

College of Health Science

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>
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<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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<tr>
<td>Chemistry C 107, 109</td>
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<td>2</td>
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<tr>
<td>Chemistry C 106, 110</td>
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</table>
Students who intend to apply to Pharmacy schools other than ISU are advised to consult the pre-Pharmacy advisor and pattern their curriculum after that of the school to which they expect to transfer.

Suggested Program

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<th>2nd SEM</th>
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<tbody>
<tr>
<td>English Composition E 101-102</td>
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<td>Mathematics M 111</td>
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<td>*Mathematics M 204</td>
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<td>Area I Core</td>
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<td>Fundamentals of Speech CM 111</td>
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<tbody>
<tr>
<td>Zoology Z 130</td>
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<td>-</td>
<td>17-18</td>
<td>16</td>
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</table>

* When possible it is desirable to take M 204 the first semester and add General Botany BT 130 the second semester of the freshman year.

Quantitative Analysis C 211-212 can also be taken as a preprofessional course.

PRE-PHYSICAL THERAPY

Student Health Center, Room 118 Telephone (208) 385-328*
Adviser: Dr. Gary Craychee

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

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

Suggested Program

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
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<tr>
<td>Anatomy and Physiology Z 111-112</td>
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<td>Psychology P 101</td>
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<td>Mathematics M 111</td>
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<td>College Chemistry C 131, 133</td>
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<tr>
<td>College Chemistry Lab C 132, 134</td>
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</tr>
<tr>
<td>Electives (Area I, II)</td>
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<td>3</td>
</tr>
<tr>
<td>-</td>
<td>16</td>
<td>18</td>
</tr>
</tbody>
</table>

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

Course Offerings

H HEALTH SCIENCES

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

Department of Radiologic Sciences

Student Health Building Telephone (208) 385-1996

Chairman and Associate Professor: Rex E. Profit; Associate Professor: Craychee, Munk; Instructor: McCrorie.

Degrees Offered

- AS in Radiologic Technology
- BS in Radiologic Technology

Department Statement

To determine the presence of injury or disease, Radiologic Technologists position patients and operate radiographic equipment to produce diagnostic films. Most technologists work in Radiology Departments of hospitals or with physicians who maintain private practices.

The Radiologic Technology Program offers a curriculum utilizing both university and clinical components. This integrated program is needed so that students may gain the essential knowledge and skills required to become Radiologic Technologists.

The program has been granted full accreditation by the Committee on Allied Health Education and Accreditation of the American Medical Association in cooperation with the Joint Review Committee on Education in Radiographic 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 to the Baccalaureate degree.

Department Admission Requirements and Application Procedures

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.
   - b. Health status must be adequate to ensure successful performance of hospital activities.

Application Process:

1. Freshman Year
   - a. See University Requirements.

2. Sophomore Year
   - a. 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. Applicants are required to have an interview during the spring semester of the freshman year. Contact the department chairman for details.
   - 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.

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 September 1 of the Sophomore year.
2. Submit $65.00 as prepayment for student name. This nonrefundable cost is payable by May 10 preceding the Sophomore year.
3. Submit a $60.00 lab fee per academic year, payable to the department by September 1 of each professional year.

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.

135
### Required Program

**Radiologic Technology 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>Human Anatomy &amp; Physiology Z 111-112</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Medical Terminology</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Essentials of Chemistry C 107</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Essentials of Chemistry Lab C 108</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Mathematics M 108</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Intro to Allied Health H 100</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Intro Information Science IS 210</td>
<td>- 3</td>
<td>-</td>
</tr>
</tbody>
</table>

**Sophomore Year**

- Clinical Practicum RD 211, 221
- Radiographic Positioning I RD 222
- Radiographic Techniques and Control RD 226
- Radiological Physics PH 106
- Intro to Radiography Clinical Experience RD 234
- Radiation Biology-Protection RD 230
- Radiographic Positioning II RD 242
- Clinical Experience RD 285
- Area I Core Elective
- Area II Core Elective
- Total 15 17

**Upper Division**

- Clinical Experience RD 375
- Clinical Practicum RD 311, 321
- Radiographic Positioning III RD 316
- Special Radiographic Procedures RD 360
- Medical & Surgical Diseases RD 350
- Clinical Experience RD 385, 395
- Seminar in Radiologic Science RD 436
- Radiographic Positioning IV RD 320
- Area I Core Electives
- Area II Core Electives
- Total 18 17

### Baccalaureate Degree Curriculum

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

<table>
<thead>
<tr>
<th>Senior Year</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management and Organizational Theory MG 301</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Area II Core Elective</td>
<td>- 3</td>
<td>-</td>
</tr>
<tr>
<td>Management of Radiology Service RD 400, 401</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Imaging Modalities RD 402</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Area I Core Elective</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Organizational Behavior MG 401</td>
<td>- 3</td>
<td>-</td>
</tr>
<tr>
<td>Interviewing CM 307</td>
<td>- 3</td>
<td>-</td>
</tr>
<tr>
<td>Health Delivery Systems H 202</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical Economics and Finance H 405</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Principles of Education in Health Sciences H 406</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Radiographic Quality Assurance RD 408</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Total 18 18</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Course Offerings

#### RD RADIOLOGIC TECHNOLOGY

**Lower Division**

<table>
<thead>
<tr>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>RD 211 CLINICAL PRACTICUM (0.3-1)(F). Laboratory demonstration and practice of the radiographic positions and procedures discussed in RD 222. COREQ: RD 222.</td>
</tr>
<tr>
<td>RD 221 CLINICAL PRACTICUM (0.3-1)(F). Laboratory demonstration and practice of the radiographic positions and procedures discussed in RD 242. PREREQ: RD 222, RD 211. COREQ: RD 242.</td>
</tr>
<tr>
<td>RD 222 RADIOGRAPHIC POSITIONING I (4.0-4)(F). The basic concepts and procedures used in obtaining diagnostic radiographs of the upper and lower extremities, chest and abdomen. COREQ: RD 211.</td>
</tr>
<tr>
<td>RD 230 RADIATION BIOLOGY-PROTECTION (2.0-2)(S). General survey of radiation hazards and the potential consequences to both technologist and patient. The most appropriate means of minimizing the radiation dose will be emphasized. PREREQ: RD major or PERM/INST.</td>
</tr>
<tr>
<td>RD 234 INTRODUCTION TO RADIOGRAPHY CLINICAL EXPERIENCE (3.0-3)(F). Introduces the students to hospital structure, technical aspects of radiology, and medical ethics, and prepares the students for various professional and patient interactions prior to their hospital experience. PREREQ: RD major or PERM/INST.</td>
</tr>
<tr>
<td>RD 242 RADIOGRAPHIC POSITIONING (4.0-3)(S). Continuation of RD 222. The basic concepts and procedures used in obtaining diagnostic radiographs of the digestive and urinary systems, pelvic girdles, bony thorax and the spine. PREREQ: RD 222, RD 211. COREQ: RD 221.</td>
</tr>
<tr>
<td>RD 285 RADIOLOGIC TECHNOLOGY CLINICAL PRACTICUM (0.2-4)(S). Supervised clinical hospital experience. The student must complete 75% minimum of recently taught radiographic exams and a minimum 32 hours in darkroom and office procedures. PREREQ: RD 238.</td>
</tr>
<tr>
<td>RD 311 CLINICAL PRACTICUM (0.3-1)(F). Laboratory demonstration and practice of the radiographic positions discussed in RD 316. COREQ: RD 316.</td>
</tr>
<tr>
<td>RD 321 CLINICAL PRACTICUM (0.3-1)(S). Laboratory demonstration and practice of the special radiographic devices and techniques discussed in RD 320. COREQ: RD 320.</td>
</tr>
<tr>
<td>RD 350 MEDICAL AND SURGICAL DISEASES (3.0-3)(F). 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. PREREQ: RD 222, RD 242.</td>
</tr>
<tr>
<td>RD 360 SPECIAL RADIOGRAPHIC PROCEDURES (4.0-4)(F). Fundamental concepts of the more specialized radiographic examinations with emphasis on studies of the nervous and circulatory systems. PREREQ: RD Major or PERM/INST.</td>
</tr>
<tr>
<td>RD 375 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-280-5)(S). Supervised clinical hospital experience. The student must complete 70% of recently taught radiographic exams plus 50% continued competency exam list. PREREQ: RD 285.</td>
</tr>
<tr>
<td>RD 385 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0.360-6)(F). Supervised clinical hospital experience. The student must complete a minimum 40% of exams involving the skull, 40% exams in special procedures, and 50% continued competency exam list. PREREQ: RD 375.</td>
</tr>
<tr>
<td>RD 395 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0.360-6)(S). Supervised clinical hospital experience. The student must complete a minimum 40% of special procedures and 50% continued competency exam list. Plus rotation in minor affiliates. PREREQ: RD 385.</td>
</tr>
<tr>
<td>RD 397 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-280-5)(S). Supervised clinical hospital experience. Students rotate through several minor affiliates and complete a minimum 20% of continued competency exam list. PREREQ: RD 395.</td>
</tr>
<tr>
<td>RD 400 MANAGEMENT OF A RADIOLOGY DEPARTMENT (3.0-3)(F). Introduction to the set up and operation of a radiology department including design principles, operation of demands and providing for growth and development. Structural and infrastructure will be discussed. PREREQ: PERM/INST.</td>
</tr>
</tbody>
</table>
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 $15.50 as prepayment for student name pin and clinical insurance. This nonrefundable cost is payable by May 1.
   e. A $14.00 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, Rn 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.

Department Admission Requirements and Application Procedures
Respiratory Therapy Program

Requirements for Admission:

1. Preprofessional Year
   a. See University Admission Policy.

2. Professional Program
   a. Only students who have completed or are 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:
Respiratory Therapy Theory IV RT 322 .......................... 2
Respiratory Therapy Lab III RT 304 ......................... 1
Respiratory Therapy Lab IV RT 324 ......................... 1
Clinical Practicum III RT 308 .............................. 4
Clinical Practicum IV RT 328 .............................. 6
Radiologic Studies of the Respiratory System RT 305 ........................ 1
Pulmonary Medicine II RT 327 ............................ 3
Respiratory Cardiology RT 307 ........................... 2
Professional Seminar RT 398 .............................. 4
Principles of Pharmacotherapeutics RT 301 ................ 3

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:

RT 228 CLINICAL PRACTICUM II (0-12-3) (S). Experience in the hospitals with patients, techniques, and equipment used in hyperinflation therapy and chest physiotherapy. PREREQ: PERM/INST.

Upper Division

RT 301 PRINCIPLES OF PHARMACOTHERAPEUTICS (3-0-3) (F). Principles, practical uses and interactions of drugs and their relationship to disease. PREREQ: PERM/INST.

Course Offerings

RT RESPIRATORY THERAPY

Lower Division

RT 201 RESPIRATORY THERAPY CARDIOPULMONARY PHYSIOLOGY (4-0-4) (F). Normal physiological functions of the pulmonary and circulatory systems. PREREQ: PERM/INST.

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

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

RT 205 RESPIRATORY THERAPY NURSING ARTS I (1-0-1) (F). Nursing arts which pertain directly to respiratory therapy, including body mechanics, patient lifting and positioning. PREREQ: PERM/INST.

RT 208 CLINICAL PRACTICUM I (0-12-3) (F). Experience in the hospital with patients, techniques, and equipment. Emphasis on use of medical gases. PREREQ: PERM/INST.

RT 209 GENERAL PATHOLOGY (3-0-3) (F). Human pathology as pertains to systems of defense, modes of injury, diseases of development and function, heart, hematopoietic and lymphoreticular systems, and respiratory system. PREREQ: PERM/INST.

RT 213 EMERGENCY PROCEDURES IN RESPIRATORY CARE (1-0-1) (F). Theory and technique necessary in emergency respiratory care. PREREQ: PERM/INST.

RT 223 RESPIRATORY THERAPY THEORY II (2-0-2) (S). Principles, 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 227 PULMONARY MEDICINE I (1-0-1) (S). Ventilation, perfusion, compliance, resistance and pathophysiology of the lungs. PREREQ: PERM/INST.
Graduate College

Dean:
Kenneth M. Hollenbaugh, Ph.D.
Business Building, Room 307
Telephone (208) 385-3648

Graduate Program Coordinators

Business: Associate Dean, College of Business: Stewart Tubbs, Ph.D.
Education: Associate Dean, College of Education: Lamont S. Lyons, Ed.D.
Public Administration: Chairman, Department of Political Science: Willard Overgaard, Ph.D.

Programs

Boise State University offers the graduate degrees of Master of Business Administration, Master of Arts/Science in Education, Master of Public Administration.

Areas of Emphasis


The Master of Public Administration 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 programs or general graduate study as an unclassified graduate may be made at any time. It is recommended, however, that at least two months before the final enrollment, the Graduate Admissions Office will have received the application for admission and transcripts of all undergraduate and graduate work. This will provide sufficient time to process the application prior to the semester the applicant wished to commence graduate study. Petitions for exceptions will be directed to the Graduate Dean. 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. For that purpose the applicant should communicate with the Registrars concerned and then allow them sufficient time to process and mail the transcripts.

All documents received by the University in conjunction with such ap-
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 Bachelor degree from an accredited institution, or furnishes proof of equivalent education.
2. The applicant has maintained a grade point average which meets the minimal requirements of the college in which he wishes to enroll.
3. Completion of the predictive examination required by the department as listed under department criteria.
4. Recommendation for admission by the department in which the applicant expects to work and approval by the Graduate College.

Graduate Status Classification for Matriculated Students:

Applicants may be admitted to the Graduate College at Boise State University under two classifications:

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

Provisional Status: Applicants may be admitted to the Graduate College with provisional status if the department or academic unit in which they plan to study requires additional evidence of their qualification for admission with regular status. No student may maintain provisional status indefinitely. The department or academic unit concerned will normally make a final determination of students with provisional status by the time they have completed twelve credits of approved study.

Graduate Courses for Undergraduate Credit

Boise State University seniors may take up to two 500 level courses for Upper Division credit applied to their Bachelor Degree Program. The necessary permit forms are available through the Graduate Admissions Office the Registrar’s Office, and the office of each dean. 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, as these credits will not prejudice his graduation during that academic year. The necessary Senior Permit Forms are available at the Graduate Admissions Office and the office of each dean. Credits earned in this manner are “reserved” to count toward a graduate degree at BSU.

Scholarship Requirements

Academic excellence is expected of students doing graduate work. A student whose academic performance is not satisfactory may be withdrawn from the degree program by the Dean of the Graduate College upon the recommendation of the department or academic unit concerned.

To be eligible for a degree in the Graduate College, a student must achieve a grade point average of B (3.00) or better in all work exclusive of deficiencies, specifically included in his program of study. No grade below B may be used for any 300 or 400 level courses in a graduate program. Grades below 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 examination(s).

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 must have been taken in an accredited college or university. Only courses with A or B 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 sub-section “Challenging Courses, Granting Credit by Examination” apply to graduate courses. In particular, the decision to allow or not to allow challenges will be made by the department fielding the course to be challenged. For interdisciplinary courses, the decision will be made by the college officer in charge of the graduate program to which the course applies.

Program Admission and Continuation Requirements

Application for Predictive Examinations: Predictive examination scores may be required by certain departments. With respect to those departments which stipulate as part of the admissions criteria performance scores from predictive examinations, it is necessary that application be made without delay to take the examination. Education and Public Administration 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, 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.
Program Development Form: Graduate students in regular or provisional status will complete a Program Development Form with their advisor or committee before the end of the first academic period (summer, fall or spring) in which they take graduate work at Boise State University, after having been notified of admission in regular or provisional status.

The Program Development Form will be available from the colleges offering graduate degree programs. The advisor or committee will field the Program Development Form with the Graduate College upon completion. Each change in program must be completed by filing a new Program Development Form showing the changes from the previous form.

Any courses being offered as transfer credit, as credit reserved, or as residence credit through any inter-institutional cooperative program must be claimed at the time the Program Development Form is originally filed, or before the end of the first academic period (summer, fall or spring) after which the credit has been earned, whichever is the earlier date.

It is the responsibility of the graduate student to keep all program changes up to date for a graduate degree.

Time Limitations: All work offered toward a Master’s degree from Boise State University must be completed within a period of seven calendar years. The seven-year interval is to commence with the beginning of the oldest course (or other academic experience) for which credit is offered in a given Master Degree Program, and the interval must include the date of graduation when the Master degree from BSU is given.

Foreign Language Requirements: Language requirements are determined by the department concerned. If a foreign language is required, students must demonstrate that they possess a reading knowledge of a language specified by the department.

Thesis Requirements: The requirement of a thesis or similar project is determined by the department or interdisciplinary unit concerned. The final copy of the thesis must be reviewed by the student’s supervisory committee and submitted to the Dean of the Graduate College at least three weeks before commencement.

Candidacy: Students should apply for admission to candidacy and graduation as soon as they have completed twelve hours of graduate work with a grade point average of at least 3.00 in an approved graduate program of study, has removed all listed deficiencies, and has met any specific foreign language requirements.

Candidacy involves specifying, on the appropriate form, the list of courses and projects which comprise the student’s program. Changes in the planned program after admission to candidacy must be recommended in writing by the student’s committee or advisor and be approved by the Dean of the Graduate College.

Final Examination Requirements: The requirements of a final examination, written, oral, or both, in any non-thesis non-project program is optional with the department or interdisciplinary unit which field the student’s program. When the examination is required, it is administered by the unit concerned. The dates for these examinations are set by the Graduate College once each semester and summer session. They are listed in the calendar of the BSU catalog. A student is not eligible to apply for the final examination until he has been admitted to candidacy (filed the candidacy and graduation form.)

Failure in the examination will be considered terminal unless the supervisory committee recommends, and the Dean of the Graduate College approves, a re-examination. Only one re-examination is permitted. At least three months must elapse before a re-examination may be scheduled.

The requirement of a final examination in defense of any thesis or project is optional with the department or interdisciplinary unit concerned. When required, a final examination in defense of the thesis or project must be conducted at least three weeks before commencement. On a final examination in defense of a thesis or project, an additional member, who may be from outside the department or college, may be appointed by the Graduate Dean at his discretion. Application for the final comprehensive examination(s) is made through the office of the dean of the college fielding the program.

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

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

University-Wide Numbers of Graduate Offerings:

580-590 Selected topics
590 Practicum
591 Project
592 Colloquium
593 Research and Thesis
594 Extended Conference or Workshop (graded A-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

141
directed research credits, at the discretion of the graduate student's supervising committee or professor, through a limit of nine credit hours, with no more than six credits in any one semester. The College of Business has a limitation of three credits of internship and/or Directed Research for MBA students.

Undergraduate Courses for Graduate Credit: Other courses than graduate, numbered at the 300 or 400 levels, may be given g or G designation to carry graduate credit. The department or college concerned will have the right to limit the number of g or G credits which can count toward any degree for which it has responsibility, and in no case can more than one-third of the credits in a degree program be in courses at the 300 or 400 level. No course numbered below 500 carries credit unless the g or G is affixed.

1. G courses carry graduate credit only for graduate students in majors outside of the area of responsibility of the department or college.
2. G courses carry graduate credit for students both in the department or college and for other students as well.
3. Graduate students enrolled in G or g courses will be required to do extra work in order to receive graduate credit for the courses.

Application for Graduate Degree
The last step in completing a graduate program consists of arranging for final record checking. To accomplish this, one completes the form Application for Graduate Degree which can be obtained from the Graduate Admissions Office or from the Deans of Business and Education.

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

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

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

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

Specific Admission Requirements for Applicants: All applicants to the MPA program at Boise State University must meet the following requirements prior to enrollment in MPA courses:

1. Possession of a baccalaureate degree from an accredited institution.
2. Demonstration of satisfactory academic competency by attaining an overall GPA of 2.73 and recommendation for admission by the Department of Political Science. Students with a lower GPA may be admitted on provisional status on recommendation of the Department of Political Science with approval of the Graduate College. Final determination of the retention in the MPA program of a student with Provisional Status will be made after the completion of 12 credits of approved study, with the general requirements of a grade of B or better in the coursework taken.
3. Receipt of 3 letters of personal evaluation from individuals qualified to evaluate the applicant's academic potential. Evaluators may include current or former employers, as well as professors. The letters are to be addressed as follows: Chairman, Department of Political Science, Boise State University, Boise, Idaho 83725.
4. Submittal of a brief statement by the applicant indicating career objectives and the area of emphasis to be undertaken in the MPA program.
5. Completion of the following prerequisite courses in undergraduate preparation or their equivalent (applicable to all students applying for admission to the MPA program).
   - American National Government PO 101 3
   - State, Local Government PO 102 3
   - Introduction to Public Administration PO 303 3
   - At least three credits in each of two of the following areas: Sociology Economics Psychology
   - At least three credits in one of the following areas: Accounting Data Processing Social Statistics

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

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

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

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

An applicant planning to achieve an MPA degree at Boise State University must be accepted by the Graduate College of Boise State University. (The student is advised to consult the appropriate section of the Catalog for any special requirement or conditions prescribed by the Graduate College.)
The MPA degree may be achieved through the successful completion of at least 30 semester credit hours of approved coursework plus 6 credits of public service internship. Eighteen credit hours must be completed in courses selected from prescribed “core areas” with 12 additional credit hours completed in designated optional areas of emphasis. Students may follow a thesis or non-thesis option in pursuing the MPA. The thesis counts as 6 credits toward completion of the degree in lieu of coursework selected from the student’s area of emphasis. All MPA candidates must complete a final examination. Those following the thesis option will complete an oral examination covering the thesis and program coursework. The non-thesis option requires a written and oral examination over program coursework.

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

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

Core Area Requirements: At least 18 semester credit hours of coursework required in the MPA program are available through the following departments:

1. At least one course selected from each of the following core areas:
   a. Administrative Theory, Organization and Behavior
   b. Public Management Techniques
   c. Public Policy and Policy Analysis

2. At least one course from each of the following “core areas”:
   a. Administrative Law
   b. The Executive and the Administrative Process
   c. Intergovernmental Relations
   d. Community and Regional Planning
   e. Comparative Public Administration and Planning Systems

3. A sixth course is to be selected also from any one of the 8 “core areas” listed under items 1 and 2 above.

Optional Areas of Emphasis: At least 12 semester credit hours of coursework are to be taken in any one of the following areas of emphasis:

1. General Public Administration
2. Community, State & Regional Planning
3. Criminal Justice Administration
4. Public Health Administration
5. Public Finance, Budgeting & Administrative Management
6. Environmental & Natural Resources Administration
7. Local Government Administration
8. Human Services Administration

Public Service Internship: Those students with no work experience in government are to be assigned as public service interns. The internship is to be served in a government office at local, state, or federal levels, or in appropriate organizations which are concerned with governmental affairs, such as private foundations and community institutions. Credit provided for the internship shall be in addition to the 30 semester credit hours of coursework required in the MPA program. The internship component will comprise 6 semester hours.

Course Selection

<table>
<thead>
<tr>
<th>Designated Core Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Administrative Theory, Organization, and Behavior: Organization Theory &amp; Bureaucratic Structure PO 487G</td>
</tr>
<tr>
<td>c. Public Policy and Policy Analysis: Public Policy Formulation &amp; Implementation PO 520</td>
</tr>
<tr>
<td>d. Administrative Law: Administrative Law PO 467G</td>
</tr>
<tr>
<td>e. The Executive &amp; the Administrative Process: The Role of the Executive in Policy Making PO 530</td>
</tr>
<tr>
<td>f. Intergovernmental Relations: Intergovernmental Relations PO 469G</td>
</tr>
<tr>
<td>g. Community &amp; Regional Planning: Comparative Public Administration PO 565</td>
</tr>
</tbody>
</table>

Optional “Areas of Emphasis”

<table>
<thead>
<tr>
<th>Designated Core Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. General Public Administration: This area of emphasis is provided to accommodate those students desiring preparation in public administration as a “generalist” rather than a “specialist” in a particular area of specialization. At BSU the student may select the remaining 12 credit hours of coursework from the courses listed below:</td>
</tr>
<tr>
<td>b. Community, State &amp; Regional Planning: (No course offering yet provided at BSU)</td>
</tr>
<tr>
<td>c. Criminal Justice Administration: Special Programs in Correctional Treatment CR 510, Special Problems of the Juvenile and Youthful Offender CR 511, Reading and Seminar CR 595, Seminar in Criminal Justice Administration CR 598</td>
</tr>
<tr>
<td>d. Public Health Administration: (Planned, but no course offering yet provided at BSU in the MPA program.)</td>
</tr>
<tr>
<td>e. Environmental and Natural Resources Administration: (No course offering yet provided at BSU in the MPA program.)</td>
</tr>
<tr>
<td>f. Local Government Administration: (Planned for future implementation as an area of emphasis at BSU.)</td>
</tr>
<tr>
<td>g. Public Finance, Budgeting, and Administrative Management: (Planned for future implementation as an area of emphasis at BSU.)</td>
</tr>
</tbody>
</table>

Course Offerings

PO POLITICAL SCIENCE COURSES

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

PO 465G COMPARATIVE PUBLIC ADMINISTRATION (3-0-3)(F/S).
PO 467G ADMINISTRATIVE LAW (3-0-3)(F/S).
PO 469G INTERGOVERNMENTAL RELATIONS (3-0-3)(F/S).
PO 487G ORGANIZATIONAL THEORY AND BUREAUCRATIC STRUCTURES (3-0-3)(F/S).

Graduate

PO 510 FISCAL PROCESSES AND PUBLIC BUDGETING PROCESS (3-0-3)(F/S). Determination of fiscal policy, budgeting processes, and governmental forms of budgeting. Consideration of fiscal policy and processes in various program areas. Emphasis on the interface between technical and political processes.

PO 511 PROGRAM EVALUATION AND QUANTITATIVE ANALYSIS (3-0-3)(F/S). Application of social science research to administrative problems, including practical methods of gathering, analyzing, and interpreting data. Theory and basic techniques underlying quantitative analysis of public programs.

PO 520 PUBLIC POLICY FORMULATION AND IMPLEMENTATION (3-0-3)(F/S). Process of policy-making both within an agency and within the total governmental process, emphasizing policy and program planning, policy implementation and the value system of administrators.

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

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

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

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

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

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

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

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

CR CRIMINAL JUSTICE ADMINISTRATION COURSES

Graduate


CR 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). Examination, evaluation and research regarding contemporary problems in the criminal justice system. Students will be required to do extensive reading and inquiry into special areas of concern and interest.

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

CR 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). 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, Geology

A Cooperative Graduate Studies Program

Idaho State University and Boise State University have a cooperative agreement which allows Boise area residents to enroll in the Idaho State University Master of Science program in Geology. Students enrolled in Idaho State University and Boise State University graduate classes may complete all but 12 of the necessary credit hours while in residence at BSU. Additionally, students may initiate and complete a thesis in residence at BSU; the thesis committee will consist of faculty members from both universities. A minimum of 12 credit hours (one semester) are to be completed in residence at ISU, and the degree will be awarded by Idaho State University.

Admission Requirements: Application for admission may be made by graduates of accredited institutions holding a baccalaureate degree in Geology or related geoscience. Regular admission will be awarded to applicants who have earned a minimum grade point average of 2.75 during the last two years of academic work. Continued enrollment in the program requires a minimum 3.0 grade point average and satisfactory progress toward the degree.

Additional information may be obtained from Dr. Claude Spinosa, Chairman, Department of Geology and Geophysics, Boise State University, or from Dr. Paul K. Link, Chairman, Department of Geology, Idaho State University.

Course Offerings

The following Boise State University courses may be included. Course descriptions for undergraduate courses are included in the listing for the Department of Geology and Geophysics earlier in this Catalog. Course descriptions for graduate courses are listed under the Master of Science in Education, Earth Science Emphasis, program description.
Graduate Programs, 
College of Business 
Master of Business Administration 

Objectives 
The objective of the Boise State University program leading to this graduate degree is to further prepare candidates for careers in their chosen field. The MBA degree emphasizes the traditional approach of the development of managerial generalists, with a common body of functional knowledge given to all students. While there is no area of emphasis or major available in the MBA program, once a student satisfies the functional core of courses, electives to achieve a minor degree of concentration are possible.

