College of Health Science

Dean: Victor H. Duke, 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

Caldwell Memorial Hospital, Caldwell
Central District Health Department, Boise
Community Home Health, Boise
Grand Oaks Healthcare, Boise
Idaho Elks Rehabilitation Hospital, Boise
Idaho Veterans Nursing Home, Boise
Intermountain Hospital, Boise
Kootenai Memorial Hospital, Coeur d’Alene
Magic Valley Regional Medical Center, Twin Falls
Mercy Medical Center, Nampa
Missoula Community Hospital, Missoula
Moritz Community Hospital, Sun Valley
Patient and Family Support Institute, Inc., Boise
St. Alphonsus Regional Medical Center, Boise
St. Joseph’s Hospital, Inc., Lewiston
St. Luke’s Regional Medical Center/Mountain States Tumor Institute, Boise
Treasure Valley Manor, Boise
Walter Knox Memorial Hospital, Emmett
YWCA (Battered Women’s Unit), Boise
Veterans Administration Medical Center, Boise
University/Community Health Sciences Association, Inc.

The University/Community Health Sciences Association, Inc., is a non-profit corporation chartered by the State of Idaho for educational and charitable purposes, and to otherwise serve the University.

The objectives of the Association are to promote optimum health services for the community through excellence in health professional education, to promote the growth and development of the College of Health Science of Boise State University and its constituent educational programs, departments, and activities, and to encourage donations of funds and gifts to assist in carrying out these objectives.

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

M.M. Burkholder, M.D., President
Mr. James A. Goff, Vice President
Donald L. Pape, D.D.S., Secretary
Mrs. Bernice B. Comstock, Treasurer
David M. Barton, M.D.
Mr. Armand L. Bird
R.E. Bullington, Ed.D.
Mr. Robert Conrad
Vctor H. Duke, Ph.D.
Mr. William K. Dunkley
Maria Eschen, R.N., Ph.D.
Mrs. Sybil Fergusson
Mr. John R. Frobenius
Mrs. Clara Hansberger
Mr. Kregg Hanson

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 of Community & Environmental Health
Science Building, Room 110    Telephone (208) 385-3929
Chairman and Associate Professor: Eldon Edmundson; Associate Professor: Long.

Majors offered
Environmental Health
Health Science Studies
Pre-Dietetics

Departmental 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.

The Department of Community and Environmental Health offers Baccalaureate of Science degrees in Environmental Health and in General Health Sciences, and a non-degree program in in Pre-Dietetics.

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

General Health Sciences:
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 Technology school.

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

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

Special Information for Students

Environmental Health
Advisor: Edmundson

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.

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). 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 college to complete the Bachelor of Science requirements. The following curriculum serves as a suggested program for the Freshman and Sophomore years.

Degree requirements

ENVIRONMENTAL HEALTH
Bachelor of Science Degree

1. General Requirements (30 credits):
   - English Composition E 101-102 ........................................ 6
   - Electives (Area I) ........................................................... 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 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 305 ......................................................... 4

Health Sciences (24 credits):
Water Supply and Water Quality Management EH 310 ........ 3
Air Quality Management EH 380 ...................................... 3
Community Environmental Health Management EH 320 .... 3
Public Health Administration H 304 ............................. 3
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 ...................................................... 4
Biochemistry B 423 .................................................... 3
Parasitology B 412 ..................................................... 4
Management & Organizational Theory MG 301 ............... 3
Physical Geology GO 101 ............................................. 3
Statistics M 361 .......................................................... 3
American National Government PO 101 ......................... 3
Invertebrate Inclusion Sciences IS 210 ........... 1
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 ..................................................... 5
Bacteriology B 303 ..................................................... 5
Immunology B 420 .................................................... 3
Physiology Z 401 or 409 ............................................. 4
Health Delivery Systems H 202 ..................................... 3

Health Science Requirements ........................................
Electives ........................................................................

2. Science Electives (6 courses, 22-23 credits)
General Physics PH 101-102 .......................................... 8
Biophysics PH 207 ...................................................... 8
Histology Z 400 .......................................................... 4
Quantitative Analysis with Laboratory C 211-212 ............. 5
**Pathogenic Bacteriology B 310 .................................. 4
Vertebrate Embryology Z 351 ....................................... 3
Parasitology B 412 .................................................... 3
Comparative Anatomy Z 301 ....................................... 4
Physical Chemistry C 321-324 ..................................... 8
Mathematics M 204 .................................................... 5
Organic Chemistry C 318, 320 ..................................... 5

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

3. Health Science Electives (4 courses, 11-13 credits)
Medical Terminology H 101 .......................................... 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 ................................................... 4
Preprofessional Internship H 493 .................................. 2

4. Free Electives (13-16 credits)

ENVIRONMENTAL HEALTH

Recommended program

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>College Chemistry C 131-134</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics M 111, 204</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Electives (Area I)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany B 130</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Zoology Z 130</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Physics PH 101-102</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Technical Writing E 202</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Speech CM 111</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Area I)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Psycholigy P 101</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Sociology SO 101</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Environmental Health Practicum EH 160</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>18</td>
</tr>
</tbody>
</table>