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 prerequisite knowledge in basic fields of Business Administration. Students presenting 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 Bachelor's degree in non-Business fields such as the Sciences, Engineering, and the Liberal Arts. Therefore, the students must demonstrate proficiency in prerequisites. These prerequisites may be fulfilled by satisfactory completion of coursework in these areas, or by successfully passing the acceptable CLEP examination, and any other local departmental requirements.

Specific Prerequisites for Applicants: All applicants must meet the following undergraduate requirements or must fulfill these requirements prior to enrolling in Master 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 1000 minimum or 2) 200 x junior/senior GPA plus GMAT score must equal 1050 minimum.
3. For foreign students, in addition to the above formulae minima, a score of 550 on the TOEFL, or its equivalent, is necessary.
4. Prerequisites:
   a. Accounting (equivalent to one year)
   b. Economics (equivalent to one year)
   c. College level Mathematics (equivalent to one year)
   d. Management
   e. Legal and Social Environment
   f. Marketing
   g. Finance
   h. Production Management
   i. Information Science/MIS
   j. Business Statistics
   k. Business writing proficiency—must be demonstrated by passing a proficiency test. Failure to pass this test will require enrollment in AS 328 Business Communication or its equivalent.

Students who are deficient in any prerequisite courses must remove these deficiencies prior to enrollment in Master level courses. Enrollment in courses without having removed all deficiencies will subject the student to administrative withdrawal, with no recourse, from these Master courses.

The student may be required to remove other deficiencies (such as Organizational Theory, Ethics, or Behavior) as determined by the College of Business.

5. All applicants must be accepted by the Graduate College of Boise State University in order to achieve the Master degree.

Degree Requirements 

The MBA Degree 
The Master of Business Administration degree consists of a minimum of 30 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.

Required Core Courses .................................................. 21-24
Electives ........................................................................ 9-6

NOTE: A student with a major in a functional Business discipline such as Management, Marketing, Finance, Economics, Organization Behavior, or Accounting should not take the core course in that discipline, and may substitute an MBA elective in its place.

Students may elect a maximum of 6 credit hours from the 400 level "C" 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 

MBA—Required Core Courses:

CB 510 BUSINESS AND SOCIETY (3-0-3)(F/S). Examination of the interaction between business and the economic, social, political and legal order, both domestic and worldwide. By utilizing analysis of particular situations, it focuses attention on the broad effects of this total environment upon the administration of business.

*DS 512 BUSINESS AND ITS ENVIRONMENT (3-0-3)(Alternate Semesters). 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 Bayesian decision theory. PREREQ: DS 207, IS 210, MG 301 or equivalent courses.

*DS 514 OPERATIONS RESEARCH METHODS FOR DECISION MAKING (3-0-3)(Alternate semesters). An introduction to operations research, applying quantitative tools and interpreting the results. Particular attention is given to using the computer to analyze quantitative models. Typical areas covered are: linear programming, network models, and inventory control theory. PREREQ: graduate standing, DS 207, IS 210 and MG 301 or equivalent courses.

*Student selects either DS 512 or DS 514.

MK 519 MARKETING MANAGEMENT CONCEPTS (3-0-3)(F/S). Interdisciplinary analytical integration of marketing management concepts and theories with the organization and its environment. Emphasis on identifying opportunities, problems, selection and development of alternatives, formulation and implementation of strategies, plans, programs. Consumer, industrial, institutional and international markets included.

Graduate College
Graduate Programs, College of Education

Master of Arts or Science in Education

A Master's degree in Education with emphases in the subject areas of Art, Business Education, Earth Science, English, History, Mathematics, Music, Curriculum & Instruction, Reading, Special Education and Early Childhood is presented through the Department of Teacher Education, the related subject department 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, $10.00 matriculation 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.

Admission will be granted to applicants who hold a Bachelor's degree from an accredited college or university and who have some professional relationship to instruction. Candidates must show promise of meeting the standards set by the College of Education as well as the specific regulations of the particular program for which they apply.

Applicants 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 warranted and deemed appropriate.

The name of the faculty member who will serve as chairperson of the candidate's 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 prior to acceptance in the planned program.

A maximum of nine semester graduate credits may be accepted from other 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 workshop credits will be allowed in the degree program. No variation from these requirements will be permitted.

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/her program. The candidate, in cooperation with the advisor, will choose courses which will meet the individual's needs as a teacher. Specific courses are listed within each area of emphasis.

Those students selecting one of the following areas of emphasis will follow the procedures set forth by respective departments: Art, Business Education (Dept. of Marketing and Administrative Services), Earth Science (Dept. of Geology/Geophysics), English, History, Mathematics and Music.

Graduate Core

5. Elective options (choose I or II, below) ........................................... 9

I. Thesis-Project Option
   Fundamentals of Educ Research for Teachers TE 551 .................. 3
   Thesis-Project TE 591-593 .................................................... 6

II. Comprehensive Written Examination Option
   Either
   Fundamentals of Educ Research for Teachers TE 551 ............. 3
   Or
   Interpreting Educational Research (part of core) ................. 1
   Electives ................................................................................ 6 or 9
   TOTAL CREDITS ...................................................................... 33

Early Childhood Education Emphasis

Required Courses:
1. Graduate Core TE 570-571 ......................................................... 6
2. Conflicting Values TE 563 ......................................................... 1
3. Two electives from one-credit core course (TE 565 Int. Ed. Res. 
   required for option II) ......................................................... 2
4. Early Childhood: Readings TE 543 ............................................. 3

Two of the following three courses (6):
   Early Childhood: Adv. Child Development TE 544 ....... 3
   Early Childhood: Environments & Programs TE 546 ....... 3
   Early Childhood: Language Acquisition & Dev. TE 547 .... 3

Early Childhood: Practicum TE 590 .............................................. 2-4

I. Thesis-Project Option
   Fundamentals of Educ Rsch for Tchrs TE 551 ...................... 3
   Thesis-Project TE 591-593 .................................................... 6
   Electives ................................................................................ 2-3

II. Comprehensive Written Exam Option
   Interpreting Educational Rsch TE 565 (part of core) ......... 12
   Electives ................................................................................ 32-34

Special Education

For those Primarily Responsible for Elementary School Instruction

I. Special Education Emphasis for Mild-Moderate Handicapped

Required Courses
1. Graduate Core ................................................................. 9
2. Development of Skills for Teaching Pupils with
   Learning Difficulties ....................................................... 3
3. The Emotionally Disturbed Child in the Classroom TE 523 3
4. Practicum in Special Education TE 590 ......................... 4

Counseling and Consulting in the Elementary and 
Counseling Skills TE 514 ...................................................... 3

Electives selected from courses listed below:
   Behavior Intervention Techniques TE 450G ....................... 3
   Instructional Materials for the Exceptional Child TE 440 ...... 3
   Diagnosis of Reading Problems TE 502 ......................... 3
   Remediation of Reading Problems TE 503 ................. 3
   Individual Tests & Measurements TE 505 ..................... 3
   Physical Education in Special Education PE 594 ............ 2

Elective Options. Choose I or II below:
   I. Thesis-Project Option
      Fundamentals of Educ Rsch for Teachers TE 551 .......... 3
      Thesis-Project TE 591-593 ........................................... 6
      Electives ........................................................................ 3

   II. Comprehensive Written Exam Option
      Fundamentals of Educ Rsch for Teachers TE 551 ......... 3
      Or
      Interpreting Educational Research TE 565 .................. 1
      Electives ........................................................................ 9
      Total Credits .................................................................... 33

II. Special Education Emphasis for Severely Handicapped

Table listing courses and credits for each option (Option I and Option II) is included in the document.
Graduate College

Required Courses

Graduate Core ...................................•......... '9
1. Graduate Core 9
2. Survey of Reading Instruction TE 501 ............ 3
3. Diagnosis of Reading Problems TE 502 ............ 3
4. Remediation of Reading Problems TE 503 ............ 3
5. Seminar in Reading TE 504 ......................... '3
6. Elective Options. (Choose I or II below) .......... 9

Electives selected from courses listed below:
Teaching the Severely Handicapped TE 423G ............ 3
Instructional Materials for the Exceptional Child TE 440 .... 3
Child Behavior in Early Childhood Education TE 461 .... 3
Curriculum in Early Childhood Education TE 462 .... 3
Individual Tests & Measurements TE 505 ............ 3
Physical Education in Special Education PE 594 .......... 2
Elective Options. Choose I or II below.

I. Thesis-Project Option
Fundamentals of Educ Research for Teachers TE 551 .... 3
Thesis-Project TE 591-593 ................................. 6
Electives .................................................. 3
II. Comprehensive Written Exam Option
Fundamentals of Educ Research for Teachers TE 551 .... 3
Or
Interpreting Educational Research (core) E 565 .... 1
Electives .................................................. 9
Total Credits 34

For Those Primarily Responsible for Secondary School Instruction

III. Secondary Education Special Education Emphasis

Required Courses

Graduate Core ...................................•......... '9
1. The Emotionally Disturbed Child in the Classroom TE 523 .... 3
2. Teaching Skills for Remediation of Learning Disabled Students TE 515 .......... 3
Or
Development of Skills for Teaching Moderately/ Severely Handicapped TE 517 .......... 3
Behavior Intervention Techniques TE 450G .......... 3
Practicum in Special Education TE 590 .......... 4
Electives .................................................. 22
Individual Tests & Measurements TE 505 .......... 3
Internship in Secondary Special Education TE 594 .... 3
Directed Research in Secondary Special Education TE 596 .... 3
Elective Options. Choose I or II below.

I. Thesis-Project Option
Fundamentals of Educ Research for Teachers TE 551 .... 3
Thesis-Project TE 591-593 ................................. 6
Electives .................................................. 3
II. Comprehensive Written Exam Option
Fundamentals of Educ Research for Teachers TE 551 .... 3
Or
Interpreting Educational Research (Core) E 565 .... 1
Electives .................................................. 9
Total Credits 34

Course Offerings

PE PHYSICAL EDUCATION

Undergraduate

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

PE 401G PSYCHOLOGY OF ACTIVITY (3-0-3)(F/S).
PE 402G ADVANCED ATHLETIC TRAINING (3-3-3)(S).

Graduate

PE 521 ELEMENTARY PHYSICAL EDUCATION ACTIVITIES (3-0-3)(SU). Alternate years. Methods and techniques for classroom and will be presented. Emphasis upon corrective physical education procedures will be given.

PE 594 PHYSICAL EDUCATION IN SPECIAL EDUCATION (2-0-2)(SU). The course is designed to acquaint students with the theories of motor perceptual activity as well as to involve them in a hands-on approach to activity. The students will develop skills in indentifying motor problems and plan the remedial needs for correction.

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)(F).

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 will be given. Special emphasis will be given to group behavior in terms of principles relevant to educational objectives. PREREQ: P 201 and P 325. Offered on demand.

P 503 INDIVIDUAL TESTING PRACTICUM (3-0-3)(S). Emphasis on administering and scoring intelligence tests and on test interpretation. PREREQ: M 115-116, P 305, P 421, PERM/INST. Offered odd numbered years.

P 504 ANALYSIS OF THE INDIVIDUAL (3-0-3). A study of techniques used in analyzing the individual with an emphasis on the elementary level. The course includes observational methods, recording behavior, behavioral analysis, interviewing and use of test information PREREQ: P 202. Offered on demand.
P 505 PERSONALITY DEVELOPMENT (3-0-3S). Critical consideration of the main personality theories, particularly those which emphasize current concepts regarding learning, perception and motivation is developed. 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 423G TEACHING THE MODERATELY AND SEVERELY HANDICAPPED (3-0-3S).

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

Graduate

TE 501 ADVANCED PRACTICES AND PRINCIPLES OF TEACHING READING (3-0-3).
The total reading process is examined. Areas such as readiness, grouping, methodologies, new approaches, dictionary, word attack, and comprehension skills are emphasized. Standardized and informal testing procedures are discussed.

TE 502 DIAGNOSIS OF READING PROBLEMS (3-0-3). The role of the special reading teacher and his type of screening devices is developed. Various standardized and informal reading tests are put into practice by working with a child in the Reading Center. A case study culminates the course. PREREQ: TE 501.

TE 503 REMEDIATION OF READING PROBLEMS (DIRECTED EXPERIENCES IN THE READING CENTER)(3-0-3S). Remediation approaches and techniques for disabled readers are emphasized. Training is fostered by tutoring a child under supervision in the Reading Center.

TE 504 SEMINAR IN READING EDUCATION (3-0-3)(FSU). The significant research concerning all phases of reading are abstracted and discussed in small group settings. Instruction in how to read reading research is included. Instruction in reading research is developed. PREREQ: TE 503.

TE 505 INDIVIDUAL TESTS & MEASUREMENTS (3-0-3S). An intense investigation is pursued in the area of measurement theory followed by practical applications in individual testing and student diagnosis.

TE 507 RELATING READING PROCESS TO SECONDARY SCHOOL SUBJECTS (3-0-3). This course is designed for secondary teachers in all academic areas who desire to develop efficient methods of utilizing instructional materials in their content subjects.

TE 508 TEACHING READING IN THE SECONDARY SCHOOL (3-0-3S). The course is designed for reading specialists in junior and senior high schools. Specific methods and materials of testing and instruction of students with reading problems will be emphasized. Various standardized and informal tests will be studied and analyzed. Several corrective techniques will be demonstrated and analyzed.

TE 510 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING SOCIAL SCIENCE (3-0-3F). A comprehensive study of the practices and principles in social science education, including objectives, social problems, unit development, work-study skills, organization of materials and media, and research findings basic to social studies will be developed.

TE 511 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING ELEMENTARY SCHOOL MATHEMATICS (3-0-3S). Emphasis on creative methods and strategies for teaching elementary school mathematics. Includes a review of current research, curriculum trends and exploration of experimentation with unique materials for teaching mathematics.

TE 512 ADVANCED PRACTICES AND PRACTICES IN TEACHING LANGUAGE ARTS AND LINGUISTICS (3-0-3F). 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 (3-0-3F). Current practices and principles in modern elementary science concepts are developed. Emphasis is placed on the selection and organization of content and experimental activities.

TE 514 COUNSELING SKILLS FOR EDUCATORS (3-1-3S). The emphasis of this course shall be directed at the development of effective strategies to deal with parents, students, and peers. Major concerns to be addressed will include parent-teacher counseling and advising, development of communication skills, and conducting intervention techniques. (PREREQ: Graduate status or PERM/INST.)

TE 515 TEACHING SKILLS FOR REMEDIATION OF LEARNING DISABLED STUDENT (3-0-3F). An advanced course in developing skills and techniques in the educational planning and remediation of students with learning disabilities.

TE 516 TEACHING GIFTED AND TALENTED STUDENTS (3-0-3S). Teachers and others working with the instructional needs of gifted and talented students will develop skills in the techniques of meeting the educational goals of these exceptional individuals. Methods and materials for this approach will be evaluated as to application and assessment.

TE 517 DEVELOPMENT OF SKILLS FOR TEACHING MODERATELY SEVERELY HANDICAPPED (3-0-3S). The techniques and methods applicable for use by teachers of the moderately/severely handicapped. Current issues, philosophies, and research implications for teaching will be emphasized. PREREQ: TE 423, PERMINST.

TE 518 TECHNIQUES FOR CREATIVE WRITING IN ELEMENTARY SCHOOLS (3-0-3S). Methods and techniques for encouraging creative writing in the elementary school.

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

TE 520 EDUCATIONAL MEDIA (3-0-3S). This course will acquaint the elementary classroom teacher with the latest educational media available for use. Evaluation of the materials in a media center will be studied. Emphasis upon the use of a curriculum resource center in the local school system will be made every other year.

TE 521 ELEMENTARY PHYSICAL EDUCATION ACTIVITIES (3-0-3S). Methods and techniques for classroom and playground activities for physical education, curriculum development will be presented. Emphasis upon corrective physical education procedures will be given. Alternate years.

TE 522 INDIVIDUALIZATION OF READING INSTRUCTION (3-0-3S). 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 531 EDUCATION FOR THE CULTURALLY DIFFERENT LEARNER (3-0-3S). A study of the development of children and adolescents in different cultures in comparative relationship to existing values. The lifestyle of various minority groups and implications for education will be examined. Major topics include culturally different learner; (1) learning styles, (2) media, (3) process of change. Idaho minority groups will be emphasized.

TE 541 EDUCATION IN EMERGING NATIONS (3-0-3F). The course provides an analysis of the relationship between national goals and the educational system in the 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 543 EARLY CHILDHOOD: READINGS (3-0-3S). Past and current research in early childhood education will be reviewed and synthesized in a seminar format. Students will determine a specific research area to study in depth.

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

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

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

TE 551 FUNDAMENTALS OF EDUCATIONAL RESEARCH FOR TEACHERS (3-0-3F). The planning of educational research with emphasis on the nature of scientific inquiry, formulating research and evaluation plans, and critiquing published research.

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

TE 559 PHILOSOPHY OF EDUCATION (3-0-3S). Students will analyze and evaluate past and contemporary philosophies and ideologies and values derived from them as they apply to education.

TE 563 CONFLICTING VALUES INFLUENCING EDUCATION (1-0-1S). 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, 571.

TE 564 CREATIVE TEACHING—SECONDARY SCHOOLS (1-0-1S). The course will explore various approaches to classroom teaching methodology and at-
Master of Arts in Education—Art Emphasis

1. The Master's Degree in Education, Art Education Emphasis, will be designed to meet the needs of the practicing junior high or high school art specialist. While teaching experience is not necessary in order to begin work on this degree, any applicant for the degree must ordinarily be currently certified as a school art specialist, agree to begin the process toward attaining this certification while working on the degree, or obtain a waiver through the Department of Education.

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
      Special Methods: Curric & Develop in Art Educ AR 551
      Project AR 591
      OR
      Thesis (or additional hours) AR 593
      Education Core courses TE 570
   b. Studio or Content; Six (6) credits in the studio. Studio concentration and emphasis will be determined by the student and his committee.
   c. Electives: The remainder of the student's work may be elected in relation to his background, interests, and professional objectives in consultation with his major advisor and committee.

Course Offerings

AR-ART

Graduate

AR 501 ART APPRECIATION IN THE EDUCATIONAL PROGRAM (3-0-3)F. Emphasis will be placed on understanding the motivations behind interpretation of ideas and symbols. Also emphasized will be communication of this understanding to the various age groups represented on the secondary school level. PREREQ: Graduate status or PERM/INST.

AR 521 TEACHING THROUGH EXPERIMENTAL ART MEDIA (0-6-3)SU. (Previously approved for Elementary Master's Degree). Varied and unusual experimental art media to be used in conjunction with individual teaching techniques. Students will have the opportunity to solve procedural problems and adapt art media to teaching experiences. Some outside reading will be required, as well as written paper. PREREQ: Graduate standing. Summers only by request.

AR 522 TEACHING THROUGH EXPERIMENTAL ART MEDIA (0-6-3)SU. Varied and unusual experimental art media to be used in conjunction with individual teaching techniques. Students will have the opportunity to solve procedural problems and adapt art media to teaching experiences. Some outside reading will be required, as well as written paper. PREREQ: Graduate standing. Summers only by request. Alternate years.

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 projects.
   1. A scholarly paper embodying results of original research which are used to substantiate a specific view.
   2. Three written reports directed toward the student's particular area of study.
   3. A curricular proposal in written form which could be considered for implementation in the schools.
   4. A one-person art show with a faculty review.
5. A submitted portfolio of work with a full faculty review.
PREREQ: Graduate status.
AR 598 SEMINAR IN ART (3-0-3S). (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 Arts in Education—
Business Education Emphasis

Admissions and Program

1. The Master's degree program is designed to meet the needs of business teachers. Because of the large number of business courses offered at the secondary level and because of the unique 'delivery systems' at that level, the program is designed with the flexibility and breadth considered necessary to meet a wide range of needs of those students enrolling.

Admission will be granted to applicants who hold a bachelor's degree from an accredited college or university and who meet the admission requirements for the degree.

Before Advancement to Candidacy can be granted, the student must:
a. ordinarily show eligibility for certification by the State of Idaho (or any other state), and
b. have completed the following prerequisite courses or their equivalent:
   Principles of Accounting AC 205,206 .............................................. 6
   Principles of Economics EC 201,202 .............................................. 6
   Legal Environment of Business GB 202 ........................................ 3
   Intro Information Science IS 210 .................................................. 3
   Princ of Marketing MK 301 .......................................................... 3

2. Program Requirements: A maximum of 14 credit hours may be taken from the College of Business courses (excluding BE courses).
   a. Business Core Courses ......................................................... .6
   b. Business Courses .............................................................. .12 credits chosen from 1) Business Education
      BE 511 Graduate Study in Business Education (required) ........ 3
      BE 520 Curr and Instr in Shorthand, Transcription & Office Procedures .................. 3
      BE 530 Curr and Instr in Typewriting, Bookkeeping & Accounting .................. 3
      BE 540 Curr and Instr in Basic Business and Economics .................. 3
      BE 571 Organization and Supervision of Business Education ............. 3
      BE 596 Directed Research ................................................... 3
      BE 599 Workshop in Business Education ................................... 1-3
      AS 501 Office Systems and Procedures ................................... 3
      BE 441G Principles and Organization of Voc Ed Programs .............. 3
      BE 443G Admin and Coord of Cooperative Programs ...................... 3
      BE 597 Special Topics .......................................................... 3
   2) Business Administration ................................................... Minimum of 6 credits
      Chosen from MBA courses and/or "G" courses offered by Departments of Accounting, Economics, Information and Decision Sciences and Finance, Management, and Administrative Services, and Mathematics.
   c. Free Electives ................................................................. 9
   d. Option of:
      Thesis—BE 593 ................................................................. 3-6
      Project—BE 591 ................................................................. 3-6
      Additional coursework ....................................................... 3-6

3. Any approved 400-level "G" courses limited to 6 credits.

Course Offerings

1. Required Courses:
a. TE 570 Graduate Core Courses ............................................. 6
b. Graduate Study in Business Education .................................... 3
c. BE 593 Thesis or BE 591 Project ............................................. 3-6

The Department recommends a thesis or project. However, the option of additional hours in Business Education is available upon approval of the Committee Chairperson.

2. Elective Courses:

Additional courses as selected by the student and his graduate committee to meet program requirements.

ADDITIONAL INFORMATION

1. Culminating Activity and Examination. Students electing a thesis as a culminating activity will take an oral examination covering the thesis. Students electing additional course work will take a written and/or oral examination covering course work completed in their degree program.

2. While any Master of Business Administration course may be used in the requirement outline in 2.b.2, above, the following are considered to be courses most likely to be chosen:
   GB 510 Business and its Environment
   AS 512 Business Research and Communications
   MG 510 Human Resources Management
   EC 560 Economics of Public Policy

For additional details contact Department Chairperson, Department of Marketing and Administrative Services, (208) 385-3451.

Course Offerings

BE—BUSINESS EDUCATION

Undergraduate

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

BE 441—441G PRINCIPLES AND ORGANIZATION OF VOCATIONAL EDUCATION PROGRAMS—JOB ANALYSIS (3-0-3).

BE 443—443G ADMINISTRATION AND COORDINATION OF COOPERATIVE PROGRAMS (3-0-3).

Graduate

BE 511 GRADUATE STUDY IN BUSINESS EDUCATION (3-0-3). Study of professional business education including history, philosophy, psychology, and issues and trends. Each area is considered in relation to business education in the public schools. PREREQ: Graduate status and PERM/INST.

BE 520 CURRICULUM AND INSTRUCTION IN SHORTHAND, TRANSCRIPTION, AND OFFICE PROCEDURES (3-0-3). Study of various techniques available for the improvement of instruction in shorthand, transcription, and office procedures. Includes an analysis of research and its application to the improvement of instruction. Also includes the application of psychological principles of learning and other technical aspects of instruction. PREREQ: PERM/INST.

BE 530 CURRICULUM AND INSTRUCTION IN TYPEWRITING, BOOKKEEPING—ACCOUNTING AND DATA PROCESSING (3-0-3). A study of various techniques available for the improvement of instruction in bookkeeping—accounting, data processing, and typewriting. Includes an analysis of research and its application to the improvement of instruction. Also includes the application of psychological principles of learning and other technical aspects of instruction. PREREQ: PERM/INST.

BE 540 CURRICULUM AND INSTRUCTION IN BASIC BUSINESS AND ECONOMICS (3-0-3). A study of various techniques available for the improvement of instruction in basic business and economics. Includes an analysis of research and its application to the improvement of instruction. Also includes the application of psychological principles of learning and other technical aspects of instruction. PREREQ: PERM/INST.

BE 571 ORGANIZATION AND SUPERVISION OF BUSINESS EDUCATION (3-0-3). Administrative and supervisory problems in business education especially from the point of view of the teacher. A study of problems of the business teacher beyond those involved in classroom teaching. Areas of study include student services; equipment and supplies; in-service programs; research; program evaluation and development; public and staff relations. PREREQ: PERM/INST.

BE 591 PROJECTS (3-6 credits).

BE 593 THESIS (3-6). The scholarly pursuit of original work through research. PREREQ: Admission to candidacy.
Master of Science in Education—Earth Science Emphasis

The curriculum for the Master of Science in Education, Earth Science emphasis, is intended to provide education for earth science teachers with the course offerings stressing current data and developments in the earth sciences discipline. The planning, preparation, and conducting of laboratory investigations and outdoor field trip activities are emphasized. Because of the great variety of background of present secondary earth science teachers, the course offerings have been chosen and designed to allow maximum flexibility in planning individual programs. A preliminary examination, oral or written, will be administered to each candidate.

Required courses include TE 570, TE 563, GO 598 and a final 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 his graduate committee. A final comprehensive oral or written examination over course work and the thesis or project is required.

Course Offerings

GO—GEOLOGY

Undergraduate

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

GO 403 ENGINEERING GEOLOGY (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/SU).

Graduate

GO 511 ENVIRONMENTAL GEOLOGY (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 report required, field trips required. This course can be taken for undergraduate credit by filing necessary forms.

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

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

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

GO 551 CURRENT TOPICS IN GEOLOGY (3-0-3)(S). An investigation of current research, debates and developments regarding practical, as well as theoretical, issues in Geological Science.

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.

GO 571 GEOCHEMISTRY (3-0-3)(S). Field trip required. 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, isotopic geochemistry. This course can be taken for undergraduate credit by filing necessary forms.

GO 591 PROJECT (7-3 to 0-6). A field, laboratory or library investigation. The student will select a project according to his own interest and pursue it to a logical conclusion. Weekly progress meetings are held with the instructor and a final report is required.

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

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.

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 Arts in Education—English Emphasis

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 school requirements will be accepted as regular graduate students. Students who do not have the required upper division English work will be admitted on a provisional basis and will be advised what steps to take to qualify for regular status.

Program Requirements

The course of study for the Master of Education with an English emphasis will consist of a minimum of 33 hours to be chosen by the student and their advisory committee from one of two alternatives.

1. An introductory seminar, twelve hours of graduate English courses, a thesis or project six hours from the Education core, and nine hours of general graduate electives. At least nine hours of the English courses must be at the 500 level.

2. An introductory seminar, fifteen hours of graduate English courses, six hours from the Education core, nine hours of general graduate electives and a written and oral examination on graduate English coursework. At least twelve hours of the English courses must be at the 500 level.

Graduate Core (TE 570) 6

General Graduate electives (may include E 501) 9

Total 33

Application should be made to the Graduate School for approval.

Programs and Requirements

Graduate College
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 and minor 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 carry 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**

**E ENGLISH**

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

E 487 MODERN BRITISH AND AMERICAN POETRY (3-0-3)(F/S).

E 488G METHODS AND THEORIES OF LITERARY CRITICISM (3-0-3)(S).

**Graduate**

E 500 INTRODUCTORY SEMINAR (3-0-3)(F/S). An introduction to bibliography and orientation to sources of information. Students research a concept or problem in literature or writing under supervision. PREREQ: Admission to graduate program or PERM/CHMN.

E 501 THEN TEACHING OF WRITING (3-0-3)(S). Theories and methods of teaching writing for experienced teachers. Special emphasis on new discoveries about the learning process in writing courses and in the teacher’s role in helping individual students. PREREQ: E 301, E 500, and teaching experience or PERM/CHMN.

E 505 LINGUISTICS (3-0-3)(F/S). Modern linguistic theories and their application to literature and teaching English. An examination of how various grammatical models represent the complexities of language sound, sequence, and structure. Application of theory to language at work. PREREQ: E 100 and LI 105 or equivalent or PERM/CHMN.

E 510 MAJOR AUTHOR (3-0-3)(F/S). A consideration of minor and major artistic creations of an author with attention devoted to major influences on the writer and his influences on others. Aspects of investigation to include the life of the author and its relation to his work, the society and culture of the times, 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/CHMN.

E 520 GENRE (3-0-3)(F/S). A study of a well-defined literary category, such as novel, short story, epic or tragedy. Examination of representative texts in order to discover the nature of a specific literary genre and the distinctive characteristics of its subgenres. PREREQ: E 500 or PERM/CHMN.

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

E 540 MYTH IN LITERATURE (3-0-3)(S). An exploration of the use of myth in literature as a source of content and structure. The nature and working of myth and the way it enters conscious creation of art. Themes such as the quest, the initiation, the Adamic myth in American literature of myths in the works of major authors may be explored. PREREQ: E 500 or PERM/CHMN.

E 550 LITERATURE AND CULTURE (3-0-3)(F/S). The interaction between a body of literature and the social, economic and political forces that characterize the culture in which it originated. The influence of culture on literary form and content. PREREQ: E 500 or PERM/CHMN.

E 560 FOLKLORE (3-0-3)(S). Materials selected from oral tradition and culture with attention to aspects of collecting, classifying, analyzing, comparing and archiving. Theories of folklore composition, transmission, and function will be related to the occurrence of folklore. PREREQ: E 500 or PERM/CHMN.

E 570 LITERARY MOVEMENTS (3-0-3)(F). A focus on a significant literary movement, the works of its major and minor contributors, its theories and its practice, its relation to its time, its place in literary history, its influence in literature of the past and present. PREREQ: E 500 or PERM/CHMN.

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/CHMN.

E 593 THESIS (V-0-V). A scholarly paper containing the results of original research. PREREQ: Admission to candidacy and approval of the student’s graduate committee.

E 595 READING AND CONFERENCE (V-0-V). A project may include, but is not limited to, a library research paper or experimental research on some aspect of pedagogy or preparation of written curriculum with teaching materials. PREREQ: Admission to candidacy and approval of the student’s graduate committee.

**Master of Arts in Education—History Emphasis**

**Admissions**

**Program Requirements**

The Master of Arts in Education with a History emphasis will consist of a minimum of thirty-three hours planned by the students and their advisory committee from the following alternatives.

1. **33 hours with thesis**
   - Education Core ........................................................................ 6
   - History Emphasis .................................................................. 12
   - Free Electives ....................................................................... 9
   - Thesis (defended orally) HY 593 ............................................. 6

2. **33 hour with project**
   - Education Core ........................................................................ 6
   - History Emphasis .................................................................. 15
   - 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

3. **36 hour**
   - Education Core ........................................................................ 6
   - History Emphasis .................................................................. 18
   - Written examination covering course work taken in the History Department toward the degree

**Course Offerings**

1. **Required courses**
   - HY 500 Historians and Historical Interpretation .................. 3
   - HY 502 Teaching History in the Secondary Schools ............ 3
   - HY 510-11 History of Western Thought OR
   - HY 520 Sources of American Values ................................... 3
   - HY 580, 581, 582 Seminar ...................................................... 3
   - TE 570 Graduate Core ............................................................ 6

2. **Elective courses**

Additional courses from History or allied fields as planned by the students and their graduate committee to meet program requirements.

3. **Additional information**
   a. Some students may be required to remove deficiencies before admission to candidacy. Students with strong undergraduate history may apply to challenge, waive, or replace parts of the emphasis requirements.
   b. Students electing a double emphasis will draw up their program in consultation with their committee.
   c. A maximum of six hours in 400G History courses may be substituted for seminar work in the History offerings.

**Course Offerings**

**HY HISTORY**

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

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 ma-
or historians and schools of historical interpretation from Ancient Greece to the
sixteenth 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 development of science since the 16th century, and the develop-
ment 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 a survey of various
themes or problems within 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 per-
formed by the students with the assistance of the instructor. PREREQ: Admis-
sion 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 Reforma-
tion. Study of intellectual and cultural trends reflected in Western religious
philosophical literature. PREREQ: Admission to the graduate program
of PERM/CHMN.

HY 511 HISTORY OF WESTERN THOUGHT (3-0-3). History of Western thought
of 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 SOURCE 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 as 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 within 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 per-
formed by the students with the assistance of the instructor. PREREQ: Admis-
sion 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 Euro-
pean history. PREREQ: Admission to graduate program or PERM/CHMN.

HY 582 GRADUATE SEMINAR IN THIRD WORLD HISTORY (3-0-3). Critical analysis
of source materials and historical literature on a topic of restricted scope in Third
World history. Primary emphasis will be placed on reading, discussion, writing
and research. Reports and discussion on various aspects of the controlling sub-
ject will be performed by the students with the assistance of the instructor.
PREREQ: Admission to graduate program or PERM/CHMN.

HY 591 PROJECT (3 credits).

HY 592 HISTORY COLLOQUIUM (3 credits).

HY 593 RESEARCH AND THESIS (6 credits).

HY 598 HISTORY SEMINAR (3 credits).

Free Electives ........................................... 9
A written examination over mathematics coursework
c. The 33-hour ‘‘thesis option’’ is the same as the ‘‘project option’’
except that M 591 is replaced with M 593

2. Mathematics Requirements

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

b. Elective courses—Additional courses planned by the students and their
graduate committee to meet program requirements.

3. Additional Information

a. Credit in Workshop (594 or 599) is limited to a total of 3 credits
to be applied to partial fulfillment of the requirements for the emphasis
in Mathematics.

b. Some students may be required to remove deficiencies before
admission to candidacy. Students with strong undergraduate
mathematics may apply to challenge, waive, or replace parts
of the emphasis requirements.

c. Students considering this program should consult with the Chair-
man of the Mathematics Department. Enrollment in graduate
courses has been such that completion dates for this program can-
not be guaranteed.

Course Offerings

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

M 503 THE TEACHING OF ALGEBRA (3-0-3). Contemporary approaches to
teaching secondary school algebra; treatment of selected topics in modern
algebra; methods and materials; research relevant to the teaching of algebra.
PREREQ: M 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, con-
nections, compactness, connectedness, non-dense 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, sub-
groups, morphisms, rings, integral domains, polynomial rings, fields, field ex-
tensions. PREREQ: M 302 or PERM/INST.

M 547 HISTORY OF MATHEMATICS (3-0-3). The course is designed for math-
ematics teachers in the secondary schools. The course consists of two parts: the
first part traces the development of algebra, geometry, analytic geometry and
calculus to the 19th century; the second part gives a brief introduction to, and
history of, some of the developments in mathematics during the last century.
PREREQ: PERM/INST.

M 561 MATHEMATICS FOR OPERATIONS RESEARCH (4-0-4)(F/S).
The mathematics techniques used to solve problems involving several variables. Linear systems,
matrices, linear programming with the simplex method, differential and integral
calculus with emphasis on applications in management decision situations.
PREREQ: PERM/INST.

M 564 MATHEMATICAL MODELING (3-0-3)(S). Introduction to mathematical
modeling through case studies. Deterministic and probabilistic models; optimization.
Examples will be drawn from the physical, biological, and social sciences.
A modeling project will be required. PREREQ: M 361 and M 122 or PERM/INST.

Master of Science in Education—
Mathematics Emphasis

1. The Master of Science in Education with a 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
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

The 33-hour ‘‘thesis option’’ is the same as the ‘‘project option’’
except that M 591 is replaced with M 593

...
M 571 MATHEMATICAL 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. 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 Education emphasis, is designed to meet the needs of the practicing junior high or high school music specialist. While teaching experience is not necessary in order to begin work on this degree, any applicant for the degree must either be currently certified as a secondary school music specialist, or agree to begin the process toward attaining this certification while working on the degree. Before advancement to Candidacy can be granted, the student must ordinarily show eligibility for certification by the State of Idaho (or any other State). Admission will be granted to applicants who hold a Bachelor's degree from an accredited college or university, and who fulfill the prerequisites 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 first semester in attendance. The purpose of these examinations is to determine the student's strengths and weaknesses so that the student and 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 towards remedying any deficiencies. Any undergraduate course used to make up the deficiencies will not count toward the Master's Degree. A student who has any deficiencies will be granted Provisional Status only 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
   - M 503 Introduction to Research Materials in Music Education 3
   - M 570 New Developments in Music Education 3
   - MU 501 History of Music in the United States (3-0-3)

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

Course Offerings

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.

Graduate College

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) Bowd 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 college music.

ME 515 OPERA THEATER (0-5-1). Advanced study/experience in singing-acting technique and movement through performing in productions from the opera and musical theater repertoire. May be repeated for up to 4 credits maximum. PREREQ: PERM/INST.

ME 520 INSTRUMENTAL ENSEMBLE (0-1-3)(F). 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 on techniques of ensemble playing, instrumentation, 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 423g SIXTEENTH CENTURY COUNTERPOINT (3-0-3)(F).
MU 424g COUNTERPOINT SINCE 1600 (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 education research, and a review of literature pertinent to students' major areas of interest will be included.

MU 505 SEMINAR IN CHORAL MUSIC: PERFORMANCE PRACTICES AND STYLES (3-0-3)(F). An historical, generic survey of the repertoire in choral literature. Emphasis will be placed on facets of interpretation through a study of representative compositions from the standpoint of performance practice, analytic techniques, and the reading of primary sources from pertinent information.

MU 506 SEMINAR IN INSTRUMENTAL MUSIC: PERFORMANCE PRACTICES AND STYLES (3-0-3)(F). Analysis and study of works from the Baroque through the present era. Particular attention will be paid to performance practices of ornamentation, style, tempo, scoring, dynamics, etc. Band transcriptions also included.

MU 511 20TH CENTURY MUSICAL STUDIES (3-0-3)(F). A study of 20th century compositional techniques and performance practices through analysis, discussion of aesthetics, listening, performance, and creative writing. Contemporary techniques (and their notation), such as quartal harmonies, serialization, improvisation, electronic music, microtones, and multimedia, will be explored and their application to the secondary school music classroom will be discussed.

MU 561 ADVANCED CONDUCTING (3-0-3)(F). Designed for secondary music teachers, this course provides opportunity to discover and analyze technical conducting problems, both instrumental and choral, in music of the various historical eras, which forms a significant part of the secondary school repertoire.

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

C CHEMISTRY

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, and 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.
School of Vocational Technical Education

Dean: Donald V. Heelas, Ed.D.
AssistantDean: Tom Denison, Ph.D.
Vocational Counselors: Nothern, Quinowski

School of Vocational Technical Education Emeriti:
Buchanan, Callies, Fleshman, Fuehrer, Hager, Krigbaum,
Lamborn, Leigh, Tennyson, Thompson, Trapp, Weston

Objectives of Vocational Education

To provide the opportunity for state and local citizens to acquire the education necessary:
1. To become employed, to succeed, and to progress in a Vocational Technical field.
2. To meet the present and anticipated needs of the local, state and national economy for employees with a Vocational Technical education.
3. To become contributing members of the social, civic, and industrial community.

Admissions Requirements

Students who plan to enter the School of Vocational Technical Education, Boise State University, must complete the following:
1. Boise State University admissions requirements.
2. Boise State University application—(Admissions Office; $10.00 matriculation fee required).
3. Completion of an entrance assessment.
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 your 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 early.

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

High school graduation or a GED is required. All non-high school graduates must be out of high school one complete semester.

Bachelor of Applied Science Degree

The School of Vocational Technical Education, with the support of the College of Arts and Sciences offers a Bachelor of Applied Science degree with a major in the field of Vocational Technical Education.

The program, known as an "upside down" program, provides for the acquisition of the major first. Then the student acquires the core and the electives.

Permission to enter the Bachelor of Applied Science degree program must be obtained from the School of Vocational Education.
School of Vocational Technical Education

Minimum Requirements
Vocational Technical Education Major ................................................. 64

Areas of Emphasis:
1. Business Machine Technology
2. Child Care Studies (Supervisor)
3. Drafting
4. Electronic Service Technology
5. Electronics-Semi-Conductor Technology
6. Electronics Technology
7. Horticulture Service Technician
8. Machine Shop
9. Marketing: Mid-Management

NOTE: University Core courses EC 201, EC 202, CM 111, and P 101 used in fulfilling Marketing: Mid-Management Major cannot be used to satisfy credits for Area II. See the Marketing Department listing in the College of Business for additional specifications.

General University Requirements ................................................. 64

   English Composition ................................................................. 3-6
   Math 105 and Math 106 ............................................................. 8

NOTE: Math 105 and Math 106 are required in recognition that Bachelor of Business degrees require a minimum math competency of M 105 and M 106. These two courses are not to be used for Area III.

Area I (must have three fields) ..................................................... 12

   • Art
   • Foreign Language (201 or higher of one language)
   • Humanities
   • Literature
   • Music
   • Philosophy
   • Theatre Arts

Area II (must have three fields) .................................................. 12

   • Anthropology
   • History
   • Communication
   • Economics
   • Geography
   • Political Science
   • Psychology
   • Social Work
   • Sociology
   • Teacher Education

Area III (must have two fields) .................................................. 12

   • Biology
   • Chemistry
   • Engineering
   • Geology
   • Mathematics
   • Physical Science

• Additional credits from Areas I & III ........................................ 9

NOTE: Must have a C grade in each Core Curriculum course and an overall GPA of 2.0.

Electives to total sixty-four credits .............................................. 64

Associate of Applied Science Degree

Some 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—56 credit hours or equivalent clock hours.
   a. Technical Coursework: 42-46 credit hours or equivalent clock hours. 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 Coursework: 10-14 credit hours or equivalent clock hours.

   Coursework 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 are in economics, industrial relations, or human relations.

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. A cumulative grade point average of at least 2.0 must be maintained to be eligible for the Certificate of Completion.

Curriculum Changes

Curriculum changes may be made at any time with the approval of the Curriculum Committee to meet the needs of business and industry.

Business and Service Division

Manager: Bonnie Sumter Dental Assisting: Imbs, MacInnis; Practical Nursing: Baichtal, Dallas, Heist, McCollough, Towle; Surgical Technology: Curtis; Child Service/Management: Lingenfelter, Gourley; Culinary Arts: Hoff, Walsh; Horticulture: Oyler, Maki; Mid-Management: Lane; Office Occupations: Butler, Carlton, Enyart, Metzgar, Williamson.

Dental Assistant—Nine Month Program

Certificate of Completion

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. 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.

<table>
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<tr>
<th>Course Code</th>
<th>1st SEM</th>
<th>2nd SEM</th>
<th>3rd SEM</th>
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<tbody>
<tr>
<td>Dental Laboratory DA 101-102</td>
<td>4</td>
<td>2</td>
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<tr>
<td>Dental Radiology DA 104</td>
<td>4</td>
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<tr>
<td>Dental Assisting Clinical Experience DA 106</td>
<td>4</td>
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<tr>
<td>Dental Office Management DA 108</td>
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<tr>
<td>Public Health and Dental Hygiene DA 109</td>
<td>2</td>
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<tr>
<td>Communication Skills DA 111-112</td>
<td>3</td>
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<td>Dental Theory DA 151-152</td>
<td>6</td>
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<tr>
<td>Occupational Relationships DA 262</td>
<td>3</td>
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<tr>
<td>Fundamentals of Speech CM 111</td>
<td>3</td>
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<tr>
<td>Standard First Aid and CPR PE 121</td>
<td>24</td>
<td>18</td>
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</table>

Course Offerings

DA DENTAL ASSISTING

DA 101-102 DENTAL LABORATORY (2-10-4)(F), (1-5-2)(S). Provides practical laboratory experience in handling dental materials and instruments.

DA 104 DENTAL RADIOL OGY (3-5-4)(F). Provides dental assisting students the opportunity to become skilled in dental x-ray procedures with a heavy emphasis on safety.
DA 106 DENTAL ASSISTING CLINICAL EXPERIENCE (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 (3-0-3(FS)). Enables the students to use our language effectively as a tool for logical thinking, problem solving, technical writing and speaking required in their major field of preparation.
DA 151-152 DENTAL THEORY (6-0-61F),(6-0-63S). 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.

Practical Nursing—Eleven Month Program

Certificate of Completion
The Practical Nursing Program, in cooperation with three hospitals, a long term care facility 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' part 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 remodelling 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: Entrance 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, which begins in September. All application materials must be in the Health Occupations Education Office by September 15 for the Boise program and by March 15 for the Nampa program.

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 ........................................ 2
- Anatomy and Physiology for Practical Nursing PN 102 ........ 4
- Medical-Surgical Nursing PN 104 .................................... 7
- Nutrition and Diet Therapy PN 103 .................................. 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 ............................................ 2
- Maternal and Infant Clinical PN 112 ................................. 2
- Pediatric Clinical PN 113 ............................................ 2
- Fundamentals of Nursing PN 114 ................................. 5
- Clinical Foundations PN 115 ........................................ 3
- Community Health and Microbiology PN 120 ................... 1
- Medical-Surgical Nursing I PN 121 .................................. 8
- Medical-Surgical Nursing II PN 122 ................................ 7
- Growth and Development PN 123 .................................. 1

School of Vocational Technical Education

Course Offerings
PN PRACTICAL NURSING

- PN 101 PROFESSIONAL CONCEPTS (2-0-2(FS)). Topics of study for Practical Nursing Professional Concepts will include job seeking skills, legal and ethical aspects and historical development of the field.
- PN 102 ANATOMY AND PHYSIOLOGY FOR PRACTICAL NURSING (4-4-4). 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 (6-28-7). 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 (6-4-1). Clinical experience for PN 107. PREREQ: PN 107.
- PN 109 GERIATRIC NURSING (1-6-1). A study of the health needs and problems particular to the elderly patient.
- PN 110 GERIATRIC CLINICAL (0-4-1). Clinical experience for PN 109. PREREQ: PN 109.
- PN 112 MATERNAL AND INFANT CLINICAL (0-8-2). Clinical experience for PN 124. PREREQ: PN 124.
- PN 113 PEDIATRIC CLINICAL (0-8-2). Clinical experience for PN 125. PREREQ: PN 125.
- PN 114 FUNDAMENTALS OF NURSING (3-4-5). The student will develop skills in activities and procedures basic to patient care and includes medical terminology.
- PN 115 CLINICAL FOUNDATIONS (0-12-3). Clinical experience for PN 114. PREREQ: PN 114.
- PN 117 CLINICAL ELECTIVES (0-2-1). The student will obtain clinical experiences in specialty area as arranged by the instructor.
- PN 118 PRACTICAL NURSING SPECIAL THEORY (V-V-1 to 10). Designed to provide the opportunity for study of a specific unit of theory. The topic offered will be selected on the basis of an evaluation of needs of the individual. PREREQ: PERM/DEPT.
- PN 119 PRACTICAL NURSING SPECIAL CLINICAL (V-V-1 to 10). Designed to provide the opportunity for specific clinical experience. The clinical offered will be selected on the basis of an evaluation of needs of the individual. PREREQ: PERM/DEPT.
- PN 120 COMMUNITY HEALTH AND MICROBIOLOGY (4-0-1). A study of the health needs of the individual, the family, the community and microbiology.
- PN 121 MEDICAL AND SURGICAL NURSING I (6-0-8). 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 (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.
Surgical Technology—Nine Month Program

Certificate of Completion

The Surgical Technology Program is a competency based curriculum containing modules developed for individual student progress. Each of the classes contains modules complete with reading assignments, laboratory practice assignments and a written test to let the student know when mastery of the module has been accomplished. All modules must be successfully completed to qualify for a Certificate of Completion.

The student is required to be concurrently enrolled in Human Anatomy and Physiology Z 111, Z 112, and First Aid Core Block I, or have recently completed those classes successfully (C or better.)

Enrollment is limited due to clinical facilities available and applicant must participate in a selection process prior to enrollment.

Classes begin Fall Semester only.

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<thead>
<tr>
<th>Course Offerings</th>
<th>1st</th>
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<tbody>
<tr>
<td>ST 100 Introduction &amp; Basic Sciences</td>
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<tr>
<td>ST 101 Operating Room Techniques</td>
<td>4</td>
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<tr>
<td>ST 102 Sterilization &amp; Disinfection</td>
<td>6</td>
<td>-</td>
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<tr>
<td>ST 110 Care of Surgical Patient</td>
<td>4</td>
<td>-</td>
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<tr>
<td>ST 111 Surgical Procedures</td>
<td>7</td>
<td>-</td>
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<tr>
<td>ST 131 Clinical Practice</td>
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<tr>
<td>ST 132 Advanced Clinical Practice</td>
<td>6</td>
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<tr>
<td>PE 121 Standard First Aid and CPR</td>
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<tr>
<td>Z 111 Anatomy and Physiology</td>
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Course Offerings

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) Introduction to Pharmacology; (7) Introduction to Otolaryngology; (8) Introduction to Treatment of Fractures; (9) Diagnostic Procedures.

ST 101 OPERATING ROOM TECHNIQUES (3-3-4)(F). Includes modules: (1) Safety and Economy in the Operating Room; (2) Duties of the Scrub and Circulating Technician; (3) 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 DISINFECTATION (1-1-4)(F). 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 131 CLINICAL PRACTICE (2-6-3)(F). Includes patient care and beginning experience in the operating rooms, outpatient and central supply.

ST 132 ADVANCED CLINICAL PRACTICE (4-6-6)(S). Includes advanced experience in surgery, scrubbing, and circulating. PREREQ: ST 131.

Child Service/Management

Day Care Assistant—Nine Month Program

Certificate of Completion

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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<tr>
<th>Course Offerings</th>
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<tbody>
<tr>
<td>Introduction to Child Development CC 101</td>
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<tr>
<td>Introduction to Child Development CC 151</td>
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<tr>
<td>Communication Skills CC 111-112</td>
<td>3</td>
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<tr>
<td>Health and Care of the Young Child CC 141</td>
<td>3</td>
<td>-</td>
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<tr>
<td>Curriculum of the Young Child CC 171-172</td>
<td>3</td>
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<tr>
<td>Child Care Laboratory CC 181-182</td>
<td>3</td>
<td>-</td>
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<tr>
<td>Contract Field Exper in Early Child Prg CC 125-126</td>
<td>2</td>
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<tr>
<td>Plan and Eval of Laboratory Exper CC 135-136</td>
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Day Care Teacher/Supervisor

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<tr>
<th>Course Offerings</th>
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<tbody>
<tr>
<td>Advanced Child Care CC 255</td>
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<tr>
<td>Intro to Kindergarten Curriculum CC 256</td>
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<td>-</td>
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<tr>
<td>Infant Care CC 257</td>
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<td>Child Care Center Management CC 231-232</td>
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<td>Family and Community Involvement with Child CC 252</td>
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<td>Occupational Relationships CC 261</td>
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<tr>
<td>Feeding Children CC 241-242</td>
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<td>3</td>
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<tr>
<td>Child Care Center Supervision CC 201-202</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Contract Pract in Early Child Superv CC235-236</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Plan and Eval of Child Care Supvr CC 235-236</td>
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</table>

Course Offerings

CC CHILD CARE STUDIES

CC 101-151 INTRODUCTION TO CHILD DEVELOPMENT (3-0-3). 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). 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). 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). 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). Safety practices, basic nutrition, general health education, identification of, treatment and prevention of common childhood diseases as applied to children in child care centers. Also includes maintenance of teachers health, red cross multimedia first-aid emergency training and a workshop on the safe maintenance of toys and equipment.

CC 171-172 CURRICULUM OF THE YOUNG CHILD (0-4-3). 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 (6-12-3). Observation and participation in the laboratory preschool. Student will serve as aide and assistant teacher, working directly with the children; attend staff meetings, plan and carry out a variety of daily activities and become acquainted with curriculum, classroom arrangement, schedules, child guidance, staff responsibilities.

CC 201-202 CHILD CARE CENTER SUPERVISION (1-12-4). 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 (0-4-3). 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 231-232 CHILD CARE CENTER MANAGEMENT (2-0-2/F) (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). 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). 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—Eleven Month Program
Certificate of Completion

The purpose of the Culinary Arts Program is to prepare each student with the skills and knowledge necessary to enter and advance in the culinary arts professions. Learning experiences are structured to ensure that students are ready to enter the profession as a cook or a related occupation upon graduation. A variety of experiences and instructional strategies are provided to cover the operations of institutional food preparation; franchise operations; family style, motel and hotel specialty houses and catering.

Theory classes and laboratory experiences are combined to provide the student with the basic skills required for: preparation of foods; safe and efficient use of utensils and equipment; quantity food preparation; portion control; menu planning; purchasing, receiving, management of monies, food cost accounting and storeroom management; harmonious relationships with co-workers; and food service management practices.

The Culinary Arts Program is coordinated with the Bureau of Apprenticeship Training and the Idaho Chefs Association to enhance the completers' opportunities to advance in a career ladder within the food service industry.

Course Offerings

| CA CULINARY ARTS
| CA 103-104-105 CULINARY ARTS LAB (0-25-10). Correlates the theory with actual large quantity food service practice in situation similar to those found in the culinary arts industry.
| CA 143-144-145 CULINARY ARTS THEORY (0-10-5). Theory necessary to prepare a student to be a culinary arts worker and develop an understanding of such principles as fundamental operations of basic nutrition, purchasing, storage, handling, safety, sanitation, handling of prepared foods, bus and set tables, wait on tables, dining room etiquette and dishwashing. |

Horticulture—Two Year Program

Landscape Construction and Maintenance
Associate of Applied Science Degree

The objective of the Horticulture Program is to prepare students for employment in the Landscape, Nursery, Floral, Greenhouse, and Fruit and Vegetable industries. This includes the production, sales and service areas of these major fields. The program stresses the design of landscapes, their interpretation and construction including costs, production of nursery plants, plant propagation, and landscape planting. Graduates of the Horticulture program qualify for positions in Nursery and Floral establishments as well as in Parks, Grounds, Maintenance, and Highway departments. They may also enter the fields associated with plant propagation, nursery sales, greenhouse work and sales in the related fertilizer and insecticide fields.

Course Offerings

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>1st</th>
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<tbody>
<tr>
<td>Horticulture Laboratory HO 101-102</td>
<td>4</td>
<td>4</td>
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<tr>
<td>Communication Skills HO 111-112</td>
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<td>3</td>
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<tr>
<td>Related Basic Mathematics HO 131-132</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Related Basic Science HO 141-142</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Horticulture Theory HO 151-152</td>
<td>7</td>
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<tr>
<td>SOPHOMORE YEAR</td>
<td>1st</td>
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<tr>
<td>Horticulture Laboratory HO 201-202</td>
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<tr>
<td>Related Science HO 241-242</td>
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<tr>
<td>Horticulture Theory HO 251-252</td>
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<td>Occupational Relationships HO 262</td>
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<td>Individual Project HO 271</td>
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<tr>
<td>Consumer Marketing MM 201</td>
<td>3</td>
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<tr>
<td>Salesmanship MM 101</td>
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Course Offerings

| 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 occupational opportunities. Identification of plants by the use of descriptive terms; identification of annual and perennial flowering plants; use of scientific names; classification and botanical structures of plants, climatic and other factors limiting growth; plant propagation, greenhouse, flower, and plant production. |
| 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; arrangements, implementation of entire greenhouse operation and bedding plant production; the use of insecticides; pesticides, etc., and precautions necessary during use. |
| HO 111, 112 COMMUNICATION SKILLS (3-0-3/S). Objective; to enable students to use language effectively as a tool for logical thinking, problem solving, technical writing and speaking required in their major field of training. |
| HO 131-132 RELATED BASIC MATHEMATICS (3-0-3). First semester—developing comprehension of the basic principles of mathematics. Specific areas include addition, subtraction, multiplication, division, fractions, denominate numbers, square root, mensuration. Second semester—developing comprehension of the principles of related bookkeeping and accounting. Specific areas to be covered include: income and expense accounts, general journal and ledger, sales and purchases, inventories, payroll, etc. |
| HO 141-142 RELATED BASIC SCIENCE (2-0-2). First semester—developing comprehension of the scientific principles utilized in plant identification, plant growth and development, limiting factors, development which aid plant propagation. Second semester—developing comprehension of the scientific principles utilized in developments which aid plant propagation, construction materials, insecticides, pesticides, soils and fertility. |
| HO 151-152 HORTICULTURE THEORY (7-0-7). First semester—developing comprehension, analysis and evaluation of: introduction to the field of horticulture, plant classification and growth, climate and other growth limiting factors, soil and soil amendments. Second semester—developing comprehension, analysis and evaluation of: plant propagation; growing containers; insect and disease control; and pesticide application. |
The Office Occupations Program is designed to meet the needs of students as they prepare to enter the business world, in both private industry and government. Prior to entering the program, the students select an emphasis and work on a specific curriculum for that option. Suggested curricula for the options are as follows:

Marketing: Mid-Management, Two Year Program

Associate of Applied Science Degree

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>1st SEM</th>
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<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
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<tr>
<td>Introduction to Business GB 202</td>
<td>3</td>
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<td>Math or Information-Decision Science Elective</td>
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<tr>
<td>Salesmanship MM 101</td>
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<tr>
<td>Introduction to Financial Accounting AC 205</td>
<td>3</td>
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<tr>
<td>Principles of Economics-Macro EC 201</td>
<td>3</td>
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<tr>
<td>Mid-Management Practicum MM 100</td>
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<td>2</td>
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<tr>
<td>Elements of Management MM 103</td>
<td>3</td>
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<tr>
<td>Fundamentals of Speech Communication CM 111</td>
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<thead>
<tr>
<th>SOPHOMORE YEAR</th>
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<th>2nd SEM</th>
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<tbody>
<tr>
<td>Consumer Marketing MM 201</td>
<td>3</td>
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<tr>
<td>Principles of Economics-Micro EC 202</td>
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<td>Principles of Advertising MM 203</td>
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<td>Report Writing MM 209</td>
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<tr>
<td>Supervision of Personnel MM 204</td>
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<tr>
<td>Retail Merchandising MM 204</td>
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<td>General Psychology P 101</td>
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<td>Mid-Management Practicum MM 100</td>
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NOTE: The Marketing Mid-Management program is also listed in this Catalog in the College of Business section. NOTE: MM Courses are listed under the Department of Marketing in the College of Business portion of this Catalog.

Office Occupations—Nine Month Program

Certificate of Completion

The Office Occupations Program is designed to meet the needs of students as they prepare to enter the business world, in both private industry and government. Prior to entering the program, the students select an emphasis and work on a specific curriculum for that option. Suggested curricula for the options are as follows:

1. **Secretary—2 Semesters**
   - Business Math-Machines OF 118 .................................................. 4
   - Business Communications OF 110 .............................................. 5
   - Business Writing OF 120 .......................................................... 5
   - Typing I, II or III OF 102, 103, or 104 ................................... 4
   - Word Processing OF 114 ......................................................... 3
   - Record Keeping OF 116 ............................................................ 3
   - Filing OF 112 ........................................................................... 1
   - Shorthand I, II, or III OF 121, 122, 123 ................................ 4
   - Shorthand Lab I or II OF 115, 117 .......................................... 1
   - **Total: 21**

2. **Clerk-Typist—2 Semesters**
   - Business Math-Machines OF 118 ................................................ 4
   - Business Communications OF 110 .............................................. 5
   - Business Writing OF 120 .......................................................... 5
   - Typing I, II, or III OF 102, 103 or 104 ................................... 4
   - Word Processing OF 114 ......................................................... 3
   - Record Keeping OF 116 ............................................................ 3
   - Filing OF 112 ........................................................................... 1
   - **Total: 15**

3. **Clerk-General Office—2 Semesters**
   - Business Math-Machines OF 118 ................................................ 4
   - Business Communications OF 110 .............................................. 5
   - Business Writing OF 120 .......................................................... 5
   - Typing I, II, or III OF 102, 103 or 104 ................................... 4
   - Filing OF 112 ........................................................................... 1
   - Bookkeeping I OF 100 .............................................................. 5
   - Bookkeeping II OF 101 ............................................................ 5
   - **Total: 15**

**Course Offerings**

**OF OFFICE OCCUPATIONS**

**OF 100 BOOKKEEPING I (3-4-5)(S):** Covers the entire bookkeeping cycle for sole proprietorship bookkeeping. Includes journalizing, posting, financial statements, payroll, and closing procedures.

**OF 101 BOOKKEEPING II (3-4-5)(S):** Covers the entire bookkeeping cycle for a corporation. Includes the use of special journals, cash register system, sales, taxes, uncollectible accounts, depreciation, disposal of plant assets, notes, accruals, partnerships, and corporations.

**OF 102 TYPING I (2-8-4)(F):** Theory and keyboard operations on the typewriter with application for personal or business use. Developing/measuring basic skills.

**OF 103 TYPING II (2-8-4)(F):** Review of typing fundamentals for developing speed and accuracy with applications of these skills for business use. Measuring basic/production skills.

**OF 104 TYPING III (2-3-4)(F):** Continued study of typewriting procedures to develop speed and accuracy in office applications. Measuring basic/production skills.

**OF 110 BUSINESS COMMUNICATIONS (5-6-5)(F):** Emphasis on developing grammar skills such as parts of speech, punctuation, capitalization, spelling, and vocabulary skills.

**OF 112 FILING (1-4-1)(F/S):** Designed to provide fundamental training in records management so students will be able to meet entry-level records management needs of business. At conclusion of the course, students will have learned to handle all types of correspondence and forms most frequently found in modern offices. They also will have had experience with the four filing methods: alphabetic, numeric, subject, and geographic.

**OF 114 WORD PROCESSING (2-3-3)(S):** The development of speed and accuracy in machine transcription by using programmed tapes and simulated office work experience. Student will learn to transcribe from machine letters, transcripts, memos, reports and statistical tables. Also included is the development of skills using memory typewriter and other up-to-date word processing equipment. Emphasis is placed on creation, storage, and retrieval of typed material.

**OF 115 SHORTHAND I LAB (0-2-1)(F):** Open lab to be used in conjunction with OF 121.

**OF 116 RECORD KEEPING (2-3-4)(S):** Fundamental operations of Books 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 recordkeeping is involved.

**OF 117 SHORTHAND II LAB (0-2-1)(F):** Open lab to be used in conjunction with OF 122.

162
OF 118 BUSINESS MATH/MACHINES (3-2-4)(F). Fundamental operations of arithmetic in business usage. Decimals, fractions, percentages, interest discounts, markup, installment buying, depreciation. Student will learn the touch system using the electronic printing calculator.

OF 120 BUSINESS WRITING (5-0-5)(S). Designed to emphasize the building of a foundation in effective business writing principles. Preparation of a variety of business letters is required.

OF 121 SHORTHAND I (5-0-4)(F). A beginning course in Gregg Shorthand. Emphasis is placed on theory, writing skill, vocabulary development. PREREQ: Demonstrated proficiency in typewriting or current enrollment in typewriting.

OF 122 SHORTHAND II (5-0-4)(S). Review of shorthand theory with emphasis on dictation and transcription to improve speed and accuracy. PREREQ: OF 121 or advanced placement through proficiency exam.

OF 123 SHORTHAND III (5-0-4)(F). Emphasis on the building of a broad shorthand vocabulary and the development of high speed in dictation with rapid transcription. PREREQ: OF 122 or advanced placement through proficiency exam.

Mechanical Division
Manager: Charles Tillman; Agricultural Equipment Technology: Gaines; Auto Body: Parke; Auto Mechanics: Mikesell, Hall; Heavy Duty Mechanics: Tillman, Brownfield, Hogue; Small Engine Repair: Schroeder; Wastewater Technology: Place.

Agricultural Equipment Technology—Nine Month Program
Certificate of Completion
The Agricultural Equipment Technology Program is designed to prepare students for employment in the repair of equipment used in the production and harvesting of agricultural products. Procedures from field troubleshooting to shop overhaul on various types of equipment will be covered. Theory and principles of operation will be stressed including a strong emphasis on safety procedures.

SUBJECTS
Agricultural Equipment Lab AE 101-102 .......................... 6 6
Agricultural Equipment Theory AE 151-152 ................. 10 10
Occupational Relationships AE 262 .......................... 2 2
16 18

Course Offerings
AE AGRICULTURAL EQUIPMENT TECHNOLOGY
AE 101-102 AGRICULTURAL EQUIPMENT LAB (8-25-6). This course provides the application of principles covered in the theory class. Shop experience will be gained by making actual repairs to tractors and other planting, cultivating and harvesting equipment. Basic welding will also be covered.
AE 151-152 AGRICULTURAL EQUIPMENT THEORY (10-0-10). A study of the internal combustion engine, gasoline and diesel fuel systems, mechanical and hydraulic theory and the application of these principles to the various machines used in farming operations.

Auto Body—Eleven Month Program
Certificate of Completion
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, braise, 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.

School of Vocational Technical Education

Course Offerings
AB AUTO BODY
AB 121-122-123 AUTO BODY LABORATORY (0-25-10)(S) (SU). The purpose of these courses is to develop the skills needed by an auto body repairman. Subjects covered include: orientation, safety rules, shop house-keeping, 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), (8-0-5)(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 and related to the trade are provided.
AB 262 OCCUPATIONAL RELATIONSHIPS (2-0-2). 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.

Auto Mechanics—Eleven Month Program
Certificate of Completion
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
AM Tune-up and Drive Train AM 105 .......................... 15 -
AM Engine and Brakes AM 106 .......................... - 15
AM Front End & Air Cond AM 107 .......................... - 15
Occupational Relations AM 262 .......................... 2 17 15

Course Offerings
AM AUTO MECHANICS
AM 105 AUTO MECHANICS TUNE-UP AND DRIVE TRAIN (10-20-15)(F). This course covers basic electricity, carburetion, ignition systems, generator testing, alternator rebuilding and testing, emission testing, starter rebuilding, automatic and standard transmissions, rear axles, and universal joint replacement.
AM 106 AUTO MECHANICS ENGINE AND BRAKES (10-20-15)(S). This course covers disassembly of engines, measurement of wear, and rebuilding procedures. Braking systems are studied with emphasis on shoe replacement, drum and rotor machining, and rebuilding of wheel and master cylinders.
AM 107 AUTO MECHANICS FRONT END AND AIR CONDITIONING (10-20-15)(S). Front ends are checked for wear and rebuilt as necessary. Alignment of wheels is checked and corrected as required. In the Air Conditioning section, students are taught diagnosis of air conditioning problems, replacement of components, and evacuation and recharging with suitable refrigerant.
AM 262 OCCUPATIONAL RELATIONS (2-0-2)(F). Course 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.

Heavy Duty Mechanics—Diesel—Eleven Month Program
Certificate of Completion
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.
Course Offerings
DM HEAVY DUTY MECHANICS—DIESEL

DM 101 DIESEL MECHANICS—BASIC (14-20-19)(F). This course covers shop safety practices, use and care of tools, use of measuring devices, service manuals, basic principles of diesel and heavy duty gasoline engines, transmissions, power trains, cooling systems, diesel and gasoline engine fuel systems, electrical systems, suspension, hydraulic and air brakes, clutches, steering, and basic welding. Students must satisfactorily complete all theory and laboratory assignments and pass a final examination to progress to intermediate heavy-duty mechanics.

DM 104 DIESEL MECHANICS INTERMEDIATE I (10-28-17)(S). The study and laboratory application of the design, construction, maintenance, and repair of diesel and heavy duty gasoline engines. Shop safety, care and use of special tools, welding, transmissions and power trains, cooling systems, fuel systems, clutches, steering electrical systems, suspension, hydraulic and air brakes will be studied. The theory will be applied in the lab. PREREQ: DM 101.

DM 105 DIESEL MECHANICS INTERMEDIATE II (0-28-15)(SU). Continuation of the study and application of DM 104. PREREQ: DM 104.

DM 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.

Small Engine Repair—Nine Month Program
(Recreational Vehicles)
Certificate of Completion

The Small Engine Repair Program will include classroom, math, and shop experiences directed to maintaining and repairing of a variety of two and four cycle engines used on portable power equipment, e.g., lawnmowers, outboard motors, chain saws, rotary tillers and recreational vehicles. The instructional units will emphasize the complete repair of all types of small engine equipment.

Course Offerings
SE SMALL ENGINE REPAIR

SE 101 SMALL ENGINE LABORATORY (8-32-8). Includes application and instruction in repair and overhaul of small engine units with emphasis on lawn and garden equipment.

SE 102 SMALL ENGINE LABORATORY (0-32-8). Repair and maintenance of recreational vehicles, motorcycles, snowmobiles and outboard marine engines.

SE 141 SMALL ENGINE THEORY (6-0-6). 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). Includes instruction in power train, clutching, trouble shooting, fuel systems, tune-up, marine engines and chain saws.

SE 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.

Air Conditioning, Refrigeration, and Heating—Eleven Month Program
Certificate of Completion

The Air Conditioning, Refrigeration, and Heating Program offers laboratory experience, theory classes and related subjects, designed to prepare students for entry level employment. Emphasis will be on the servicing of commercial equipment and will cover all phases of skills and knowledge necessary to repair the equipment with a strong emphasis on safety.

Course Offerings
RH AIR CONDITIONING, REFRIGERATION AND HEATING

RH 121-122-123 AIR CONDITIONING, REFRIGERATION AND HEATING LABORATORY (0-20-5)(0-20-5)(0-26-3). 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 141-142-143 AIR CONDITIONING, REFRIGERATION AND HEATING THEORY (10-0-10)(10-0-10)(10-0-4). This sequence of courses provides a basic understanding of the equipment and tools used on commercial equipment. Emphasis is on causes of break downs and the making of necessary repairs. Test equipment is used in the inspection of components such as relays, thermostats, motors and refrigerant lines.

RH 262 OCCUPATIONAL RELATIONS (2-0-2). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, securing, maintaining and advancing in employment.

Electrical Lineworker—Eleven Month Program
Certificate of Completion

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, the students will experience permitting further and more concentrated advancement in these skilled areas.

The program is designed to produce a highly skilled, well-informed entry level lineworker who is familiar with use of all tools, materials, and equipment of the trade. The areas of first aid, personal safety, and occupational safety are stressed as integral parts of each area of the craft.

Course Offerings
EL ELECTRICAL LINELINERWORKER

EL 101-102-103 ELECTRICAL LINEMANLABORATORY (0-25-10). The field operation provides actual "job type" experience for the student. Course content includes advanced climbing techniques, ropes and rigging, pole setting and removal, framing of various structures for transmission and distribution, guys and anchors, conductor and insulator installation of transformers and transformer banks, services, street lights, underground distribution design, construction and maintenance, troubleshooting both overhead and underground, use and care of personal protective equipment, hot stick use and care, operation and maintenance of vehicles and all related construction equipment.

EL 151-152-153 ELECTRICAL LINEMAN THEORY (0-10-5). The theory portion of the program provides the student with an ample background in the basics
of electrical theory, power generation, transmission, distribution, materials identification and application, overcurrent and protective devices, construction techniques, design and specification, basic climbing skills and care of personal tools, transformer theory, design and construction, operation and maintenance of vehicles and equipment, first aid, and personal and occupational safety.

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

**Wastewater Technology—Eleven Month Program**

Certificate of Completion

The Wastewater Technology Program is designed to prepare a student for employment as a new entry wastewater treatment plant operator. The program covers all phases of treatment plant operations, related math and sciences, maintenance, public relations, communications and report writing. Hands-on-experience is provided when the student works at an area wastewater facility.

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<tr>
<th>SUBJECTS</th>
<th>1ST SEM</th>
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<tbody>
<tr>
<td>WW 103 WASTEWATER BIO-CHEM LAB II (3-8-5)</td>
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<td>WW 104 WASTEWATER BIO-CHEM LAB II (3-8-5)</td>
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<td>WW 105 WASTEWATER BIO-CHEM LAB II (3-8-5)</td>
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<td>WW 106 IN PLANT PRACTICUM (8-0-8)</td>
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<td>WW 107 IN PLANT PRACTICUM (8-0-8)</td>
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<tr>
<td>WW 151 WASTEWATER TREATMENT PLANT OPERATIONS (3-0-3)</td>
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**Course Offerings**

**WW WASTEWATER TECHNOLOGY**

**WW 103 WASTEWATER BIO-CHEM LAB I (3-8-5).** Introduction to standard laboratory equipment, safety procedures, and practices. Some basic wastewater testing will be performed.

**WW 104 WASTEWATER MECHANICAL LAB I (3-8-5).** Introduction to, and use of hand tools, power tools, bench mounted tools, presses, etc. Nomenclature of the various types of pumps, blowers, air compressors, clarifiers, and other machinery used in wastewater treatment. Field trips to the various types of wastewater treatment facilities will be made at the beginning. As individual treatment units are discussed, field trips will be made to inspect that unit only.

**WW 105 IN PLANT PRACTICUM (8-0-8).** Supervised experience in area wastewater facilities. Students gain experience in all phases of wastewater treatment in a variety of facilities and with several processes.

**WW 106 WASTEWATER MECHANICAL LAB II (3-8-5).** Hands-on assembly and disassembly of the various pieces of machinery used in wastewater treatment. Installation of packing and mechanical seals in pumps and valves. Basic oxy-acetylene and arc welding. Reading blueprints and schematics. Learning basic skills of piping, field trips to surrounding industrial wastewater treatment facilities will be made.

**WW 107 WASTEWATER BIO-CHEM LAB II (3-8-5).** Continuation of laboratory procedures. Standardization of chemicals and testing apparatus. Maintenance of lab equipment. Chemistry mathematics dealing with the normalizing of solutions, balancing reaction equations, etc. Testing procedures required for N.P.D.E.S. permit reporting will be performed. Procedure and logic for research testing will be introduced.

**WW 131 WASTEWATER MATHEMATICS I (3-8-3).** A review of basic arithmetic: addition, subtraction, multiplication of whole numbers, fractions, and decimals. The use of percentages, ratios, and proportions, and average numbers. Calculation of length, area and volume of various types of containers. Calculation of low rates, velocity, force, pressure and hydraulic heads. Calculations relating to those treatment processes covered in WW 151.

**WW 132 WASTEWATER MATHEMATICS II (3-0-3).** Intermediate mathematics covering algebra, chemistry calculations, geometric means, logarithms, electrical circuitry, horsepower calculations, etc.

**Electronics Technology—Two Year Program**

Associate of Applied Science Degree

The Electronics Technology Program prepares students desiring to enter the field of Electronics, working as team members with engineers in manufacturing, field troubleshooting, and research and development.

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<th>1ST SEM</th>
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<tr>
<td>Electronics Laboratory ET 101-102</td>
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<td>Communication Skills ET 111-112</td>
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<tr>
<td>Technical Report Writing ET 121</td>
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<tr>
<td>Electronics Math I ET 131-132</td>
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<td>Basic Physical Science ET 142</td>
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<tr>
<td>Electronics Theory ET 151-152</td>
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<tr>
<td>Intro to Digital Electronics ET 161</td>
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<tr>
<td>Digital Systems I ET 162</td>
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<td>Digital Systems Lab I ET 163</td>
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<td>Solid State Devices I ET 172</td>
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<tr>
<td>Solid State Devices Lab I ET 173</td>
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**SEMESTER YEAR**

**FRESHMAN YEAR**

**Sophomore Year**

**Elective chosen from following course offerings to fulfill Occupational Area core requirements.**

**School of Vocational Technical Education**

**Electronic 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.
ET 101 ELECTRONICS LABORATORY I (4-1-4)(F/S). Experiments in direct current electronics. Study of resistance, dc circuit behavior, dc applications of capacitors and inductors, dc operation of transistor circuits, and characteristics of dc test equipment.


ET 111, 112 COMMUNICATION SKILLS (3-0-3)(F/S). Study of terms, attributes, and the mechanics of language for logical thinking, speaking, and writing. Training in logic by 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 (3-0-3)(F/S). Composition of standardized technical reports, proper usage of electrical schematic drawings and proper use of headings and punctuation.

ET 131 ELECTRONICS MATHEMATICS I (3-2-3)(F/S). The number system, algebra and algebraic equations, functions and the graphing of functions, exponential and logarithmic equations, and plane geometry and trigonometry.


ET 142 BASIC PHYSICAL SCIENCE (3-0-3)(F/S). Course covers concepts of force, displacement, power and energy and mechanical physical principles including mass, inertia, momentum, velocity and acceleration, and moment of inertia. Emphasis is placed on problem solving. PREREQ: One year high school algebra with satisfactory grade or equivalent.

ET 151 ELECTRONIC THEORY I (4-1-4)(F/S). Theory of direct current electricity, its behavior in dc circuits, resistance and physical properties contributing to resistance, errors in calculation, dc power, dc current and voltage laws, dc circuit analysis, and physical properties of circuit components.

ET 152 ELECTRONIC THEORY II (4-1-4)(F/S). Theory of alternating current electricity, its behavior in electric circuits, properties of reactance and impedance, ac circuit analysis, tuned circuits and resonance, mutual inductance and transformers. PREREQ: ET 151.

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


ET 163 DIGITAL SYSTEMS LAB I (0-4-1)(F/S). Laboratory exercises to complement ET 162. See ET 162 course description. PREREQ: ET 161.


ET 181 INTRODUCTION TO INTEGRATED CIRCUIT INDUSTRY (2-0-2)(F). Overview of the integrated circuit: its history, applications, and manufacturing. Course will cover technical aspects lightly and will focus on economic and social impact. PREREQ: ET 131-132, or M 111 or equivalent.

ET 182 INTRODUCTION TO INTEGRATED CIRCUIT PROCESSING (2-0-2)(F). Examination of the manufacturing techniques and processes necessary to build an integrated circuit from raw materials to final products. The emphasis is on conceptual aspects of processing; however, mechanisms and modeling will be discussed. PREREQ: ET 131-132 or M 111 or the equivalent.

ET 183 INTEGRATED CIRCUIT PROCESSING I (2-0-2)(F). 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). Laboratory exercises to complement ET 251. Linear amplification and signal processing circuits including integrators, differentiators, active filters, oscillators, comparators, differential amplifiers, and specialized non-linear amplifiers. PREREQ: ET 152, ET 172.

ET 202 TELECOMMUNICATIONS LAB (0-5-1)(F). Laboratory exercise to complement ET 252. Communication experiments in radio frequency generation and measurement, amplitude and frequency modulation, frequency shift keying, pulse width and position modulation, radio frequency reception circuits, demodulation and detection, heterodyne systems, and automatic frequency control. PREREQ: ET 251.


ET 251 LINEAR SYSTEMS I (3-2-3)(F). Linear circuit processing. Operational amplifier circuits, comparators, oscillators, logarithmic amplification, active signal filtering, operational amplifier power supply considerations. PREREQ: ET 152.


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


ET 265 DIGITAL SYSTEMS LAB II (0-4-1)(F). Laboratory exercises to complement ET 264. See ET 264 course description. PREREQ: ET 162.

ET 273 SOLID STATE DEVICES II (2-0-2)(F). 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 (0-4-1)(F). Laboratory exercises to complement ET 273. Study of characteristics of SCR devices, photodiodes and phototransistors, light emitting diodes, laser diodes, LASCOR devices, power field effect transistors, solid state temperature sensors and strain gauges. PREREQ: ET 172.

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


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

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

ET 291 INTRODUCTION TO SOLID STATE PHYSICS (3-0-3/S). A study of the interaction of wave phenomena (electromagnetic radiation, lattice vibration, and electrons) with the lattice in a solid. Attention is focused on an understanding of the electrical and thermal properties of solids, metals and semiconductors, in particular. Other selected topics from solid state and low temperature physics. PREREQ: PH 102 or PH 220-224.

ET 292 SOLID STATE DEVICE PHYSICS (3-0-3/S). Introduction to the theory underlying the operation of semiconductor devices. The emphasis is placed on qualitative understanding and simple quantitative models. PREREQ: PH 291, ET 231 or M 204, C 131.

Electronics Service Technology—Two Year Program

Associate of Applied Science Degree

This program is designed to prepare the student for entrance level employment in industry as an electronics technician. Instruction is designed to develop knowledge, understanding, and skills essential to be in a position to receive on-the-job training by a future employer to become a highly specialized electronics technician. It is, by design, a balance of analog and digital training with emphasis on diagnosing and correcting system failures.

FRESHMAN YEAR

Electronics Service Technology and Electronics Technology have a common first year. Please see Electronics Technology for course descriptions for the Freshman year.

SOPHOMORE YEAR

Adv. Electronics Laboratory ES 201-202 ................. 4 4
Intro to Computer Programming ES 204 ...................... 2 3
Advanced Electronics Technology ES 233-236 ............ 4 4
Individual Study ES 275 ...................................... 4 2
Electives (Economics & Industrial & Human Relations) .................................................. 3 3

Course Offerings

ES—ELECTRONICS SERVICE TECHNOLOGY

ES 201-202 ADVANCED ELECTRONICS LAB (0-16-4). Experiments and troubleshooting exercises of advanced electronic circuits and systems covered in ES 255-256 (analog) and ES 271-272 (digital).

ES 204 INTRODUCTION TO COMPUTER PROGRAMMING (2-0-2). Introduces FORTRAN and BASIC programming principles and logic including input-output, flow charting, handling arrays and subprograms, as applied to problem solving and required by the service industry.

ES 255 ADVANCED ELECTRONICS TECHNOLOGY I (4-1-4). Study of video circuits and systems, signal processing, alignment, and troubleshooting. PREREQ: ES 152.

ES 256 ADVANCED ELECTRONICS TECHNOLOGY II (4-1-4). Study of RF communications systems, including RF generation, amplification, modulation and multiplexing, radiation, and reception. PREREQ: ES 256.

ES 262 OCCUPATIONAL RELATIONS (3-0-3). Course is designed to enable a student to become skilled in dealing effectively with people and applying for, gaining, retaining and advancing in employment. Elective.

School of Vocational Technical Education

ES 263 SHOP MANAGEMENT (3-4-3). Study of shop management including methods of pricing, bookkeeping, and warranty reimbursement. Elective.

ES 271 ADVANCED DIGITAL ELECTRONICS I (4-1-4). Study of advanced digital circuits and systems including memory devices, basic computer architecture and interface of unit programming. PREREQ: ES 162.

ES 272 ADVANCED DIGITAL ELECTRONICS II (4-1-4). Continuation of ES 271 leading into microprocessor interfacing and control of electro-mechanical systems with emphasis on troubleshooting. PREREQ: ES 271.

ES 296 INDIVIDUAL STUDY (2-2-2). Individualized program of study agreed upon by the student and a faculty member to aid in advancing in a specialty area; this could include but is not limited to FCC license or LIC certificate preparation.

Drafting Technology—Two Year Program

Associate of Applied Science Degree

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 draftsmen.

First Semester

Drafing Lab and Lecture DT 101 ................................ 4
Communication Skills DT 111 .................................. 3
Mathematics DT 131 ............................................. 3
Applied Physics DT 141 ........................................... 3
Manufacturing Processes DT 153 ............................. 2

Second Semester

Drafing Lab and Lecture DT 102 ................................ 4
Communication Skills DT 112 .................................. 3
Introduction to Surveying DT 122 .............................. 3
Mathematics DT 132 ............................................. 3
Applied Physics DT 142 ........................................... 3
Construction Codes DT 172 ..................................... 2

Third Semester

Drafing Lab and Lecture DT 201 ................................ 4
Descriptive Geometry DT 221 ................................. 3
Applied Mathematics DT 231 .................................. 3
Statics DT 241 .................................................... 3
Graphics DT 261 .................................................. 1
Occupational Relationships DT 262 ........................... 2

Fourth Semester

Drafing Lab and Lecture DT 202 ................................ 4
Technical Report Writing DT 222 ............................. 3
Applied Mathematics DT 232 .................................. 3
Specialized Graphics DT 263 .................................. 2
Strength of Materials DT 242 .................................. 4

Course Offerings

DT DRAFTING TECHNOLOGY

DT 101 DRAFTING LABORATORY AND LECTURE (0-14-4). 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 (0-14-4). Architectural drafting with tension compression and bending; introduction to limited structural design. PREREQ: DT 101.

DT 111, 112 COMMUNICATION SKILLS (3-0-3/7/F). 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.

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

DT 131 MATHEMATICS (4-1-4). Fundamentals of algebra with an introduction to Basic algebra and arithmetic operations with fractions, decimals, percentage, powers, operations with signed numbers, solutions of simple equations, factor-
Industrial Mechanics/Automation—Nine Month Program

Certificate of Completion

The Industrial Mechanics/Automation Program is designed to prepare technicians with entry level skills relevant to increasingly complex automated industrial environments.

Emphasis is on design, operation, maintenance, diagnosis and troubleshooting of modern systems as found in the workplace today. Preventive maintenance techniques and job safety are stressed.

**SUBJECTS**

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<tr>
<th>Subject</th>
<th>1st SEM</th>
<th>2nd SEM</th>
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<tbody>
<tr>
<td>Maintenance Welding Technology IM 101</td>
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<tr>
<td>Maintenance Machine Fundamentals IM 102</td>
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<tr>
<td>Electro-Mechanical Systems IM 110-111</td>
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<tr>
<td>Basic Fluid Power Operations IM 121-122</td>
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<td>Industrial Mechanical Laboratory IM 131-132</td>
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<tr>
<td>Industrial Technology Communications IM 162</td>
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<tr>
<td>Occupational Relationships IM 262</td>
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**Course Offerings**

**IM INDUSTRIAL MECHANICS**

**IM 101 MAINTENANCE WELDING TECHNOLOGY (3-0-3)(F)**. Coverage includes oxyacetylene equipment, basic arc welding, and gas metal arc welding for maintenance. Use of special electrodes on ferrous and non-ferrous base metals is emphasized. Blueprint reading, shop math, equipment maintenance, and layout skills for modern manufacturing are included.

**IM 102 MAINTENANCE MACHINE FUNDAMENTALS (3-0-3)(S)**. This course combines use of basic hand tools with selected machine tools (lathe, milling machine, drill press, shaper, pipe/bolt making 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)(F-S)**. This course covers basic electricity, electrical motor technology, controls, test meter usage, transmission of power via various drives, troubleshooting, and maintenance of these systems.

**IM 121-122 BASIC FLUID POWER OPERATIONS (3-0-3)(F-S)**. Hydraulics and Pneumatics: Complex automated manufacturing equipment requires a technician to be proficient in maintaining, repairing, and troubleshooting fluid power devices. This course provides basic exposure to fluid power systems of pumps, motors, valves, servo-valves, actuators, filtration, fluids, hydostats, and accessories.

**IM 131-132 INDUSTRIAL MECHANICAL LABORATORY (0-20-5)(F-S)**. Laboratory experiences key to Performance Based Objectives correlated with lecture topics are the basis for this course. Practical application of theory, maintenance, and safety are stressed.

**IM 162 INDUSTRIAL TECHNOLOGY COMMUNICATIONS (2-0-2)(F)**. Computer/numerical Control Literacy for the Industrial Technician. Problem solving with the Hewlett-Packard HP41 CV/11 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 and for applying, getting, maintaining and advancing in employment. One semester course.
Machine Shop—Two Year Program
Associate of Applied Science Degree
Boise State University offers a specialized Machine Shop program for students desiring to become machine tool operators. Students receive instruction in the set-up and use of all basic machines including engine lathes, milling machines, grinders, surface grinders, computer numerical control machines and bench work connected with them. Students will also learn about the many different materials and processes used by industry. They will receive classroom instruction and practical experience in the use of various precision measurement and test equipment being used by metals manufacturing industries.

Students who choose not to take CM-111 and two approved electives will receive a machine shop diploma.

FRESHMAN YEAR
Fall       Spring
Machine Shop Laboratory MS 101-102  6  6
Communication Skills MS 111  3  -
Blueprint Reading MS 124-125  2  4
Basic Math MS 132  2  -
Machine Shop Theory MS 151-152  3  3
Occupational Relationships MS 262  2  -
Fundamentals of Speech Commun CM 111  3  -

Sophomore Year
Fall       Spring       Summer
Advanced Machine Shop Lab MS 201-202  6  6  -
Blueprint Reading & Layout MS 221-222  2  2  -
Advanced Math MS 231-232  6  6  -
Advanced Machine Shop Theory MS 251-252  2  2  -
Elective (on approval)  -  3  3

Course Offerings
MS MACHINE SHOP
MS 101-102 MACHINE SHOP LABORATORY (2-18-6). 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 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 (2-2-4/4-0-4). 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). 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 (3-9-3). 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 and other machine tools.
MS 201-202 ADVANCED MACHINE SHOP LABORATORY (2-18-6). The set-up and operation involving manipulative development and increased skill in the use of lathes, milling machines, drill presses, power saws, band saws, grinders, surface grinders, heat treating, hardness testing, layout, inspection, and computer numerical control mill set-up, operation and programming. PREREQ: MS 102.
MS 221-222 BLUEPRINT READING AND LAYOUT FOR THE MACHINIST (2-0-2). Three dimensional drawing and hand sketching of mechanical devices and metric measurements will be covered. PREREQ: MS 125.
MS 231-232 ADVANCED MATH (6-0-6). 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). The composition of grinding wheels, metallurgy and heat treatment of metals. The programming of numerical controlled machines, as applied to the machinist. PREREQ: MS 152.
MS 262 OCCUPATIONAL RELATIONS (2-0-3/F). 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.

Welding—Eleven Month Program
Certificate of Completion
The Welding Program provides the student with instruction, practical experience, and related theory in shielded metal arc welding (SMAW), oxy-fuel (OA) welding and brazing, oxy-acetylene (OA) welding and brazing, oxy-acetylene cutting of ferrous metals, plasma-arc cutting of non-ferrous metals, and the use of carbon arc cutting equipment. The first 9 months will be basic to intermediate welding. The summer session will be of 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 students 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.

Course Offerings
W 101-102 WELDING LABORATORY (4-0-5). The basic to intermediate portion of this program includes electric arc (SMAW) with mild and low alloy steel electrodes, oxy-fuel (OA) welding and brazing, metallic inert gas (MIG) welding, oxy-acetylene cutting of steel, and the use of carbon arc equipment.
W 103 WELDING LECTURE/LABORATORY (4-0-3/SU). Summer session for basic students to continue on track and for advanced students to work into TIG, PIPE and qualification tests. Further analysis on blueprint analysis, properties of materials, and safe operating procedures is given.

Business Machine Technology—Two Year Program
Associate of Applied Science Degree
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 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.
BM 155-156 BUSINESS MACHINE TECHNOLOGY (5-17-9) - This is a hands-on theory/lecture course in which the student is taught basic concepts of business machine repair. (22 clock hours per week).

BM 156 BUSINESS MACHINE TECHNOLOGY (5-15-9) - This is a hands-on theory/lab course in which the student is taught basic concepts of business machine repair. (20 clock hours per week).

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

BM 157-158 ADVANCED BUSINESS MACHINE TECHNOLOGY (7-17-11) - This is a hands-on theory/lab course in which the student is taught basic concepts of business machine repair including a special emphasis on troubleshooting techniques. Shop management, retail selling, computer programming and related math are also included. (24 clock hours per week) PREREQ: BM 155-156.

BM 255-256 ADVANCED BUSINESS MACHINE TECHNOLOGY (7-17-11) - This is a hands-on theory/lab course in which the student is taught advanced concepts of business machine repair including special emphasis on troubleshooting techniques. (24 clock hours per week) PREREQ: BM 155-156.

BM 271-272 ADVANCED ELECTRONIC THEORY (7-0-7) - This course is a study of digital electronics, semiconductors, microprocessors. (7 clock hours per week).

Course Offerings

BM BUSINESS MACHINE TECHNOLOGY

BM 111-112 COMMUNICATION SKILLS (3-0-3) - 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) - Directed toward the tact and methods necessary to communicate with the public. (2 clock hours per week).

BM 115 BUSINESS MACHINE TECHNOLOGY (5-17-9) - This is a hands-on theory/lab course in which the student is taught basic mechanical applied theory. (22 clock hours per week).

BM 155 BUSINESS MACHINE TECHNOLOGY (5-15-9) - This is a hands-on theory/lab course in which the student is taught basic concepts of business machine repair. (20 clock hours per week).

Apprenticeship, Trade Extension and Job Upgrading

Managers: Gary Arambbar, 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 journeymen workers. Such courses are designed to meet the specific needs of industry, labor, agriculture, and government. Classes usually meet in the evening. Flexibility of scheduling, content, place of meeting is maintained in order to meet the growing educational needs of the community. Typically, though not invariably, such courses provide related technical education for those workmen receiving on-the-job instruction in such vocations as sheetmetal, carpentry, plumbing, welding, electricity, electronics, typing, automobiles, nursing, and farming.

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

High School Equivalency (GED Preparation—No Credit)

The High School Equivalency Program is designed for people who are performing below a twelfth grade academic level. This program is designed to help students prepare for the high school equivalency test (GED). There is no charge for this service. Persons needing to pass the GED test should call the Adult Basic Education Learning Center at (208) 385-3681.

Pre-Technical Instruction

The School has assistance available for persons interested in entering programs who need brushup tutorial assistance to meet entrance requirements. There is no charge for this service. Interested persons should contact the Vocational Student Services Office at (208) 385-1144.
Boise State University Faculty
Full-Time Official Faculty As of January, 1986

A

Ackley, Louise ................................................................. (1969)
Assistant Professor, English; M.A., University of Washington
Aflake, Stephen B .............................................................. (1981)
Associate Professor, Engineering; Ph.D., Iowa State University
Allen, John W ................................................................. (1971)
Professor, Physics; Ph.D., Harvard University
Allen, Robert L .............................................................. (1976)
Advanced Instructor, Industrial Mechanics; B.A., Boise State University
Anderson, Robert ........................................................... (1970)
Professor, Mathematics; Ph.D., Michigan State University
Arambarrin, Gary ............................................................. (1976)
Senior Instructor, Welding; Coordinator, Technical Division; Diploma, Boise State University
Ashworth, Lonny J ........................................................... (1977)
Associate Professor, Respiratory Therapy; M.S., College of Idaho
Ayers, Karen L ................................................................. (1983)
Assistant Professor, Mathematics; Ph.D., University of Idaho

B

Baichtal Melanie ............................................................. (1983)
Instructor, Practical Nursing; B.S.N., Cal State, Chico
Baker, Charles W ............................................................. (1968)
Professor, Biology; Ph.D., Oregon State University
Baker, Donald ................................................................. (1985)
Assistant Professor, History; Ph.D., University of Washington
Baker, Elizabeth .............................................................. (1980)
Associate Professor, Nursing; M.S., University of California San Francisco
Baker, Richard P ............................................................... (1973)
Professor, Sociology; Chairperson, Soc, Anthro, & CJA Department; Ph.D., Washington State University
Baldassarre, Joseph A .......................................................... (1975)
Assistant Professor, Music; M.A., Baldwin-Wallace College
Baldner, Ronald .............................................................. (1978)
Senior Instructor, Welding; M.S., University of Idaho
Baldwin, John B ............................................................... (1971)
Professor, Music; Ph.D., Michigan State University
Ball, Richard ................................................................. (1974)
Professor, Mathematics; Ph.D., University of Wisconsin
Banks, Richard C ............................................................... (1968)
Professor, Organic Chemistry; Ph.D., Oregon State University
Barrett, Gwynn W ............................................................. (1968)
Professor, History; Ph.D., Brigham Young University
Barsness, Wylla D ............................................................ (1968)
Professor, Psychology; M.A., University of Minnesota
Barton, Charles Ray .......................................................... (1981)
Associate Professor, Political Science; Ph.D., University of Alabama
Bauwens, Jeanne ............................................................. (1984)
Assistant Professor, Teacher Education; Ed.D., University of Idaho
Bechard, Marc Joseph ........................................................ (1983)
Associate Professor, Biology; Ph.D., Washington State University
Belfry, John D ................................................................. (1982)
Assistant Professor, Management; Ph.D., Case Western Reserve University
Bixby, Michael .............................................................. (1981)
Assistant Professor, Management; I.D., University of Michigan
Blain, Michael .............................................................. (1983)
Assistant Professor, Sociology; Ph.D., University of Colorado, Boulder
Blankenship, Jim ............................................................ (1977)
Associate Professor, Art; M.F.A., Otis Art Institute
Bledsoe, Crissy M ............................................................. (1985)
Instructor, Nursing; M.S., University of Colorado, Boulder
Boren, Robert R .............................................................. (1971)
Professor, Communication; Chairperson, Communication Department; Ph.D., Purdue University
Bounds, Karen J .............................................................. (1973)
Associate Professor, Administrative Services; Ed.D., North Texas State University
Bowman, Clair M ............................................................. (1976)
Director, Institutional Research; Professor, Teacher Education; Ed.D., Indiana University
Boyer, Dale K ................................................................. (1968)
Professor, English; Ph.D., University of Missouri
Bratt, J Wallis ................................................................. (1970)
Associate Professor, Music; M.M., University of Utah
Brenner, Susan .............................................................. (1969)
Professor, Computer Information Systems; Ph.D., University of Iowa
Brinton, Alan P ................................................................. (1975)
Professor, Philosophy; Ph.D., Florida State University
Brown, Timothy .............................................................. (1977)
University Librarian; Associate Professor, Library Science; M.S., University of Illinois
Brownfield, Theodore ........................................................ (1979)
Standard Instructor, Hvy-Duty Mechanics (Diesel)
Buhler, Peter ................................................................. (1980)
Assistant Professor, History; Ph.D., University of California San Diego
Burlington, Richard E ........................................................ (1968)
Executive Vice President; Professor, Education; Ed.D., University of Alabama
Burkey, Ralph ................................................................. (1973)
Senior Instructor, Drafting Technology
Burmaster, Orvis ............................................................ (1968)
Assistant Professor, English; M.A., University of Montana
Buss, Stephen R .............................................................. (1979)
Assistant Professor, Theatre Arts; Chairperson, Theatre Arts; Ph.D., Washington State University
Butler, Doris A ................................................................. (1980)
Standard Instructor, Office Occupations; Diploma, Boise State University
Butterfield, Patricia .......................................................... (1983)
Assistant Professor, Nursing; M.S.N., University of Colorado, Boulder
Button, Sherman G .......................................................... (1976)
Professor, Physical Education; Ph.D., University of Utah

C

Cadwell, Dan E ............................................................... (1981)
Advanced Instructor, Business Machine Repair
Capell, Harvey J ............................................................. (1982)
Assistant Professor, Decision Sciences, Computer Information Systems; M.B.A., Northwestern University
Carlton, Douglas ............................................................ (1985)
Instructor, Electronics Technology; A.A., Green River Community College
Carlton, Janet ................................................................. (1974)
Advanced Instructor, Office Occupations; M.A., Boise State University
Carter, Loren S ............................................................... (1970)
Professor, Chemistry; Ph.D., Washington State University
Case, Michael ............................................................... (1985)
Assistant Professor, English; Ph.D., Arizona State University
Centanni, Russell .................................................. (1973)
Professor, Biology; Ph.D., University of Montana

Chase, Eileen .................................................... (1984)
Assistant Professor, Nursing; M.S., University of Utah

Chastain, Garvin ................................................ (1978)
Associate Professor, Psychology; Ph.D., University of Texas

Christensen, James L ........................................... (1970)
Associate Professor, Sociology; Ph.D., University of Utah

Clark, Marvin A ..................................................... (1969)
Professor, Administrative Services; Ph.D., University of Minnesota

Cocotis, Mardie A ................................................ (1972)
Associate Professor, English; D.A., Idaho State University

Colby, Conrad ..................................................... (1970)
Associate Professor, Respiratory Therapy, Medical Records; Chairperson,
Respiratory Therapy/Medical Record Sci; Director, Respiratory Therapy;
M.A., University of Montana

Collins, Maria T .................................................. (1984)
Assistant Professor, Teacher Education; Ph.D., University of Oregon

Connor, Doran L .................................................. (1966)
Assistant Professor, Physical Education; M.S., Utah State University

Corbin, A Robert .................................................. (1967)
Assistant Professor, Sociology; Th.M., IIiff School of Theology

Cornwell, Robert ................................................... (1969)
Professor, Administrative Services; Ed.D., Arizona State University

Cox, T Virginia .................................................... (1967)
Associate Professor, Anthropology; Ph.D., University of Georgia

Cox, Verl M ........................................................ (1977)
Professor, Communication; Ph.D., University of Kansas

Crane, David E ....................................................... (1969)
Head Librarian, Catalog & Serials Dept, Library; Associate Professor,
Library Science; M.A., San Jose State University

Craner, G Dawn .................................................... (1975)
Assistant Professor, Communication; M.A., Purdue University

Craychee, Gary A ..................................................... (1981)
Professor, Radiologic Sciences; Ph.D., University of Iowa

Curtis, "Merle" .................................................... (1971)
Instructor, Surgical Technology; Program Head, Surgical Technology;
M.S., University of Idaho

Dahlberg, E John Jr ............................................... (1970)
Professor, Teacher Education; Ed.D., University of Oregon

Dahm, Norman ...................................................... (1953)
Professor, Engineering; Associate Chairperson, Physics & Engineering
Department; M.Ed., University of Colorado

Dallas, Mary ........................................................ (1976)
Senior Instructor, Practical Nursing; Program Head, Practical Nursing;
M.S., University of Idaho

Dalton, Allen ....................................................... (1982)
Assistant Professor, Economics; M.A., Virginia Poly Inst & State
University

Dalton, Jack ......................................................... (1958)
Professor, Chemistry; Chairperson, Chemistry Department; M.S.,
Kansas State University

Davis, Charles ...................................................... (1963)
Professor, English; Chairperson, English Department; Ph.D., University of
North Carolina

Dayley, Jon Philip ................................................ (1982)
Assistant Professor, English; Ph.D., University of California Berkeley

Denison, Tom ...................................................... (1983)
Assistant Dean, School of Vocational-Technical Educ; Assistant Pro-
fessor; Ph.D., Washington State University

Dodson, Jerry ...................................................... (1970)
Professor, Psychology; Ph.D., Purdue University

Dodson, Robert B ................................................ (1979)
Standard Instructor, Electronics Technology; B.S.E.E., Seattle
University

Donaldson, Paul R ................................................ (1975)
Professor, Geology, Geophysics; Ph.D., Colorado School of Mines

Donoghue, Dennis .................................................. (1973)
Professor, Political Science; Ph.D., Miami University of Ohio

Dorman, Pat ........................................................ (1967)
Professor, Sociology; Ph.D., University of Utah

Douglas, Dorothy ................................................. (1981)
Associate Professor, Biology; Ph.D., University of California Berkeley

Douglas, J D Jr ....................................................... (1972)
Associate Professor, Art; M.F.A., Cranbrook Academy

Downs, Richard R ................................................ (1975)
Associate Professor, Psychology; Counseling Psychologist, Counseling
& Testing Center; Ed.D., Ball State University

Draayer, Gerald F ................................................ (1976)
Associate Professor, Economics; Director, Center for Economic Educa-
tion; Ph.D., Ohio University

Dykstra, Dewey I Jr ............................................ (1981)
Assistant Professor, Physics; Ph.D., University of Texas Austin

Eastman, Philip ..................................................... (1977)
Professor, Mathematics; Ph.D., University of Texas

Edmundson, Eldon ............................................... (1976)
Associate Professor, Public Health, Health Science; Acting Dean, Col-
lege of Health Science; Ph.D., Washington State University

Edmundson, Phyllis .............................................. (1974)
Professor, Teacher Education; Ed.D., University of Northern Colorado

Elliott, Wilber D .................................................... (1969)
Professor, Music; Chairperson, Music Department; M.E., Central
Washington University

Ellis, Robert W ..................................................... (1971)
Professor, Biochemistry; Ph.D., Oregon State University

Ericson, Robert E .................................................. (1970)
Assistant Professor, Theatre Arts; Ph.D., University of Oregon

Evett, Stuart D .................................................... (1972)
Assistant Professor, English; M.A., Vanderbilt University

Fahleson, Genger ................................................... (1974)
Assistant Professor, Physical Education; M.Ed., Univ of Wyoming

Ferguson, David J ................................................ (1970)
Assistant Professor, Mathematics; Ph.D., University of Idaho

Fletcher, Allan W .................................................. (1970)
Professor, History; Ph.D., University of Washington

Foraker-Thompson, Jane ....................................... (1982)
Assistant Professor, Criminal Justice Administration; Ph.D., Stanford
University

Fountain, Carol E ................................................ (1967)
Associate Professor, Teacher Education; M.N., Montana State University

Fox, Roy F .......................................................... (1978)
Assistant Professor, English; Coordinator, Composition, English
Department; Ph.D., University of Missouri Columbia

Associate Professor, Finance; Ph.D., University of Arizona

Frederick, Coston ................................................... (1971)
Professor, Teacher Education; Director, Reading Education Center;
Ph.D., Syracuse University

French, Judith ....................................................... (1976)
Associate Professor, Teacher Education; Ph.D., Florida State University

Friedli, Robert L ..................................................... (1972)
Professor, Teacher Education; Ph.D., University of Utah

Fritchman, II H ..................................................... (1954)
Professor, Biology; Ph.D., University of California Berkeley

Fuhriman, Jay R ..................................................... (1982)
Assistant Professor, Teacher Education; Director, Office for Educa-
tional Opportunities; Ed.D., Texas A & I University

Fuller, Eugene G ................................................... (1967)
Professor, Biology; Ph.D., Oregon State University

Gabert, Marvin C ................................................... (1979)
Associate Professor, Construction Management; M.A., Stanford
University

Gaines, Marlin ....................................................... (1980)
Instructor, Agricultural Equipment Tech;

Gallup, V Lynn ...................................................... (1977)
Associate Professor, Decision Sciences; Head Coach, Golf; Ph.D.,
University of Oregon

Gardner, Norman D ............................................. (1974)
Associate Professor, Finance; Ph.D., University of Utah

Gill, Edward K ....................................................... (1982)
Associate Professor, Finance; Ph.D., University of Oregon
Gill, Karen S. ..................................................... (1985)
Catalog Librarian, Catalog & Serials Dept, Library; Assistant Professor, Library Science; A.M.L.S., University of Michigan
Glassen, Gustav B. .................................................. (1979)
Instructor, Machine Shop; Certificate, Mergenthaler Linotype Co
Glen, Roy ............................................................ (1982)
Associate Professor, Management; Ph.D., Case Western Reserve University
Gourley, Margaret .................................................. (1978)
Advanced Instructor, Child Care; B.A., College of Wooster
Grantham, Stephen B ............................................. (1982)
Assistant Professor, Mathematics; Ph.D., University of Colorado, Boulder
Griffin, Charles ..................................................... (1981)
Assistant Professor, English; Ph.D., Northern Illinois University

H
Haacke, Don P ....................................................... (1971)
Head Librarian, Maps & Spcl Collections Dept, Lib.; Associate Professor, Library Science; M.L.S., University of Washington
Hadden, James ....................................................... (1972)
Assistant Professor, English; M.A., University of Washington
Haeger, James A ..................................................... (1982)
Associate Professor, Engineering; M.S.E.E., Montana State University
Hall, Lee Edward .................................................... (1979)
Advanced Instructor, Auto Mechanics Technology;
Hambelton, Benjamin E ............................................ (1975)
Director, Center for Technology; Assistant Professor, Teacher Education; M.Ed., Utah State University
Hansen, Ralph W ..................................................... (1979)
Associate University Librarian; Professor, Library Science; M.L.S., University of California Berkeley
Harbison, Warren ...................................................... (1977)
Associate Professor, Philosophy; Ph.D., Syracuse University
Hart, Richard L ......................................................... (1978)
Dean, College of Education; Professor, Education; Ed.D., University of Nebraska Lincoln
Hausrath, Alan .......................................................... (1977)
Associate Professor, Mathematics; Ph.D., Brown University
Healis, Donald V ....................................................... (1980)
Dean, School of Vocational-Technical Educ; Professor, Industrial Technology; Ed.D., Wayne State University
Heap, Felix A .......................................................... (1978)
Associate Professor, Art; Ph.D., University of Minnesota
Heise, Frank K .......................................................... (1971)
Associate Professor, Coordinator, Operations, Morrison Center; M.A., University of South Dakota
Heist, Noreen ........................................................ (1984)
 Instructor, Practical Nursing; B.S.N., University of Utah
Herrick, Linda .......................................................... (1982)
Assistant Professor, Teacher Education; Ed.D., University of Idaho
Hibbs, Robert A ......................................................... (1963)
Professor, Analytical Chemistry; Ph.D., Washington State University
Hill, Ken L .............................................................. (1968)
Professor, Teacher Education; Chairperson, Teacher Education Department; Ed.D., University of Idaho
Hoff, Lavar K ............................................................ (1969)
Instructor, Culinary Arts; B.S., Utah State University
Hogue, Kenneth D ..................................................... (1985)
Instructor, Auto Mechanics Technology; A.A.S., Oregon Institute of Technology
Hollenbaugh, Ken ...................................................... (1968)
Associate Executive Vice President; Dean, Graduate College; Professor, Geology; Ph.D., University of Idaho
Hoopes, Gaye .......................................................... (1978)
Assistant Professor, Art; M.A., Boise State University
Hopfenbeck, Ted H ..................................................... (1967)
Associate Professor, Criminal Justice Administration; M.Ed., University of Arizona
Hopper, James W ....................................................... (1970)
Associate Professor, Music; M.A., Iowa State University

Hsu, Madeleine ....................................................... (1971)
Professor, Music; Ph.D., New York University
Huff, Daniel D .......................................................... (1970)
Professor, Social Work; M.S.W., University of Kansas
Huff, Howard L .......................................................... (1965)
Professor, Art; M.F.A., University of Idaho
Hughes, Robert B ..................................................... (1971)
Professor, Mathematics; Ph.D., University of California Riverside
Hunt, Guy L .............................................................. (1970)
Dean, Admissions; Associate Professor, Education; Ph.D., Arizona State University
Huskey, Darryl L ....................................................... (1968)
Head Librarian, Documents Department, Library; Associate Professor, Library Science; M.L.I., Emporia State University
Hyde, Kenneth A ....................................................... (1979)
Instructor, Product Development, Educational Media Services; Assistant Professor, Education; M.Ed., Utah State University

I
Imbs, Bonnie J ......................................................... (1976)
Advanced Instructor, Dental Assisting; Program Head, Dental Assisting; Certificate, State University of New York
Isom, M. Gall .......................................................... (1970)
Professor, Psychology; Ph.D., University of Oregon

J
Jacoby Edward G ...................................................... (1973)
Head Coach, Men's Track; Assistant Professor, Physical Education; M.S., University of Northern Colorado
Jansson, Paul R ......................................................... (1981)
Assistant Professor, Consumer Electronics; Diploma, Cleveland Institute of Electronics
Jensen, John H ......................................................... (1969)
Professor, Teacher Education; Ph.D., University of Oregon
Jensen, Margaret G .................................................... (1982)
Associate Professor, Teacher Education; Ph.D., Texas A & I University
Job, Sharon D .......................................................... (1980)
Associate Professor, Nursing; M.Ed., Boise State University
Jocums, George A ....................................................... (1973)
Professor, Foreign Languages; Ph.D., University of Michigan
Johnson, David ......................................................... (1980)
Associate Professor, Social Work; M.S.W., Rutgers State University
Jones, Donald S ........................................................ (1970)
Senior Instructor, Business Machine Repair;
Jones, Errol D ........................................................... (1982)
Associate Professor, History; Ph.D., Texas Christian University
Juola, Robert C ........................................................ (1970)
Professor, Mathematics; Ph.D., Michigan State University

K
Keiser, John H ......................................................... (1978)
President, Boise State University; Professor, History; Ph.D., Northwestern University
Kelley, Fenton C ......................................................... (1969)
Associate Professor, Biology; Ph.D., University of California Berkeley
Kelly, James M .......................................................... (1985)
Professor, Management; Chairperson, Accounting Department; D.B.A., University of Colorado, Boulder
Kenny, G. Otis ........................................................... (1976)
Associate Professor, Mathematics; Ph.D., University of Kansas
Kerry, Charles R ......................................................... (1969)
Professor, Mathematics; Chairperson, Mathematics Department; Ph.D., University of British Columbia
Kettlewell, Ursula I ..................................................... (1979)
Associate Professor, Management; J.D., University of Idaho
Kempster, John .......................................................... (1970)
Professor, Art; M.F.A., Cranbrook Academy
Kern, Jay A .............................................................. (1975)
Assistant Professor, English; M.A., New York University
Kinney, Richard S ....................................................... (1976)
Associate Professor, Political Science; Ph.D., University of Notre Dame
Kirchland, William .................................................... (1969)
Professor, Teacher Education; Ed.D., Arizona State University
Kober, Alfred ........................................................... (1968)
Professor, Art; M.S., Fort Hayes Kansas State College

Faculty
Faculty

Kraker, Thomas L. (1977) Associate Professor, Radiologic Sciences; M.Ed., College of Idaho

Lambert, Carroll (1976) Professor, Teacher Education; Ed.D., Utah State University

Lamborn, Ellis W. (1968) Professor, Economics; Ph.D., Cornell University

Lamet, Daniel G. (1970) Professor, Mathematics; Ph.D., University of Oregon

Lane, Richard C. (1969) Associate Professor, Marketing; M.S., Kansas State University

Lathen, William (1984) Assistant Professor, Accounting; D.B.A., Arizona State University

Lauterbach, Charles E. (1971) Professor, Theatre Arts; Ph.D., Michigan State University

LaCava, Gerald (1982) Associate Professor, Decision Sciences; Ph.D., University of Kansas

Leahy, Richard (1971) Professor, English; Ph.D., University of California Davis

Leon, Manuel (1985) Assistant Professor, Psychology; Ph.D., University of California San Diego

Lester, Jody (1983) Instructor, Respiratory Therapy; B.S., Boise State University

Lewis, Ray (1973) Associate Professor, Physical Education; M.Ed., University of Idaho

Lichtenstein, Peter M. (1973) Professor, Economics; Ph.D., University of Colorado

Lincoln, Douglas J. (1980) Professor, Marketing; Chairperson, Mkting & Admin Services; Ph.D., Virginia Poly Inst & State University

Lingenfelter, Joan (1973) Senior Instructor, Child Care; Program Head, Business & Services; M.S., University of Idaho

Lojek, Helen (1983) Assistant Professor, English; Ph.D., University of Denver

Long, Elaine M. (1975) Assistant Professor, Nutrition; Acting Chairperson, Community & Environmental Health; M.S., Iowa State University

Long, James A. (1974) Associate Professor, Biology; Ph.D., Iowa State University

Lovin, Hugh T. (1965) Professor, History; Ph.D., University of Washington

Luke, Robert A. (1968) Professor, Physics; Chairperson, Physics & Engineering Department; Ph.D., Utah State University

Lundy, Phoebe J. (1966) Associate Professor, History; M.S., Drake University

Lynch, Donna (1979) Associate Professor, Nursing; M.S., University of Colorado

Lyons, Lamont S. (1977) Associate Professor, Teacher Education; Associate Dean, College of Education; Ed.D., University of Massachusetts

Matjecka, Anne (1977) Head Librarian, Curriculum Resource Ctr, Library; Assistant Professor, Library Science; M.L.S., State University of New York Albany

Matjecka, Edward R. (1976) Professor, Organic Chemistry; Ph.D., Iowa State University

Matson, Constance (1968) Associate Professor, Nursing; M.Ed., University of Idaho

Maxson, Emerson C. (1968) Associate Professor, Computer Information Systems; Chairperson, Info, Decision Sci, & Finance; D.B.A., Texas Tech University

McCain, Gary (1979) Associate Professor, Marketing; Ph.D., University of Oregon

McCloskey, Richard (1976) Professor, Biology; Ph.D., Indiana University

McCorkle, Suzanne (1978) Associate Professor, Communication; Ph.D., University of Colorado, Boulder

McCrorie, Duane (1985) Instructor, Radiologic Sciences; Ph.D., Whitworth College

McCulloch, Donna (1985) Associate Professor, Accounting; B.S.N., Montana State University

McGrath, Neill Brian (1983) Assistant Professor, Economics; Ph.D., Brown University

McGuire, Sherry (1967) Assistant Professor, English; M.A., Washington State University

McKee, Gerald (1983) Instructor, Electrical Lineperson; Certificate, Idaho Power Co

McLuskie, C Ed Jr (1981) Associate Professor, Communication; Ph.D., University of Iowa

Mech, William P. (1970) Professor, Mathematics; Director, Honors Program; Ph.D., University of Illinois

Medlin, John J. (1970) Associate Professor, Accounting; M.B.A., University of Denver

Mercer, Gary D. (1975) Professor, Inorganic Chemistry; Ph.D., Cornell University

Merz, Michael (1974) Professor, Accounting; B.A., University of Southern California

Metzger, Wanda M. (1976) Advanced Instructor, Office Occupations

Mikesell, Charles (1976) Senior Instructor, Auto Mechanics Technology

Miller, Beverly A. (1966) Reference Librarian, Rfrrnce Dept/Interlibrary Loan, Library; Associate Professor, Library Science; M.A., University of Denver

Miller, Merlin (1982) Associate Professor, Art; M.F.A., Brigham Young University

Moncrief, Gary D. (1976) Professor, Political Science; Ph.D., University of Kentucky

Mick, Bruce F. (1978) Assistant Professor, Radiologic Sciences; M.Ed., College of Idaho

Munns, Kenneth L. (1976) Associate Professor, Teacher Education; Ed.D., University of Idaho

N

Nelson, Anne M. (1967) Associate Professor, Education; Counseling Psychologist, Counseling & Testing Center; Ph.D., University of Oregon

Nelson, Karen (1985) Assistant Professor, Nursing; M.N., Brigham Young University

Newby, Gary R. (1966) Professor, Physics; Ph.D., Arizona State University

Nickerson, Ross S. (1966) Assistant Professor, English; M.A., University of Utah

Nil, David E. (1975) Associate Professor, Accounting; Ph.D., Brigham Young University

Norman, Frederick J. (1969) Professor, Arts; Executive Director, Morrison Center; M.A., University of Northern Colorado

O

Oakes, Donald R. (1966) Associate Professor, Music; Associate Chairperson, Music Department; M.M., Northwestern University
Odahl, Charles M. (1975) Professor, History; Ph.D., University of California San Diego
Oliver, Mamie (1972) Associate Professor, Social Work; Ph.D., Washington State University
Olson, Thomas (1975) Standard Instructor, Applied Mathematics; B.S.Ed., University of Idaho
Oravecz, David L. (1964) Associate Professor, Art; M.F.A., University of Wisconsin
Ostrander, Gloria (1971) Head Librarian, Monographs Dept., Library; Acquisitions Librarian; Assistant Professor, Library Science; M.L.S., University of Washington
Ourada, Patricia (1962) Professor, History; Ph.D., University of Oklahoma
Overgaard, Willard (1972) Professor, Political Science; Chairperson, Political Science & Philosophy Dept; Ph.D., University of Minnesota
Oyler, Neldon D. (1966) Instructor, Horticulture; B.S., Brigham Young University

P
Panitch, Arnold (1974) Associate Professor, Social Work; M.S.W., Wayne State University
Papenfuss, Herbert (1967) Professor, Biology; Ph.D., Colorado State University
Papinchak, Robert (1989) Assistant Professor, English; Ph.D., University of Wisconsin Madison
Parker, Ben L. (1977) Professor, Communication; Ph.D.; Southern Illinois University
Parkinson, Del R. (1985) Associate Professor, Music; D.M., Indiana University at Bloomington
Park, Donald J. (1973) Professor, Engineering; Ph.D., University of Minnesota
Pavesic, Max G. (1973) Professor, Anthropology; Ph.D., University of Colorado, Boulder
Payne, Richard D. (1970) Professor, Economics; Ph.D., University of Southern California
Pease, Ethel (1982) Associate Professor, Teacher Education; Ph.D., University of California San Francisco
Peck, Louis A. (1955) Professor, Art; Chairperson, Art Department; Ed.D., University of Idaho
Peck, Margaret (1969) Associate Professor, English; Associate Dean, College of Arts & Sciences; Ph.D., University of Nebraska
Pelton, John R. (1981) Associate Professor, Geology, Geophysics; Ph.D., University of Utah
Penner, June R. (1974) Professor, Philosophy; M.P.H., University of Oregon
Peterson, Ellis R. (1964) Professor, Physical Chemistry; Ph.D., Washington State University
Peters, Faith Y. (1979) Assistant Professor, Nursing; M.P.A., Boise State University
Pfeiffer, Ronald J. (1980) Assistant Professor, Physical Education; Ed.D., Brigham Young University
Phillips, Charles (1969) Professor, Management; Ph.D., University of Iowa
Phillips, John L. (1954) Professor, Psychology; Chairperson, Psychology Department; Ph.D., University of Utah
Pirrong, Gordon D. (1985) Associate Professor, Accounting; D.B.A., Arizona State University
Pitman, C Harvey (1966) Associate Professor, Communication; M.Ed., Washington State University
Pitts, Robert A. (1985) Professor, Management; D.B.A., Harvard University
Plew, Mark C. (1984) Assistant Professor, Anthropology; A.M., Indiana University at Bloomington
Porter, Sidney C. (1985) Assistant Professor, Mathematics; M.S., E. Washington State University

Q

R
Rayborn, David W. (1969) Associate Professor, Communication; M.S.; Southern Illinois University
Raymond, Gregory (1974) Professor, Political Science; Ph.D., University of South Carolina
Reimann, Richard J. (1975) Professor, Physics; Ph.D., University of Washington
Reynolds, R Larry (1979) Professor, Economics; Ph.D., Washington State University
Rinnert, Carol (1977) Assistant Professor, English; Ph.D., State University of New York Buffalo
Ritson, Robert Joseph (1985) Associate Professor, Physical Education; Ph.D., Washington State University
Roberts, George F. (1974) Associate Professor, Foreign Languages; Ph.D., University of Arizona
Rockne, Elaine C. (1968) Instructor, Medical Records; Director, Medical Record Science; B.A., College of St. Scholastica
Rudd, Robert A. (1985) Assistant Professor, Communication; Ph.D., University of Oregon
Russell, James K. (1969) Professor, Art; M.F.A., University of Iowa
Ruyle, Ada M. (1976) Vice President, Financial Affairs; Bursar; Professor, Education; Ed.D., University of Missouri
Rychert, Robert C. (1975) Professor, Biology; Chairperson, Biology Department; Ph.D., Utah State University

S
Sadler, Norma J. (1973) Professor, Teacher Education; Ph.D., University of Wisconsin
Sahni, Chaman L. (1975) Professor, English; Ph.D., Wayne State University
Sallie, Steven S. (1981) Associate Professor, Political Science; Ph.D., University of Nebraska Samball, Michael (1976) Associate Professor, Music; M.M., North Texas State University
Sanderson, Richard (1971) Associate Professor, English; Ph.D., New York University
Scanlon, Lee H. (1985) Associate Professor, Communication; Director; Ph.D., Brigham Young University
Schall, Frances M. (1982) Assistant Professor, Nursing; M.S.N., Vanderbilt University
Scheffer, Martin (1964) Professor, Sociology; Ph.D., University of Utah
Schoedinger, Andrew B. (1972) Associate Professor, Philosophy; Ph.D., Brown University
Scholes, Mary (1971) Senior Instructor, Special Needs; B.A., College of Idaho
Faculty

Schroeder, Gerald .................................................. (1978)
Associate Professor, Music; D.M.A., University of Colorado, Boulder
Schroeder, Jeff D .................................................. (1976)
Standard Instructor, Small Engine Repair; A.A.S., Boise State University
Scott, Stanley V .................................................. (1985)
Assistant Professor, Marketing; M.A., Ohio State University
Scudder, Duston R .................................................. (1964)
Professor, Ed.D., Oregon State University
Seddon, Carol .................................................. (1978)
Associate Professor, Medical Records; M.S., Oregon State University
Selander, Glenn E .................................................. (1966)
Assistant Professor, English; M.A., Utah State University
Shallat, Todd A .................................................. (1985)
Assistant Professor, History; Ph.D., Carnegie-Mellon University
Shankweiler, William E ........................................... (1956)
Professor, Theatre Arts; Ph.D., University of Denver
Shannon, Patrick .................................................. (1985)
Associate Professor, Decision Sciences; Ph.D., University of Oregon
Shelton, Melvin L .................................................. (1968)
Professor, Music; M.M., University of Idaho
Shin, Bong .................................................. (1979)
Associate Professor, Management; Chairperson, Management Department;
Ph.D., University of Georgia
Shurtleff, Cheryl .................................................. (1978)
Assistant Professor, Art; M.A., Boise State University
Simms, Robert C .................................................. (1970)
Professor, History; Dean, School of Soc Sci & Public Affairs; Ph.D.,
University of Colorado
Singh, Ramlaykha .................................................. (1975)
Professor, Teacher Education; Coordinator, Field Services, Teacher Education;
Ed.D., University of Northern Colorado
Skillern, William .................................................. (1971)
Professor, Political Science; Director, Interdisciplinary Humanities;
Ph.D., University of Idaho
Skirnats, Alexandra .................................................. (1970)
Advanced Instructor, Special Needs; M.A., Idaho State University
Skoro, Charles L .................................................. (1982)
Associate Professor, Economics; Chairperson, Economics Department;
Ph.D., Columbia University
Skow, Arny R .................................................. (1967)
Professor, Art; M.F.A., University of Idaho
Sluder, Stan .................................................. (1984)
Instructor, Electronics Technology; Certificate, Idaho State University
Smith, Brent .................................................. (1981)
Assistant Professor, Art; M.F.A., Utah State University
Smith, William S .................................................. (1973)
Professor, Physics; Ph.D., University of Wisconsin
Snow, Mark E .................................................. (1971)
Professor, Psychology; Ph.D., University of Utah
Snyder, Walter A .................................................. (1984)
Assistant Professor, Geology; Ph.D., Stanford University
Spafford, Stephen .................................................. (1972)
Director, University Admissions Counseling; Instructor, Political Science;
M.A., University of Oregon
Speake, Constance .................................................. (1981)
Associate Professor, Music; Ph.D., University of Michigan
Spinosa, Claude .................................................. (1970)
Professor, Geology; Chairperson, Geology Department; Ph.D., University of Iowa
Spitzer, Terry-Ann .................................................. (1981)
Assistant Professor, Physical Education; M.S., University of Illinois
Stack, James .................................................. (1984)
Instructor, Electronics Technology;
Stark, Frank W .................................................. (1957)
Professor, Chemistry, Physical Science; M.S., Trinity College
Steger, Harry L .................................................. (1972)
Professor, Psychology; Ph.D., University of Kentucky
Stitzel, Thomas E .................................................. (1975)
Dean, College of Business; Professor, Management, Finance; Ph.D.,
University of Oregon
Stratton, William .................................................. (1984)
Associate Professor, Accounting; Ph.D., Claremont Graduate School
Straub, Hilary .................................................. (1984)
Instructor, Nursing; M.S.Ed., Indiana University at Bloomington

Strong, Janet .................................................. (1973)
Head Librarian, Circulation Dept, Library; Orientation Librarian;
Associate Professor, Library Science; M.L.S., University of Washington
Sugiyama, Masao .................................................. (1974)
Associate Professor, Mathematics; Associate Chairperson,
Mathematics Department; Ph.D., Washington State University
Sulanke, Robert .................................................. (1970)
Professor, Mathematics; Ph.D., University of Kansas

T
Takeda, Yozo .................................................. (1969)
Professor, Mathematics; Ph.D., University of Idaho
Takehara, John S .................................................. (1968)
Professor, Art; M.A., Los Angeles State College
Taye, John A .................................................. (1975)
Associate Professor, Art; M.F.A., Otis Art Institute
Taylor, Adrien P Jr .................................................. (1977)
Head Librarian, Reference Dept, Library; Associate Professor, Library Science;
M.A., University of Denver
Taylor, David S .................................................. (1972)
Assistant Professor, Foreign Languages; Ed.D., University of Oregon
Tillman, Charles .................................................. (1977)
Advanced Instructor, Hvy-Duty, Mechanics (Diesel); Coordinator,
Mechanical Division; Diploma, University of Idaho
Towle, Mary Ann .................................................. (1976)
Senior Instructor, Prof. Nursing; B.S.N., University of Idaho
Treynowicz, Laurel .................................................. (1981)
Assistant Professor, Communication; Ph.D., University of Iowa
Trusky, A Thomas .................................................. (1970)
Associate Professor, English; M.A., Northwestern University
Tubbs, Stewart .................................................. (1983)
Associate Dean, College of Business; Coordinator, Master of Business Admin Program;
Professor, Management; Ph.D., University of Kansas
Tucker, Walter .................................................. (1975)
Advanced Instructor, Air Conditioning; Certificate, Idaho State University

U
Uehling, Karen S .................................................. (1981)
Assistant Professor, English; M.A., University of California Davis

V
Vahey, Joann T .................................................. (1973)
Professor, Nursing; Associate Dean, College of Health Science; Ed.D.,
Columbia University
Valverde, Luis J .................................................. (1965)
Professor, Foreign Languages; Ed.D., University of California Los Angeles
Vaughn, Ross E .................................................. (1973)
Associate Professor, Physical Education; Ph.D., Washington State University
Vinz, Warren L .................................................. (1968)
Professor, History; Chairperson, History Department; Ph.D., University of Utah

W
Waag, Charles J .................................................. (1981)
Professor, Geology; Ph.D., University of Oregon
Wade, Mildred R .................................................. (1981)
Associate Professor, Nursing; Director, Associate Degree Nursing;
M.S.N., University of Colorado
Waite, Wendon W .................................................. (1976)
Professor, Teacher Education; Ph.D., Utah State University
Waldorf, Larry L ........................................... (1970)
Associate Professor, Management; Ph.D., Colorado State University
Wallace, Steve R ........................................... (1972)
Assistant Professor, Physical Education; M.S., University of Utah
Walsh, Anthony ........................................... (1984)
Assistant Professor, Criminal Justice Administration; Ph.D., Bowling
Green State University
Walsh, Phil ........................................... (1985)
Instructor, Culinary Arts;
Walsh, Phillip F ........................................... (1985)
Instructor, Drafting Technology; Chairperson, Technical Division;
Warberg, William ........................................... (1977)
Associate Professor, Computer Information Systems; Director, Internships/Cooperative Education; Ed.D., Oregon State University
Ward, Frederick ........................................... (1969)
Professor, Mathematics; Ph.D., Virginia Poly Inst & State University
Warner, Kathleen C ........................................... (1966)
Assistant Professor, English; Ph.D., Indiana University
Watia, Tarmo ........................................... (1969)
Associate Professor, Art; M.F.A., University of Michigan
Watts, Donald J ........................................... (1973)
Senior Instructor, Drafting Technology; B.S.C.E., University of Idaho
Wertman, Donald L ........................................... (1978)
Senior Instructor, Machine Shop; A.A., Pennsylvania State University
Wheeler, Mary Anne T ........................................... (1983)
Assistant Professor, Teacher Education; Ph.D., University of Wisconsin Madison
White, Craig ........................................... (1980)
Associate Professor, Geology, Geophysics; Ph.D., University of Oregon
White, Wayne E ........................................... (1965)
Professor, Management; Director, Aviation Management; M.A.,
Arizona State University
Wicklow-Howard, Marcia ........................................... (1975)
Professor, Biology; Associate Chairperson, Biology Department; Ph.D.,
Oregon State University
Widmayer, Jayne A ........................................... (1981)
Associate Professor, English; Ph.D., University of Michigan
Wilcox, Marguerite ........................................... (1972)
Associate Professor, Nursing; M.N., University of California Los Angeles
Wilkinson, Edwin E ........................................... (1958)
Dean, Student Special Services; Associate Professor, Psychology; M.S.,
Washington State University
Williamson, Marge ........................................... (1967)
Associate Professor, Office Occupations; Secretary, Faculty Senate;
M.B.(Ed.), University of Idaho
Willis, Lonnie L ........................................... (1970)
Professor, English; Ph.D., University of Colorado
Wilson, Monte D ........................................... (1969)
Professor, Geology; Acting Dean, College of Arts & Sciences; Ph.D.,
University of Idaho
Wilterding, Jim ........................................... (1976)
Professor, Management; D.B.A., Texas Tech University
Associate Professor, Management; J.D., University of Michigan
Wise, Lowell G ........................................... (1983)
Instructor, Nursing; B.S., Boise State University
Wojtkowski, W Gregory ........................................... (1982)
Assistant Professor, Computer Information Systems, Decision
Sciences; Ph.D., Case Western Reserve University
Wojtkowski, Wita ........................................... (1983)
Assistant Professor, Computer Information Systems, Decision
Sciences; Ph.D., Case Western Reserve University
Wood, Spencer H ........................................... (1977)
Associate Professor, Geology, Geophysics; Ph.D., California Institute
Of Technology
Wyllie, Gilbert A ........................................... (1965)
Associate Professor, Biology; Ph.D., Purdue University
Young, Jerry ........................................... (1964)
Professor, Mathematics; Ed.D., University of Northern Colorado
Young, Mike ........................................... (1970)
Head Coach, Men's Wrestling; Assistant Professor, Physical Education;
M.A., Brigham Young University
Young, Virgil M ........................................... (1967)
Professor, Teacher Education; Ed.D., University of Idaho
Yunker, Douglas ........................................... (1976)
Associate Professor, Social Work; Chairperson, Social Work Depart-
ment; M.A., Indiana University
Z
Zirinsky, Hendriekje ........................................... (1984)
Associate Professor, English; Ph.D., University of North Carolina
Zirinsky, Michael ........................................... (1973)
Professor, History; Ph.D., Univ of North Carolina Chapel Hill

TAFT SEMINAR
FOR
TEACHERS
BOISE STATE UNIVERSITY
Boise State University Emeriti

Faculty

DOROTHY ALBERTSON, Professor, Office Administration (1953-1977)
THELMA F. ALLISON, Associate Professor (1946-1973)
JOHN B. BARNES, President, Boise State University (1967-1977)
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)
WILLIAM BRONSON, Professor, Psychology (1954-1970)
JAMES R. BUCHANAN, Associate Professor, Library Science (1959-1978)
CLARA BURCH, Associate Professor, Teacher Education, Library Science (1946-1978)
WILLIAM CARSON, Associate Professor, Accounting (1963-1982)
EUGENE CHAFFEE, President (1932-1967)
ACE HEL MCHATBURN, Professor, Education (1945-1977)
R. WAYNE CHATTERTON, Professor, English (1968-1983)
ROBERT DENEUFVILLE, Professor, Foreign Languages (1949-1973)
JAMES D. DOSS, Dean, College of Business, Associate Professor, Management (1970-1984)
CLISBY EDLEFSEN, Professor, Business (1939-1969)
J. CALVIN EMERSON, Associate Professor, Chemistry (1933-1940, 1960-1973)
EVELYN C. Everts, Associate Professor, Library Science (1957-1977)
MARJORIE FAIRCHILD, Associate Professor, Library Science (1966-1975)
MILTON FLESHER, Assistant Professor, Auto Mechanics Technology (1959-1974)
ALBERT FLECHER, Instructor, Auto Mechanics Technology (1965-1978)
JOHN F. HAGER, Associate Professor, Machine Shop (1954-1969)
CLAYTON HAHN, Associate Professor, Engineering (1948-1952, 1963-1981)
ALICE H. HATTON, Registrar (1959-1974)
KENNETH L. HILL, Professor, Education (1962-1970)
HELEN R. JOHNSON, Associate Professor, Business Education (1955-1978)
LEO JONES, Professor, Biology (1972-1981)
DORIS A. KELLY, Account Clerk, Emeriti Faculty (1958-1977)
NOEL KRIGBAUM, Assistant Professor (1955-1975)
MAX LAMBORN, Instructor, Parts Counterperson (1972-1981)
JOHN C. LEIGH, JR., Instructor, Drafting Technology (1971-1983)

ADELAIDE ANDERSON MARSHALL, Assistant Professor, Music (1939-1948, 1966-1972)
RUTH MCBIRNEY, University Librarian (1940-1942, 1943-1977)
CARROLL MAYER, Professor, Music (1948-1985)
FLORENCE MILES, Professor, Nursing (1955-1980)
KATHRYN ECKHARDT MITCHELL, Assistant Professor, Violin (1932-1938, 1939-1972)
Donald J. Obee Professor, Botany (1946-1977)
HAZEL M. ROE, Associate Professor, Office Administration (1942-1944, 1947-1969)
FRANK SMARTT, Assistant Professor, Mathematics (1958-1981)
DONALD D. SMITH, Professor, Psychology (1967-1984)
LYLE SMITH, Professor, Physical Education, Director, Intercollegiate Athletics (1946-1981)
JOSEPH SPULNIK, Professor, Chemistry, Dean, College of Arts & Sciences (1941-1976)
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 of Psychology (1966-1983)
LYLE TRAPP, Assistant Professor, Auto Body (1953-1967)
G. W. UNDERKOFER, Associate Professor, Accounting (1952-1974)
ELUNE WALLACE, Associate Professor, English (1968-1978)
GERALD WALLACE, Dean, School 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)
THOMAS Wilbanks, Assistant Professor, English (1964-1966, 1969-1977)
PETER K. WILSON, Professor, Business Administration (1966-1977)
ELLA MAE WINANS, Associate Professor, Mathematics (1958-1983)

Professional Staff

HERBERT W. RUNNER, Director, Institutional Research (1967-1984)

Classified Staff

MARY COZINE, Secretary-Office Coordinator (1972-1984)
LOIS CUMMINS, Library Assistant III (1966-1984)
KATHY TIPTON, Transfer Credit Graduate Evaluator (1969-1984)
CLARA B. WOOD, Custodian, Physical Plant (1970-1984)
INDEX

A
Absence from Class 17
Academic Calendar 3
Academic Enrichment and Special Programs 26
Academic Information 16-25
Academic Probation and Dismissal Policy 19
Accounting Courses 89
Accounting Degree 88
Accounting, Department of 88
Accreditation and Affiliation of Boise State University 6
Adding a Course 18
Address or Name Changes 18
Addresses of University Contacts 3
Admin Services, Business Education Program 99
Administrative Services—Marketing, Department of 99
Administrative Services Courses 100
Administrative Services Program 99
Administrative Withdrawals 19
Admission to Teacher Education 110
Admission to Upper Division Courses 20
Admissions Information 8, 10
Foreign Students 10
Graduate Students 10
Special Undergraduate Students 9
Transfer of Vocational
Technical/Academic Credits 9
Transfer Students 9
Vocational Technical Students 9

Admissions, Graduate 140
Adult Basic Education 31
Advanced Placement (AP) Exams 28
Advanced Placement and Credit 28
Advising and Registration 17
Agricultural Equipment Courses 163
Agricultural Equipment Technology 163
Air Conditioning, Refrigeration, Heating Courses 164
Air Conditioning, Refrigeration, Heating Program 164
Alumni Association 37
Anthropology Courses 83
Anthropology Program 80
Anthropology-Social Science Minor 82
Anthropology, Department of Sociology, Criminal Justice Administration and 255
Apartments, University 14
Appeal, Right of 18
Application for Graduation 21
Apprenticeship Programs 170
Architecture—Pre-Architecture 40
Area I—Arts and Humanities 21
Area II—Social Sciences 21
Area III—Natural Science—Mathematics 21
Art Courses 40
Art Graduate Courses 150
Art, Department of 39
Art, Master's Degree 150
Associate Degree Nursing Program 128
Associate of Applied Science Degree 24, 158
Associate of Arts Degree 24
Athletics 37
Attendance and Absence from Class 17
Audit vs. Credit Registration 17
Audit/Credit Changes 18
Auto Body 163
Auto Body Courses 163
Auto Mechanics Courses 163
Automotive Mechanics 163
Aviation Management Courses 97

B
Baccalaureate Degree Programs
Accounting 88
Admin Services, Business Education 99
Administrative Services 99
Anthropology 81
Art 40
Bachelor of Applied Science Degree 157
Biology 43
Biology, Secondary Education 43
Chemistry 45, 46
Chemistry, Secondary Education Option 45
Communication 69
Communication—English Combined Major 69
Computer Information Systems 96
Construction Management 63
Criminal Justice Administration 81
Earth Science Education 51
Economics 90
Economics, Social Science, Secondary Education 90
Elementary Bilingual/Multicultural 111
Engineering 63
English 47
Environmental Health 125
Finance 94
General Business 96
Geology 51
Geophysics 51
Health Science Studies 125
History 72
Management, Behavioral 97
Management, Human Resource 97
Management, Transportation 96
Marketing 99
Mathematics Program 54
Mathematics, Secondary Education 55
Medical Technology 133
Multi-Ethnic Studies 82
Music 57
Nursing Program 129
Philosophy 78
Physical Education 103
Physical Education, Secondary Education 329
Physics 63
Political Science 76
Pre-Dentistry—Biological Option 132
Pre-Dentistry—Chemistry Option 132
Pre-Medicine—Biological Option 132
Pre-Medicine—Chemistry Option 132
Pre-Veterinary Medicine 133
Production Management 94
Psychology 107
Psychology, Social Science, Secondary Education 108
Quantitative Management 95
Radiologic Technology 136
Real Estate 92
Respiratory Therapy 138
Social Science 82
Social Work 79
Sociology 83
Theatre Arts 66
Baccalaureate Degree Requirements 21-24
Bachelor of Applied Science Degree 24, 157
Bachelor of Arts Degree 22
Bachelor of Business Administration Degree 23
Bachelor of Fine Arts Degree 23
Bachelor of Music Degree 23
Bachelor of Science Degree 22
Bilingual Teacher Training Program 31
Biology Courses 43-44
Biology, Department of 42
Board and Room Charges 14
Business and Service Division, School of Vocational Technical Education 158
Business Development Center 32
Business Education Courses 100
Business Education Graduate Courses 151
Business Machine Technology Courses 170
Business Machine Technology Program 169

C
Calendar, Academic 3
Campus In Spain 30
Canadian Studies Courses 27
Canadian Studies Minor 27
Candidacy 141
Catalog Contents, Policy Statement Concerning 2
Center for Data Processing 31
Certificate of Completion, Vocational Technical Programs 158
Certification Endorsements for minor teaching areas 115
Certification Requirements and Endorsements for Secondary Education 115
Certification Requirements for Elementary Education 115
Challenges 140
Changes in Registration 18
Charges, Board and Room 14
Chemistry Courses 46
Chemistry Graduate Courses 156
Chemistry, Department of 45
Child Care Courses 160
Child Care Services 36
Child Service/Management 160
Class Standing of Students 16
Classification of Students 16
CLEP Exams 28
College of Arts and Sciences Graduate Programs 142
College of Business Graduate Programs 145
Colleges and Schools 38, 68, 87, 102, 123, 139, 157
Arts and Sciences 38
Business 87
Education 102
Graduate 139
Health Science 123
School of Social Sciences and Public Affairs 68
School of Vocational Technical Education 157
Communication Courses 70
Communication, Department of 68
Community and Environmental Health, Department of 124
Complete Withdrawal from the University 18
Computation of the Grade Point Average 17
Computer Capabilities 7
Computer Information Systems Courses 96
Computer Information Systems Degree 94
Computer Science Courses 56
Construction Management Courses 64
Construction Management Program 63
Construction Management, Physics, Engineering, Department of 62
Consultation Services 31
Contact, Telephone Numbers and Addresses 2
Cooperative Education 33
Core, General University Requirements 20
Correspondence Study 30
Counseling & Testing Center 35
Counseling and Testing Center 102
Course Adds 18
Course Descriptions
Accounting 89
Administrative Services 100
Agricultural Equipment 163
Air Conditioning 164
Anthropology 83
Art Courses 40
Art, Graduate 150
Auto Body 163
Auto Mechanics 163
Aviation Management 97
Biology 44
Botany Courses 44
Business Education 100
Business Education, Graduate 151
Business Machine Technology 170
G
GED Preparation 157
GED Training 31
General Business Courses 98
General Business Program 96
General Information 5-7
General Science Courses 54
General Science Graduate Courses 152
General University Degree Requirements (Core) 20-21
Geography Courses 53
Geology Courses 52-53
Geology Graduate Courses 152
Geology/Geophysics, Department of 50
Geology, Graduate Program 144
Geophysics Courses 54
Geophysics, Department of Geology 50
German Courses 118
Grading System 17
Graduate Classifications 140
Graduate College 139-156
Graduate Courses for Undergraduate Credit 140
Graduate Credit for Seniors 140
Graduate Credit Requirements 140
Graduate Degree Application 142
Graduate Faculty 139
Graduate Programs 139
Graduate Programs in Education 110
Graduate Programs, College of Education 146
Graduate Repeat, Retakes 140
Graduate Scholarship Requirements 140
Graduate 500-level Courses, Undergraduate Enrollment in 20
Graduation Requirements 20-25
Graduation, Application for 21
Greek Courses 118

H
Health Science Courses 126-127
Health, PE & Recreation Department 103
Heavy Duty Mechanics—Diesel 163
Heavy Duty Mechanics—Diesel Courses 164
High School Equivalency 170
High School Equivalency Program (HEP) 31
History Courses 73-74
History Degree Program 72
History Graduate Courses 153
History of Boise State University 5
History, Department of 72
History, Master's Program 153
Honors Courses 26, 27
Honors Program 26
Honors Program Scholarships 27
Horticulture 161
Horticulture Courses 161
Housing, Off Campus 15
Housing, Student 13-15
Humanities Courses 50
Idaho Business Development Center 32
Incomplete Grades 17
Independent Study 28
Industrial Mechanics Courses 168
Industrial Mechanics/Automation
Information Science, Department of 93
Information Systems Courses 96
Instructional Television Fixed Service 32
Insurance Coverage 11
Interdisciplinary Courses 27
Interdisciplinary Studies in the Humanities 27
International Students 36
Internships/Cooperative Education 33
ITFS (Instructional Television Fixed Service) 32
K
KAID 32
L
Late Registration 18
Library 7
Library Science Courses 119
Linguistics Courses 50
M
Machine Shop Courses 169
Majors and Degrees Offered 25
Management Courses 98
Management, Department of 96
Management, Entrepreneurial Program 97
Management, Human Resource Management Program 97
Management, Transportation Program 97-98
Marketing—Administrative Services, Department of 99
Marketing—Mid-Management 162
Marketing Courses 100-101
Marketing Program 99-100
Marketing-Mid-Management Courses 101
Marketing-Mid-Management Program 100
Master's Degree in Education (MA/MS)
Art Emphasis 150
Business Education Emphasis 151
Curriculum and Instruction 147
Early Childhood 147
Earth Science Emphasis 152
English Emphasis 152
History Emphasis 153
Mathematics Emphasis 154
Music Emphasis 155
Reading 148
Special Education 147
Master's Degree Programs Admissions, Graduate 240
Business Administration 145
Candidacy 141
Challenges 140
Course Load Limits 141
Course Numbering System 141
Degrees Offered 139
Final Examination Requirements 141
Foreign Language Requirements 141
Geology 144
Graduate Classifications 140
Graduate Courses for Undergraduate Credit 140
Graduate Credit for Seniors 140
Graduate Credit Requirements 140
Graduate Degree Application 142
Graduate Faculty 139
Graduate Repeat, Retakes 140
Graduate Scholarship Requirements 140
MA in Education—Art Emphasis 150
Predictive Examinations 140
Program Development Form 141
Public Administration 142
Residence Requirements 140
Supervisory Committee Assignment 140
Thesis Requirements 141
Time Limitations 141
Transfer of Credits 140
Mathematics 54
Mathematics Courses 56-57
Mathematics Graduate Courses 154
Mathematics, Department of 54
Mathematics, Master's Program 154
Mathematics, Secondary Education Program 35
MBA Elective Courses 146
MBA Required Courses 145
Mechanical Division, School of Vocational Technical Education 163
Medical Expense Insurance 36
Medical Record Science Program 127
Medical Record Science, Department of 127
Medical Records Courses 127-128
Medical Technology 133
Medical Technology Courses 134
MHAFB Program 30
Military Experience Evaluation 29-30
Military Science Courses 75-76
Military Science, Department of 74
Minor Certification Endorsements 115
Multi-Ethnic Studies 82
Multicultural Board 36
Music Applied, Courses 60
Music Graduate Courses 155
Music Program 57-58
Music, Department of 57
Music, Ensemble, Courses 59
Music General Courses 61-62
Music, Master's Program 155
N
Name or Address Changes 18
National Student Exchange 30
New Student Orientation 35
Non-Baccalaureate Degree

Programs
Agricultural Equipment Technology 163
Air Conditioning, Refrigeration, Heating 164
Anthropology-Social Science Minor 82
Apprenticeship Programs 170
Associate Degree Nursing 129
Associate of Applied Science Degree 24, 158
Associate of Arts 24
Auto Body 163
Automotive Mechanics 163
Business Machine Technology 169
Certificate of Completion, Vocational Technical Programs 158
Child Service/Management 160
Criminal Justice Administration 83
Culinary Arts Program 161
Day Care Assistant/Supervisor 160
Dental Assistant 158
Drafting Technology 167
Electrical Lineworker 164
Electronics Service Technology 167
Electronics Technology 165
Engineering 62
English Minor for Theatre Arts 67
Heavy Duty Mechanics—Diesel 163
Horticulture 161
Industrial Mechanics/Automation 168
Job Upgrading Programs 170
Machine Shop 170
Marketing—Mid-Management 162
Marketing-Mid-Management 100
Medical Record Science 127
Nursing, Associate Degree 128
Office Occupations 162
Practical Nursing 159
Pre-Architectural 40
Pre-Dental Hygiene 134
Pre-Dietetics 124
Pre-Forestry & Wildlife Management 44
Pre-Occupational Therapy 134
Pre-Optometry 134
Pre-Pharmacy 134
Pre-Physical Therapy 135
Pre-Technical Instruction 170
Psychology Minor 108
Radiologic Technology 136
Respiratory Therapy 137
Semiconductor Technology 165
Small Engine Repair 164
Sociology-Social Science Minor 82
Surgical Technology 160
Trade Extension Programs 170
Wastewater Technology 165
Welding 169
Wildlife Management & Preforestry 44
Nursing 128
Nursing Courses 130-131
Nursing, Department of 128

Index
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# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECORDING OF CLEP EXAMINATIONS, PAGES 28, 29, &amp; 30.</td>
<td>1</td>
</tr>
<tr>
<td>REQUIREMENT FOR MORE THAN 128 CR FOR SEC. ED., PAGES 39, 43, 45, 47, 52, 55, 60, 63, 67, 70, 72, 78, 81, 91, 99, 104, &amp; 115.</td>
<td>1</td>
</tr>
<tr>
<td>PREREQ FOR BT 401, PAGE 44.</td>
<td>1</td>
</tr>
<tr>
<td>REVISED EN 104, PAGE 65.</td>
<td>1</td>
</tr>
<tr>
<td>REVISED ML 102, PAGE 75.</td>
<td>1</td>
</tr>
<tr>
<td>THE ADDITION OF ML 390, PAGE 76.</td>
<td>1</td>
</tr>
<tr>
<td>REVISED ML 402, PAGE 76.</td>
<td>2</td>
</tr>
<tr>
<td>REVISED AS 317, PAGE 100.</td>
<td>2</td>
</tr>
<tr>
<td>REVISED RECOMMENDED JUNIOR &amp; SENIOR YEAR FOR MANAGEMENT MAJOR TRANSPORTATION OPTION, PAGES 96 &amp; 97.</td>
<td>2</td>
</tr>
<tr>
<td>REVISED AREA III REQUIREMENTS FOR PSYCHOLOGY, PAGE 108.</td>
<td>3</td>
</tr>
<tr>
<td>DELETION OF TE 307, PAGE 120.</td>
<td>3</td>
</tr>
<tr>
<td>REVISED DEGREE REQUIREMENTS FOR HEALTH SCIENCE, PAGE 125</td>
<td>3</td>
</tr>
<tr>
<td>Creation of H 120, page 126.</td>
<td>5</td>
</tr>
<tr>
<td>Creation of H 214/414, page 126.</td>
<td>5</td>
</tr>
<tr>
<td>Creation of H 215/415, page 126.</td>
<td>6</td>
</tr>
<tr>
<td>Deletion of H 298, page 126.</td>
<td>6</td>
</tr>
<tr>
<td>Deletion of H 310, page 126.</td>
<td>6</td>
</tr>
<tr>
<td>Deletion of H 313, page 127.</td>
<td>6</td>
</tr>
<tr>
<td>Changes to H 498, page 127.</td>
<td>6</td>
</tr>
<tr>
<td>REVISED PRE-VETERINARY MED., PAGE 133.</td>
<td>6</td>
</tr>
<tr>
<td>CHANGES TO RD 242, PAGE 136.</td>
<td>6</td>
</tr>
<tr>
<td>REVISION TO RD 285, PAGE 136.</td>
<td>7</td>
</tr>
<tr>
<td>REVISION TO RD 316, PAGE 136.</td>
<td>7</td>
</tr>
<tr>
<td>REVISION TO RD 320, PAGE 136.</td>
<td>7</td>
</tr>
<tr>
<td>REVISION TO RD 350, PAGE 136.</td>
<td>7</td>
</tr>
<tr>
<td>REVISION TO RD 436, PAGE 137.</td>
<td>7</td>
</tr>
<tr>
<td>REVISED COURSE OFFERINGS FOR THE MBA PROGRAM, PAGES 145 &amp; 146.</td>
<td>7</td>
</tr>
</tbody>
</table>

Table of Contents iii
REVISED TEACHER EDUCATION PROGRAM IN GRADUATE COLLEGE, PAGES 146 TO 148. ............................. 9
MASTER OF ARTS IN EDUCATION DEPARTMENT OF TEACHER EDUCATION ........................................... 10
Revised TE 501, page 149. .................................................. 14
Revised TE 502, page 149. .................................................. 14
Revised TE 503, page 149. .................................................. 14
Revised TE 504, page 149. .................................................. 15
Deletion of TE 507, page 149. ............................................ 15
Revised TE 508, page 149 .................................................... 15
Revised TE 515, page 149 .................................................... 15
Addition of TE 534, page 149 ............................................. 15
Addition of TE 560, page 149 ............................................. 16
Addition of TE 561, page 149 ............................................. 16
Revised TE 564, page 149 .................................................... 16
Deletion of TE 571, page 150 .............................................. 16
Revised TE 573, page 150 .................................................... 16

REVISED LISTING AND COURSE OFFERINGS FOR CULINARY ARTS PROGRAM, PAGE 161. .................. 17
Culinary Arts Program ...................................................... 17

REVISED LISTING AND COURSE OFFERINGS FOR OFFICE OCCUPATIONS PROGRAM, PAGE 162. .......... 23
Office Occupations - Nine Month Program ......................... 23

REVISIONS TO SUBJECTS SECTION AND COURSE OFFERINGS OF AUTO MECHANICS PROGRAM, PAGE 163. .............. 30
RECORDING OF CLEP EXAMINATIONS, PAGES 28, 29, & 30.

CLEP General Examinations will be recorded on a Boise State transcript with a grade of PASS after the student has successfully completed 15 credit hours with Boise State University. The student must be enrolled at the time the credits are recorded.

REQUIREMENT FOR MORE THAN 128 CR FOR SEC. ED., PAGES 39, 43, 45, 52, 55, 60, 63, 67, 70, 72, 78, 81, 91, 99, 104, & 115.

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.

PREREQ FOR BT 401, PAGE 44.

The prerequisite for BT 401 has been changed from B 301 to BT 130. Also BT 302 is a recommended course not B 302.

REVISED EN 104, PAGE 65.

EN 104 (CS 124) DIGITAL COMPUTER PROGRAMMING (2-0-2). 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.

REVISED ML 102, PAGE 75.

ML 102 INTRODUCTION TO MILITARY SCIENCE (1-1-1). Provides introduction to basic tactical Army communications, first aid for field environment casualties, structure and role of the U.S. Army, Army Reserves and National Guard and looks at various career fields in the Army. Laboratory consists of progressive participation in leadership exercises, adventure training and orientation.

THE ADDITION OF ML 390, PAGE 76.
ML 390 MILITARY SCIENCE PRACTICUM (V-V-6). Provides the student with the opportunity to apply the skills they have learned. Is completed at the 6 week ROTC Adventure Leadership Camp at Fort Lewis, Washington. NOTE: This is required by all contracted students and is usually required between MS III and MS IV years.

REVISED ML 402, PAGE 76.

ML 402 PROFESSIONAL PREPARATION (3-1-3). Includes a discussion of ethics and human relations, counseling techniques, military service in today's society; obligations and responsibilities of an officer on active duty; and coordination and operation of the military team. Students receive thorough leadership assessment and are responsible for planning and executing laboratory training.

REVISED AS 317, PAGE 100.

AS 317 OFFICE AND INFORMATION SYSTEMS MANAGEMENT. (3-0-3)(S). Introduction to: (1) the area of managing information as a resource; (2) strategic planning for information processing; (3) managing direct user information services for operating information systems, management information systems and office systems.

REVISED RECOMMENDED JUNIOR & SENIOR YEAR FOR MANAGEMENT MAJOR TRANSPORTATION OPTION, PAGES 96 & 97.

JUNIOR YEAR
Principles of Marketing MK 301 .................. 3 -
Management & Organizational Theory MG 301 3 -
Regional Economics EC 321 .................... 3 -
Business Communications AS 328 ................ 3 -
Principles of Finance FI 303 .................... 3 -
Transportation Law GB 371 ........................ 3 -
Principles of Transportation GB 325 3 -
Principles of Production Management DS 345 3 -
General Electives (Area I,II,III) ................. 3 -
General Electives ............................... 3 4
Totals ....................................... 18 16

SENIOR YEAR
Logistics Theory MG 350 ........................ 3 -
International Transportation MG 341 .......... 3 -
Airline/Air Cargo Management AV 351 ............ 3 -
Business Ethics GB 360 .......................... 3 -
Organizational Behavior MG 401 ................ 3 -
Government and Business GB 441 ............... 3 -
Business Policies GB 450 .......................... 3
Seminar in Air Transportation AV 450 .............. 3
General Electives (Area I, II, III) ................. 3
General Electives .................................. 3
Totals ............................................. 15

REVISED AREA III REQUIREMENTS FOR PSYCHOLOGY, PAGE 108.

Area III
Total Credits ...................................... 16
Core Courses ...................................... 12*
  Concepts of Biology B 100 ....................... 4
  Non-core courses ................................ 4
  Concepts of Human Anatomy and Physiology Z 107 4
  Mathematics .................................... 8*
*If the selected Mathematics courses are Area III Core Courses, they may also apply towards the requirement of 12 credits in the Area III Core.

DELETION OF TE 307, PAGE 120.

This class will no longer be offered.

REVISED DEGREE REQUIREMENTS FOR HEALTH SCIENCE, PAGE 125

HEALTH SCIENCE
Bachelor of Science Degree
1. English Composition E 101-102 .................... 6
2. Area I Core Requirements ......................... 12
3. Area II Core Requirements ....................... 12
4. Area III Core and Science Requirements ... 22-23
   College Chemistry C 131-134
   or
   Essentials of Chemistry C 107-110 ............... (9)
   Mathematics M 111 ................................ 5
   General Zoology and General Botany Z 130 ad BT 130
   or
   Human Anatomy and Physiology Z 111-112 .... (9 or 8)
5. Health Science Requirements .................... 16
   Introduction to Computers in Health Science H 120 (2)
   Health Delivery Systems H 202 .................... (3)
   Nutrition H 207 .................................. (3)
   Introduction to Health Law and Ethics H213
   or
   Public Health Law H 435 ........................ (2)
   Epidemiology H 480 ............................... (3)
Preprofessional Internship H 493 ........................................ (2)
Seminar H 498 or H 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 101 ........................................... (3)
   Chronic Illness H 205 .................................................. (3)
   Disease Conditions I and II H 211-212 ............................ (3-6)
   Assessment of Alcohol and Drug Problems Part I H 214/414 .... (3)
   Cardiopulmonary Renal Physiology H 220 ......................... (3)
   Pathophysiology H 300 ............................................... (4)
   Public Health Administration H 304 ................................. (3)
   Applied Pharmacotherapeutics H 306 ................................. (3)
   Principles of Education in Health Science H 406 .................. (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 or B 303 (4 or 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 with Laboratory C 211-212 ............. (5)
      Organic Chemistry with Laboratory C 317, 318, 319, 320 .... (10)
      Physical Chemistry C 321-324 ................................ (8)
      Biochemistry with Laboratory C 431-432 ....................... (4)
      Mathematics M 204 .............................................. (5)
      Statixtics m 120 .................................................. (4)
      A First Course in Programming CS 122 ......................... (2)
      General Physics PH 101-102 .................................. (8)
      Biophysics PH 207 ............................................... (4)
      Comparative Anatomy Z 301 .................................... (4)
      Vertebrate Imbryology Z 351 ................................... (4)
      Histology Z 400 ................................................. (4)
      Physiology Z 401 or 409 ...................................... (4)
      Or other courses as approved by the advisor.
   b. General Health Science Emphasis - select courses to total 39-41 credits:
      Microbiology B 205 ............................................... (4)
      Organic Chemistry with Lab C 317, 318, 319, 320 .......... (10)
      A First Course in Programming CS 122 ......................... (2)

4 BOISE STATE UNIVERSITY CATALOG 1986-87 Edition Addendum
Mathematics M 204 ........................................... (5)
Statistics M 120 or P 305 ..................................... (3)
General Physics PH 101-102 ................................. (8)
Economics EC 201-202 ......................................... (3-6)
Accounting AC 205-206 ....................................... (3-6)
Speech CM 211 ................................................... (3)
Communication in the Small Group CM 251 .......... (3)
American National Government PO 101 ............... (3)
Local Government PO 102 ................................. (3)
Introduction to Public Administration PO 303 ...... (3)
Public Finance PO 310 or EC 310 ......................... (3)
Principles of Marketing MK 301 ......................... (3)
Management and Organization Theory MG 301 .... (3)
Personnel Administration MG 305 ....................... (3)
Anatomical Kinesiology PE 230 ......................... (3)
Exercise Physiology PE 310 ............................... (3)
Biomechanics PE 311 ......................................... (3)
Psychology P 101 .............................................. (3)
Educational Psychology P 325 ............................. (3)
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. ......... 9-12

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.

CREATION OF H 120, PAGE 126.

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

CREATION OF H 214/414, PAGE 126.

H 214/414 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART I
(3-0-3)(F). Emphasis on issues relating to alcohol/drug dependency and
approaches to diagnosis and/or assessment. Legal, social, and health
implications will also be considered.
H 215/415 ASSESSMENT OF ALCOHOL AND DRUG PROBLEMS, PART II
(3-3-4)(S). Clinical application of concepts and principles presented in
Part I. Students will practice techniques of assessment/diagnosis of

DELETION OF H 298, PAGE 126.

This course will no longer be offered.

DELETION OF H 310, PAGE 126.

This course will no longer be offered.

DELETION OF H 313, PAGE 127.

This course will no longer be offered.

CHANGES TO H 498, PAGE 127.

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

REVISED PRE-VETERINARY MED., PAGE 133.

Genetics requirement has been changed from B 343-344 to B 343. The
Applied Animal Nutrition course has been dropped and the number of
elective credit hours has increased to 38 credit hours.

CHANGES TO RD 242, PAGE 136.

RD 211 is no longer a prerequisite for RD 242.
REVISION TO RD 285, PAGE 136.

The prerequisite for RD 285 has been changed form RD 238 to RD 234.

REVISION TO RD 316, PAGE 136.

The prerequisite for RD 316 has been changed from RD 222 and RD 242 to RD 242. There is also a corequisite of RD 311.

REVISION TO RD 320, PAGE 136.

The addition of the prerequisite RD 316.

REVISION TO RD 350, PAGE 136.

The prerequisite RD 252 has been dropped.

REVISION TO RD 436, PAGE 137.

All prerequisites and corequisite have been dropped and the statement "Upper division majors only or permission of instructor" has been substituted.

REVISED COURSE OFFERINGS FOR THE MBA PROGRAM, PAGES 145 & 146.

Course Offerings

MBA--Courses 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.

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.

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.

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.

GB 516 ORGANIZATIONAL THEORY AND BEHAVIOR (3-0-3) (S). This course covers the process of planning, organizing, directing, and controlling. Main topics include theories or organizational performance, structure and design, interpersonal and leadership skills. Emphasis placed on application of theory to business situations and on development of interpersonal skills.

MK 529 MARKETING MANAGEMENT (3-0-3) (S). This course includes a comprehensive examination of the activities and models used in marketing. It also includes identifying and interpreting buyers' needs, market segmentations, and designing a balanced marketing.

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

FI 525 CORPORATE FINANCE (3-0-3) (S). Concepts and techniques of corporate institutional and investment finance are examined. These include time value of money, corporate banking relationships, current assets management, and efficient markets. Prerequisite: AC 511, DS 513.

ADVANCED COURSES

AC 531 ACCOUNTING - PLANNING AND CONTROL (3-0-3) (F). This course includes the study of the planning and control processes to assist in the making of business decisions. Problems and cases are considered in profit planning and analysis, cost objective is an understanding of techniques of cost planning and control. Prerequisite: AC 511 or equivalent.
GB 536 BUSINESS IN A GLOBAL SOCIETY (3-0-3) (F). This course is an examination of the interaction between business and the economic, social, political, and legal order on a national and international basis. A case approach is used to focus attention on effects of this broad environment on managers. Some ethical issues and cross-cultural issues are explored. Prerequisite: GB 516 or equivalent.

MG 538 MANAGING PEOPLE IN ORGANIZATIONS (3-0-3) (F). This course is a systematic approach to the major phases of human resource management in organizations, including knowledge bases and theories; problems, constraints; opportunities; program controls, evaluations and costs; and results of effective and efficient human resources management. The perspective for the course is that of a generalist and not a specialist. Prerequisite: MG 528 or equivalent.

DS 533 DECISION ANALYSIS (3-0-3) (F). A study of decision-making in complex situations. Aids for identifying and modeling the decision problem, analyzing and responding to multiple objectives, utilizing subjective inputs, and evaluating and incorporating information. Prerequisite: DS 513 or equivalent.

MK 539 STRATEGIC MARKETING MANAGEMENT (3-0-3) (F). An analysis and integration of marketing concepts and models with organizational and environmental constraints. Emphasis on identifying opportunities, problems, selection, and development of alternatives. Also formulation and implementation of strategies, plans, and programs. Consumer, industrial, institutional and international markets included. Prerequisite: MK 529 or equivalent.

FI 545 ADVANCED FINANCIAL MANAGEMENT (3-0-3) (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: FI 525, EC 514 or equivalent.

GB 546 STRATEGIC PLANNING (3-0-3) (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-range plans and programs, executive and managerial controls. Prerequisites: AC 531, DS 533, FI 538, and MK 539.

REVISED TEACHER EDUCATION PROGRAM IN GRADUATE COLLEGE, PAGES 146 TO 148.

The changes to the Teacher Education program start on page 146 column two with "Graduate Core:". These changes end on page 148 column two just before "Course Offerings."
Graduate Core: Curriculum and instruction, Early Childhood, Reading, Special Education, Art, Business Education, Earth Science, English, History, Mathematics and Music emphasis:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>TE 570 Graduate Core-Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>TE 563 Conflicting Values in Education</td>
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Elective Courses (Select 2 from the following)

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>TE-560 School Organization and Finance</td>
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</tr>
<tr>
<td>TE-561 Law for the Classroom Teacher</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 566 Learning Theory and classroom Instruction</td>
<td>1</td>
</tr>
<tr>
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<td>6</td>
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</tbody>
</table>

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 emphasis: 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</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Graduate Core</td>
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</tr>
<tr>
<td>TE 551 Fundamentals of Education Research</td>
<td>3</td>
</tr>
<tr>
<td>TE 591 or TE 593 Thesis or Project</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives and specific requirements</td>
<td>18</td>
</tr>
<tr>
<td>Total</td>
<td>33</td>
</tr>
</tbody>
</table>

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 directly related to instruction or some other aspect of an educational program.

OPTION II  
(Comprehensive Examination)

<table>
<thead>
<tr>
<th>Course</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></td>
</tr>
</tbody>
</table>
or
TE 551 Fundamentals of Educational Research .......... 3
NOTE: Students selecting TE 559 are required to take TE 565 Interpreting Educational Research as one of the 1 credit core courses.
Approved electives and specific requirements .......... 24
TOTAL .......................................... 33

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

Curriculum and Instruction Emphasis

1. Graduate Core .................................. 6
2. TE 581 Curriculum Planning and Implementation ........ 3
3. TE 582 Analysis and Improvement of Instruction ........ 3
4. Content area courses ................................ 9
5. Elective options (choose I or II, below)
   I. Thesis-Project Option
      TE 551 Fundamentals of Ed. Research ............... 3
      TE 591 or 593 Thesis or Project ..................... 6
      Approved electives .................................. 3
   II. Comprehensive Written Examination
      TE 559 Philosophy of Education
      or
      TE 551 Fundamentals of Ed. Research ............... 3
      NOTE: Students electing TE 559 must take 1 credit core class, TE 565 Interpreting Ed. Research.
      Approved electives .................................. 9
TOTAL .......................................... 33

Early Childhood Emphasis

1. Graduate Core .................................. 6
2. TE 543 Early Childhood: Readings .................... 3
3. Two of the following three courses: ...................... 6
   TE 544 Early Childhood: Advanced Child Development .... 3
   TE 546 Early Childhood: Environments & Programs .... 3
   TE 547 Early Childhood: Language Acq & Dev ........... 3
4. TE 590 Practicum: Early Childhood .................... 2-4
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
      Approved electives .................................. 5-7
   II. Comprehensive Written Examination
      TE 559 Philosophy of Education
or

TE 551 Fundamentals of Ed. Research ........................................... 3

NOTE: Students electing TE 559 must take 1 credit core class, TE 565 Interpreting Ed. Research.

Approved electives ................................................................. 11-13

Total minimum hours ................................................................. 33

Reading Emphasis

For Those Primarily Responsible for Elementary School Instruction

1. Graduate Core ................................................................. 6
2. TE 501 Foundations of Reading Instruction ................................ 3
3. TE 502 Diagnosis & Correction of Read. Prob. - Elem ................. 3
4. TE 504 Seminar in Reading Education ....................................... 3
5. Option electives (choose I or II below)
   I. Thesis/Project
      TE 551 Fundamentals of Ed. Research ..................................... 3
      TE 591 or 593 Thesis or Project ........................................ 6
      Reading electives ......................................................... 3
      Approved electives ........................................................ 6
   II. Comprehensive Written Examination
       TE 559 Philosophy of Education
       or
       TE 551 Fundamentals of Ed. Research ..................................... 3

NOTE: Students electing TE 559 must take 1 credit core class, TE 565 Interpreting Ed. Research.

Reading electives ................................................................. 9

Approved electives ............................................................... 6

Total ................................................................. 33

For Those Primarily Responsible for Secondary School Instruction

1. Graduate Core ................................................................. 6
2. TE 501 Foundations of Reading Instruction ................................ 3
3. TE 508 Diagnosis & Correction of Read. Prob. - Sec ................. 3
4. TE 504 Seminar in Reading Education ....................................... 3
5. Option electives (choose I or II below)
   I. Thesis/Project
      TE 551 Fundamentals of Ed. Research ..................................... 3
      TE 591 or 593 Thesis or Project ........................................ 6
      Reading electives ......................................................... 3
      NOTE: Students should choose TE 407G Reading in the Content Subjects if they have not had a similar 3 credit course.
      Approved electives ........................................................ 6
   II. Comprehensive Written Examination
       TE 559 Philosophy of Education
       or
       TE 551 Fundamentals of Ed. Research ..................................... 3

NOTE: Students electing TE 559 must take 1 credit core class, TE 565 Interpreting Ed. Research.
Reading electives ........................................... 9
NOTE: Students should choose TE 407G Reading in the
Content Subjects if they have not had a similar 3 credit
course.
Approved electives ........................................ 6

Total .......................................................... 33

Special Education Emphasis

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

Educationally Handicapped:

1. Graduate Core .............................................. 6
2. TE 514 Counseling/Consulting Skills for Educators ........ 3
4. TE 523 Emotionally Eisturbed 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 Ed. Research .................. 3
      TE 591 or 593 Thesis or Project ..................... 6
      Approved electives .................................... 3
   II. Comprehensive Written Examination
      TE 559 Philosophy of Education 
      or
      TE 551 Fundamentals of Ed. Research ................ 3
      NOTE: Students electing TE 559 must take 1 credit core
class, TE 565 Interpreting Ed. Research.

      Approved electives .................................... 9

Suggested Electives:
TE 450G Behavior Intervention Techniques .................... 3
TE 502 Diagnosis & Correction of Read. Prob.-Elem ........ 3
TE 503 Clinic for Reading Specialists ....................... 3
TE 505 Individual Tests and Measurements .................. 3
TE 594 Internship: Secondary Special Education ........... 3
TE 596 Directed Research: Special Education ............... 3

Total .......................................................... 33

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 Eisturbed 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)

BOISE STATE UNIVERSITY CATALOG 1986-87 Edition Addendum 13
I. Thesis/Project option
   TE 551 Fundamentals of Ed. Research .......................... 3
   TE 591 or 593 Thesis or Project ............................. 6
   Approved electives ............................................. 3

II. Comprehensive Written Examination
   TE 559 Philosophy of Education
   or
   TE 551 Fundamentals of Ed. Research .......................... 3
   NOTE: Students electing TE 559 must take 1 credit core class, TE 565 Interpreting Ed. Research.
   Approved electives ............................................. 9

Suggested Electives:
   TE 423G Teaching the Severely Handicapped .................... 3
   TE 450G Behavior Intervention Techniques ..................... 3
   TE 546 Diagnosis & Evaluation in Early Childhood Ed. ......... 3
   TE 547 Language Acq. & Develop in Early Childhood Ed. ....... 3
   TE 594 Internship: Secondary Special Education .............. 3
   Advanced sign language class/.. /3/

Total .............................................................. 33

REVISED TE 501, PAGE 149.

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

REVISED TE 502, PAGE 149.

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

REVISED TE 503, PAGE 149.

TE 503 CLINIC FOR READING SPECIALISTS (3-0-3)(S). 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.

REVISED TE 504, PAGE 149.

TE 504 SEMINAR IN READING EDUCATION (3-0-3)(F/SU). 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 508 or permission of instructor.

DELETION OF TE 507, PAGE 149.

This course will no longer be offered.

REVISED TE 508, PAGE 149.

TE 508 DIAGNOSIS AND CORRECTION OF READING PROBLEMS - SECONDARY (3-0-3)(S/SU). 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.

REVISED TE 515, PAGE 149.

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.

ADDITION OF TE 534, PAGE 149.

TE 534 ISSUES & TRENDS IN SPECIAL EDUCATION (3-0-3)(S even years). This course will investigate the current issues and trends in the field of special education. It will be organized around six topical areas: 1) identification, 2) assessment, 3) eligibility, 4) service delivery, 5) intervention approaches, and 6) instructional strategies.
Discussion will be library research based and will focus on all areas of exceptionality in both elementary and secondary school settings. PREREQ: GRAD or PERM/INST.

ADDITION OF TE 560, PAGE 149.

TE 560 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.

ADDITION OF TE 561, PAGE 149.

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

REVISED TE 564, PAGE 149.

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.

DELETION OF TE 571, PAGE 150.

This course will no longer be offered.

REVISED TE 573, PAGE 150.

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.
Culinary Arts Program

1 Year - 2 Years

The purpose of the Culinary Arts Program is to provide exceptional 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.

CULINARY ARTS PROGRAM

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.

A Certificate of Completion will be awarded after one year (2 semesters) with the student earning at least a 2 point grade average. They must have a minimum of 2.5 grade point average to continue. They will receive an Associate of Applied Science degree awarded after two additional semesters, with the student earning at least a 2.0 grade point average.
**FIRST SEMESTER**

<table>
<thead>
<tr>
<th>Class Hours</th>
<th>Lab Hours</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CA 102 Culinary Skills Development</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>CA 103 Sanitation, Safety, Health</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>CA 104 Introductory Baking</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>CA 105 Cost Controls</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>CA 106 Product Identification</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>CA 107 Storeroom</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>CA 108 Legal Implications/Culinary Arts</td>
<td>1</td>
<td>-</td>
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<tr>
<td>CA 109 Culinary French</td>
<td>1</td>
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<tr>
<td>CA 112 Introductory Hot Foods</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>CA 113 Pantry, Basic Garde Manger</td>
<td>3</td>
<td>2</td>
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<tr>
<td>CA 114 Communications Skills</td>
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**TOTALS** 21 7 19

**SECOND SEMESTER**

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<tr>
<th>Class Hours</th>
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<tbody>
<tr>
<td>CA 115 Dining Room Procedures</td>
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<tr>
<td>CA 116 Meat Identification &amp; Fabrication</td>
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<td>-</td>
</tr>
<tr>
<td>CA 117 Stewarding</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>CA 118 Charcuterie (Sausage Making)</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>CA 119 Supervisory Development</td>
<td>1</td>
<td>-</td>
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<tr>
<td>CA 121 American Regional Cookery</td>
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<td>CA 122 Fish Cookery</td>
<td>1</td>
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<tr>
<td>CA 123 Communication Skills II</td>
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<tr>
<td>CA 262 Occupational Relations</td>
<td>2</td>
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<tr>
<td>CA 124 Kitchen Laboratory</td>
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**TOTALS** 12 22 17

**THIRD SEMESTER**

<table>
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<tr>
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<tbody>
<tr>
<td>CA Advanced Culinary Skills</td>
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<td>-</td>
</tr>
<tr>
<td>CA Advanced Banking</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>CA Advanced Cost Controls - Management Systems</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>CA Classical Baking</td>
<td>1</td>
<td>-</td>
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<tr>
<td>CA Wine Appreciation</td>
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<td>CA Beverage Control Systems</td>
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<td>CA Menu &amp; Facilities Planning</td>
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<td>CA International &amp; Oriental Cuisine</td>
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<td>CA Laboratory Kitchen</td>
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<tr>
<td>CA Funds of Speech</td>
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<td>-</td>
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</tbody>
</table>

**TOTALS** 11 24 17

**FOURTH SEMESTER**
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 (2-0-2)(F/S). Theory and practice of food and environmental sanitation in a food production area are stressed, with attention to food-related diseases and their origins. The sanitation course has been reviewed for compliance and approved by the Federal Food and Drug Administration. Students conduct a sanitation inspection of one of the Culinary Arts Programs facilities in their production areas.

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

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

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

CA 107 STOREROOM (1-0-1)(F/S). Students learn how to staff an operating storeroom and participate in receiving, storing and issuing of merchandise. Emphasis is on proper control and reporting procedures, with preparation of daily, weekly and monthly reports. Lectures cover purchasing regulations. Federal and trade grades, yields and quality controls are explained.
CA 108 LEGAL IMPLICATIONS/CULINARY ARTS (1-0-0)(F/S). Legal requirements affecting food service operations.

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

CA 112 INTRODUCTORY HOT FOODS (3-2-3)(F/S). Basic menu items such as soups, sauces, stocks, vegetables, and entrees are prepared. Fundamental concepts and techniques of food preparation are first demonstrated by the instructors and then practiced by the students.

CA 113 PANTRY, BASIC GARDE MANGER (3-2-3)(F/S). A survey course in the fundamentals of pantry, basic garde manger, and breakfast cookery. Students are instructed in the proper techniques and procedures for preparing a variety of lunch and dinner salads and salad dressings, hot and cold sandwiches, basic pates, quiches, garnishes, canapés, marinades, tea and fancy sandwiches, and hot and cold appetizers.

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

CA 115 DINING ROOM PROCEDURES I (1-0-1)(F/S). This basic course in dining room and supervision covers equipment, personnel responsibility, organization, customer relations, sanitation, table arrangements and set-ups. Service techniques for American table service are practiced. Basic gueridon service is explained and demonstrated.

CA 116 MEAT IDENTIFICATION AND FABRICATION (1-0-1)(F/S). Instructors demonstrate the cutting of meat and poultry into fabricated units and explains grading, quality and yield.

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

CA 118 CHARCUTERIE (SAUSAGE MAKING) (1-0-1)(F/S). This course teaches and gives understanding through lecture, demonstration and hands-on in all phases of sausage making, including smoking methods. For total utilization of meat by-products, students prepare forcemeats, pates and sausage.

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

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

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

CA 123 COMMUNICATION SKILLS 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 (2-22-5)(F/S). This lab will be used for the following classes: CA 115, CA 116, CA 118, CA 121, and CA 122.

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

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

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

CA 206 CLASSICAL BAKING (1-0-1)(F/S). Students produce assorted tortes required for special functions and restaurant use, and also work on buffet pieces utilizing patillage, nougat, marzapan, chocolate, and pulled sugar. Ice cream desserts are demonstrated.
CA 207 WINE APPRECIATION (1-0-1)(F/S). The wines of France, Italy, Germany, and America are discussed. Students learn through actual tasting of the wines studied. History, label interpretation, vocabulary, wine laws, and various methods of processing are covered in the lectures. Class conducted off campus. Majors only.

CA 208 BEVERAGE CONTROL SYSTEMS (1-0-1)(F/S). This comprehensive review of beverage control in food service establishments includes purchasing, receiving, storage and issuing procedures. An in-depth study is made of portion and quality control, costing, merchandising, stocking the bar, and perpetual and physical inventories. The nature of various spirits, beers and alcoholic beverages. Preparation and identification of all drinks demonstrated. Off campus. Majors only.

CA 209 MENU AND FACILITIES PLANNING (1-0-1)(F/S). Basic principles and concepts of menu planning, menu formats and layout are studied in detail with regard to the eating habits and tastes of and social groups. Pricing and control of menu items, designing a salable menu, and menus as management and merchandising tools are defined. The various types of establishments, such as full-service, quick-service, and take-out are discussed.

CA 212 INTERNATIONAL AND ORIENTAL CUISINE (1-0-1)(F/S). Students research and prepare menus representative of different countries and cultures. Cuisines emphasized are Middle Eastern, Spanish, South American, German and Austrian, Swiss, Scandinavian, Italian, Belgian, and Dutch. Students prepare several different menus based on actual Chinese (Szechwan, Cantonese, Peking, Hunan), Japanese and Polynesian recipes.

CA 213 ADVANCED GARDE MANGER (1-0-1)(F/S). Students progress to advanced instruction in cold food preparation and presentation techniques. Charcuterie, specialty canapes, hors d'oeuvres, appetizers, pates, galantines, chaud-froids, terrines, tallow and ice carving, aspics, mousses, cold sauces, vegetable carving, and food decoration are all demonstrated and prepared.

CA 214 KITCHEN LABORATORY (0-2(06))(F/S). This laboratory will be used for all theory classes in third semester.

CA 215 CLASSICAL CUISINE (1-0-1)(F/S). Advanced and sophisticated classical culinary preparation, following the principles and techniques of Auguste Escoffier. Emphasis is on French cuisine. Students prepare a complete menu daily with special consideration of cooking techniques, timing and presentation. History and terms relative to classical foods and menus are discussed. Students plan, prepare, and serve a graduation dinner.

CA 216 BANQUET ORGANIZATION (1-0-1)(F/S). Banquet-table service operation is practiced, with emphasis on timing and kitchen coordination. Russian service is practiced daily. Legal consideration associated with catering is taught, along with the development of sales planning, menu layout, floor plan, ceremonial functions.
(weddings, etc.), and running on-and-off-premises catering for different functions. Kosher catering is discussed as applied to Jewish weddings, bar mitzvahs, etc.

CA 217 DINING ROOM A LA CARTE PREPARATIONS (1-0-1)(F/S). Emphasis is on the preparation of a la carte menu items, as students follow the traditional European brigade system and work all the stations in the kitchen on a daily rotation basis. Stress is on student production of the highest-quality menu items through proper techniques; presentations and service. The majority of items are cooked to order.

CA 218 AMERICAN BOUNTY A LA CARTE FOOD PREPARATION (1-0-1)(F/S). Students prepare a la carte items for a menu based on American regional cooking. High standards are adhered to, and students are required to prepare daily specials on a rotating basis.

CA 224 KITCHEN LABORATORY PREPARATION (0-24-6)(F/S). This laboratory will be used for all Theory classes in fourth semester.


REVISED LISTING AND COURSE OFFERINGS FOR OFFICE OCCUPATIONS PROGRAM, PAGE 162.

Office Occupations - Nine Month Program

Certificate of Completion

The Business and Office Education Program is designed to meet the needs of students as they prepare to enter the business world in both private industry and government. Upon enrollment in the program, the student have an opportunity to pursue a one-year certificate or a two-year Associate of Applied Science degree in the following options: Secretary; Word Processing; or Bookkeeper.

The Business and office Education Program at Boise State University is competency based: it prespecifies the performance objectives expected of the students and it identifies the necessary competencies to be employable in their chosen career.

Approved cooperative education in an office and/or competency testing may be substituted for a segment of a course with special permission of the program head and division manager.
A minimum grade of "C" is required in all Business and office coursework to graduate with an Associate of Applied Science degree or a Certificate of Completion.

**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 competently perform the duties required of this particular job.

Upon successful completion of this option, the learner will not only possess the necessary skills and knowledge to enter the world of work as a 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.

**FRESHMAN YEAR**

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<tr>
<th>Course</th>
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**SOPHOMORE YEAR**

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**Associate of Applied Science Degree**  
**Business and Office Education (Bookkeeper Option)**
This option is designed for the student to obtain a basic knowledge of the business world and to develop the necessary skills to competently perform the duties required of this particular job.

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

**FRESHMAN YEAR**

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**TOTAL**

- *1-Year Student* 17 16
- **2-Year Student** 17 19

**SOPHOMORE YEAR**

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**TOTAL**

- 19 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 competently perform the duties required of this particular job.

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

**FRESHMAN YEAR**

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**SOPHOMORE YEAR**

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**OTHER TECHNICAL ELECTIVES**

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<td>Basic Principles of Law for Medical Transcriptionists and</td>
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Medical Office Personnel (OF 167)

Course Offerings

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 105 BUSINESS MATH (3-4-3)(F/S). Fundamental operations of arithmetic in business usage. Applications of business math as used in accounting, management, consumer education, and retailing are stressed.

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

OF 107 BASIC OFFICE PROCEDURES (3-2-3)(F/S). This course provides training in filing, telephone techniques, mailing procedures, making appointments, arranging conferences, preparing itineraries, receiving and routing callers, practice in typing the various office forms, and introduction to machine transcription. PREREQ: Demonstrated proficiency in typing.

OF 108 BOOKKEEPING 1 (3-4-4)(F/S). Designed to prepare students for the new environment in the modern office. Teaches the use of the general and specialized journals, general and subsidiary ledgers, how to prepare and analyze financial statements, and an introduction to computerized bookkeeping.

OF 109 BUSINESS ENGLISH (2-4-3)(F/S). Emphasis on development of skills in grammar, sentence structure, word usage, punctuation, and vocabulary. Coverage of capitalization and number usage rules as well as abbreviations. Must complete course with C or better to continue. PREREQ: Demonstrated competency/pretest.

OF 119 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 125 BEGINNING SHORTHAND (4-4-5)(F/S). A beginning course in Gregg Shorthand (Series 90). Course includes the alphabet, brief forms, word beginnings and endings, phrasing, and word building principles learned through reading, writing, and taking dictation of extensive connected material. PREREQ: Demonstrated proficiency in typing or current enrollment in Keyboarding.
OF 151 INTERMEDIATE SHORTHAND (4-4-5)(F/S). Application of shorthand theory to construct new outlines rapidly from dictation. Emphasizes development of typewritten transcription skills and mailable letter skills. PREREQ: OF 125 or advanced placement through proficiency exam.

OF 152 BOOKKEEPING II (3-4-4)(F/S). Designed to provide a practical knowledge of cost analysis for bookkeeping systems and procedures. Primary concepts include job order and process cost allocation, planning, control responsibility for the accounting and reporting process. PREREQ: OF 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 those needs and skills to a prospective employer in a professional manner. Emphasizes: self-analysis, researching employers, resume and cover letter, effective interview techniques, and career planning.

OF 154 INTRO TO INFORMATION PROCESSING (3-0-3)(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 (3-4-4)(F/S). Stresses speed, accuracy and production work. Practice in making decisions concerning formatting all types of documents with emphasis on mailability. 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 adjustments. Psychology, format, content, and style of business letters will be covered. Grade of C or better required to continue. PREREQ: OF 109.

OF 165 BASIC MEDICAL TERMINOLOGY, ANATOMY AND PHYSIOLOGY (2-0-2)(F/S). This course provides intensive study of medical termi-
nology, 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 (1-4-2)(F/S). OFFICE PERSONNEL (1-0-1)(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). OFFICE PERSONNEL (1-0-1)(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). OFFICE PERSONNEL (1-0-1)(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). OFFICE PERSONNEL (1-0-1)(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). OFFICE PERSONNEL (1-0-1)(F/S). Emphasis is on continued speed building in taking dictation and transcribing. Course includes review of business vocabulary, punctuation, and grammar. PREREQ: OF 151 or advanced placement through proficiency exam.

OF 206 COMPUTER BUSINESS APPLICATIONS (3-2-3)(F/S). OFFICE PERSONNEL (1-0-1)(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 251 RECORDS MANAGEMENT PROCEDURES (2-4-3)(F/S). OFFICE PERSONNEL (1-0-1)(F/S). A study of the principles and procedures of records management, including creation, retention, processing maintenance, protection, transfer, and disposal of records.

OF 252 APPLIED BUSINESS COMMUNICATIONS (2-4-3)(F/S). OFFICE PERSONNEL (1-0-1)(F/S). Course is designed to improve student's ability to communicate effectively through written and verbal media as well as to develop a systematic and creative approach to solving communication problems through studying and applying principles of effective writing. Emphasis on report writing with research. Concentrates on gathering and writing the information. PREREQ: OF 159.

OF 253 FUNDAMENTALS OF SUPERVISION (2-4-3)(F/S). OFFICE PERSONNEL (1-0-1)(F/S). Introduction to fundamental principles of first-line supervision, emphasizing the following: Role/responsibilities of the supervisor; training, motivating and developing employees; problem-solving and time management; effective communication; assertiveness and conflict management; performance evaluation.

OF 254 SPREADSHEET II (3-4-4)(F/S). OFFICE PERSONNEL (1-0-1)(F/S). Designed to give students the knowledge and skills necessary to create spreadsheets performing advanced functions. Emphasis will be on creating typical business documents such as: budgets, payroll, amortization and depreciation schedules.

OF 255 WORD PROCESSING II (2-4-3)(F/S). OFFICE PERSONNEL (1-0-1)(F/S). Continuation of Word Processing I with special text applications such as footnotes, headers, outlines, and merging. PREREQ: OF 203.

REVISIONS TO SUBJECTS SECTION AND COURSE OFFERINGS OF AUTO MECHANICS PROGRAM, PAGE 163.

SUBJECTS

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<td>Basic Mechanics AM 101</td>
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<td>Automotive Service Cooling AM 102</td>
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<td>Automotive Brakes AM 110</td>
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<td>Front End &amp; Alignment AM 115</td>
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<td>Automotive Electrical Systems AM 125</td>
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<td>Engine Performance AM 130</td>
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<td>Engine Repair AM 135</td>
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<td>Manual Trans. &amp; Differ. AM 140</td>
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30 BOISE STATE UNIVERSITY CATALOG 1986-87 Edition Addendum
AM 108 BASIC AUTOMOTIVE MECHANICS (1-1-1)(F). Basic principles of automotive mechanics including orientation, shop math, hand tool, fastener and equipment identification, shop organization procedures and safety will be covered. This course is required for all auto mechanics students prior to additional coursework.

AM 109 AUTOMOTIVE SERVICE, COOLING (2-2-2)(F). This course introduces the student to the theory and practice of automotive service with special emphasis on servicing the cooling systems of automobiles.

AM 117 AUTOMOTIVE BRAKE SYSTEMS (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 disassemble, parts evaluation, parts repair and replacement, and proper disassemble 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 disassemble techniques, parts evaluation and proper assembly.

AM 145 EXHAUST SYSTEMS (1-1-1)(SU). Students will learn evaluation of exhaust systems and replacement or repair of faulty system components. Prerequisite: AM 120, Basic Welding Techniques.

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

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

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

AM 195 ADVANCED ENGINE PERFORMANCE (3-6-4)(SU). The student will be taught the use of advanced diagnostic equipment to trouble-shooting and repair automobile performance, with emphasis placed on electronic related problems.

AM 235 NIASE CERTIFICATION (2-3-2)(SU). This course is designed to prepare students for National Institute of Automotive Service Excellence Certification examinations. Prerequisite: permission of Division Manager.

AM 262 OCCUPATIONAL RELATIONS (2-0-2)(F). This course teaches job searching, proper completion of job application blanks, job keeping skills, resume and curriculum vital development, and telephone techniques.
IF YOU ARE PLANNING TO ENROLL IN A COURSE IN THIS CATALOG - PLEASE CHECK THIS SHEET FOR ANY CHANGES THAT MAY PERTAIN!!

Corrections to this 1986-87 Bulletin

College Courses

Actg. C305 IS NOT AVAILABLE; it is currently being rewritten.
Bact. C154 IS NOT AVAILABLE; it is currently being rewritten.
Biol. C200 IS NOT AVAILABLE; it is currently being rewritten.
Bus. C466 HAS BEEN REVISED; the new revision has 15 lessons and 3 exams. The texts to order are Barnes and Dworkin, Law for Business, Richard Irwin, 1987 and the Student Workbook for use with Law for Business.
Bus. C467 HAS BEEN REPLACED by a revision entitled Bus. C366; the new revision has 15 lessons and 3 exams. The text to order is the same as for Bus. C466.
FL/FR C101a - Elementary French - NO LONGER OFFERED.
FL/S C101 requires the student to also purchase the Manual of Exercises to Accompany Habla Espanol? Essentials.
Psych. C100 IS AVAILABLE; offered for 3 credits (22 lessons; 2 exams). The text to order is Wade and Tavris, Psychology, Harper and Row, 1987.
Psy ch. C309 requires the student to also purchase a supplementary packet of materials.
Soc. C110 IS NOT AVAILABLE; it is currently being rewritten.
Soc. C330 IS NOT AVAILABLE; it is currently being rewritten.
Sp. Ed. C323 IS NOT AVAILABLE; it is currently being rewritten.
Voc. Ed. C473 IS NOT AVAILABLE; it is currently being rewritten.

High School Courses

AS OF SEPT. 1, 1987 HIGH SCHOOL COURSE FEES INCREASED FROM $70.00 to $80.00.
Amer. Govt. I is replaced by the new course called State and Local Government II which has 16 lessons and 2 exams. The text to order is Duncombe & Weisel, State and Local Government in Idaho and the Nation, University of Idaho Research Foundation, 1984.
9th Engl. I & II ARE NOT AVAILABLE; they are currently being rewritten.
10th Engl. I & II ARE NOT AVAILABLE; they are currently being rewritten.
11th Engl. I & II ARE NOT AVAILABLE; they are currently being rewritten.
12th Engl. I, II & III ARE NOT AVAILABLE; they are currently being rewritten.
Gen. Math I & II ARE NOW AVAILABLE; both with 12 lessons, 4 exams. The text to order is Stein, Second Course in Fundamentals of Mathematics, Allyn and Bacon, 1986.
Health Education IS A NEW COURSE, offered for 1/2 unit (one semester); (18 lessons; 8 exams). Order text: Althaus, Thompson, Walker and Zuti, Health, Scott, Foresman Publisher, 1987.
Probs. in Amer. Dem. IS NOT AVAILABLE; it is currently being rewritten.

Check with the Correspondence Study Office for availability of the courses listed as unavailable at this time.
TO: Delbe Christiansen  DATE: July 10, 1986
FROM: Robert Luke
SUBJECT: department split

For all practical purposes the dept of physics, engineering, and const engt was split as of July 1, 1986. It will not be formalized until Sept-Oct. Norm Delan is chm of Const Engt & Engineering and I am chm of Physics. Registration, scheduling, etc. from now on will be on the basis of the 2 separate departments.

Thanks

(over)
First Name 0155
Phyllis Moon 5493
Jim Jones 3373
Den Steele 6925
Man Job 3014
New Decor 1714
Dated No.

const. Mfg. Eng. Frustrated

Willy Smith 8012
Richard Kliman 7395
Gary Nebed 6043
Robert Luke 5361
Dewey Dyefer 1989
John Allen 0335
Phyllis Frustrated

Dated 05/14/001