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Chemistry C 318-319</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Electives</td>
<td>5-8</td>
<td></td>
</tr>
<tr>
<td>Health Science Requirements</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Area I)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Area II)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>13-14</td>
<td>16-17</td>
</tr>
</tbody>
</table>

SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacteriology B 303</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Applied and Environmental Microbiology B 415</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Health Science Requirements</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Area I)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Area II)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Entomology Z 305</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>14-15</td>
<td>15-16</td>
</tr>
</tbody>
</table>

HEALTH SCIENCE STUDIES

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>College Chemistry C 131, 132, 133, 134</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics M 111, 204</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Electives (Area I)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>College Chemistry C 131-134</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics M 111, 204</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Electives (Area I)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany B 130</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Zoology Z 130</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Health Delivery Systems H 202</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Area I)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives (Area II)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>18</td>
</tr>
</tbody>
</table>

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Chemistry C 318-320</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>17</td>
</tr>
</tbody>
</table>
College of Health Science

SENIOR YEAR
Bacteriology B 303 ............................................. 5  -
Physiology Z 401 or 409 ....................................  -  4
Science Electives .............................................. 7  3
Health Science Electives .................................... 3  -
Immunology B 420 ............................................. 3  -
Free Electives .................................................. 7  -
PRE-DEIETITICS PROGRAM ................................. 15  17
PRE-DEIETITICS PROGRAM ................................. 15  17
FRESHMAN YEAR
Essentials of Chemistry C 107, 108, 109, 110 .... 4  5
English Composition E 101-102 ............................ 3  3
Human Anatomy & Physiology Z 111-112 ............. 4  4
Psychology P 101 .............................................. 3  -
Sociology SO 101 .............................................. 3  -
Introduction to Art AR 103 .................................. 3  -
Humanities HU 207 or HU 208 .............................  -  3

SOPHOMORE YEAR
Nutrition H 207 ................................................ 3  -
Principles of Food Preparation H 209 .................  -  4
Math M 108 ...................................................... 4  -
Microbiology B 205 .......................................... 4  -
Technical Writing E 202 .................................... 4  -
Cultural Anthropology AN 102 ............................ 3  -
A First Course in Programming M 122 .................. 2  -
Economics EC 201 or 202 .................................. 3  -
Statistics DS 207 .............................................. 3  -
Sociology of the Family SO 340 ......................... 3  -

Course offerings
EH ENVIRONMENTAL HEALTH

Lower Division
EH 160 ENVIRONMENTAL HEALTH PRACTICUM (0-3-1)(F/S). Field observations in public health agencies. Requires 2 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 problems dealing with solid 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 (2-0-3)(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 (1-0-1)(F). Various allied health disciplines and their clinical functions are discussed. Information on basic educational requirements, opportunities and advancement for each discipline of health care delivery. Lectures by allied health faculty and guest speakers from the medical community. Orientation to allied health care in clinical facilities.
H 101 MEDICAL TERMINOLOGY (3-0-3)(F/S). An introduction to Greek and Latin prefixes, roots and suffixes used in medical terminology, as well as in the study of anatomical, physiological and pathological terms according to systems of the body. Recommended as a beginning course for those with little or no background.
H 109 DRUGS: USE AND ABUSE (3-0-3)(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 (2-6-4)(S). Interrelationships of the nutritive value of foods, principles of food preparation, and the human body. Approved techniques of food preparation to retain nutrients and enhance palatability, food safety 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 pathologies 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 280 COMMUNITY HEALTH ADMINISTRATION (3-0-3)(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.

Upper Division
H 300 PATHOPHYSIOLOGY (4-6-4)(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 (3-0-3)(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 pathophysiology to study drugs and their intersystem relationships. PREREQ: H 300; 6-8 credits each Chemistry and Human Anatomy and Physiology; clinical background as a health student or professional.
H 310 METHODS IN CLINICAL LABORATORY SCIENCE (2-3-3)(F/S). Interdisciplinary course in basic laboratory procedures used in a primary care setting. Clinical significance of tests in relation to disease processes is stressed. Lectures/practical clinic lab; emphasis on students 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 (3-0-3)(F). 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 (3-0-3)(S). Introduction to the economics and financing of health care and health care agencies. Odd-numbered years.
H 406 PRINCIPLES OF EDUCATION IN HEALTH SCIENCES (3-0-3)(S). 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 (3-0-2)(S). A study of public health legislation, including the implementation and enforcement of such laws, and specific duties of agencies regarding selected sections of the law. PREREQ: Upper division status or PERM/INST. Odd-numbered years.
H 480 EPIDEMIOLOGY (3-0-3)(S). 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 (1-3-2)(F/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.
Department of Medical Records Science

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

Majors offered

Medical Records Science

Departmental Statement

Medical Records 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 Records Science" on or before March 1 of the year in which the student wishes to enter the second year of the program. The applications will be distributed to students in their 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.

Faculty: Rockne.
Department of Nursing

Science/Nursing Building, Room 107  Telephone (208) 385-3900

Chairman and Professor: Neila Poshek; Professor: Willhite; Associate Professors: Baker, Fountain, Job, Matson, Penner, Taylor, Wade, Wilcox; Assistant Professors: Adornato, Brudenell, Butterfield, Chase, Lynch, Schall; Instructors: Leahy, Ottermess, Peterson, Straub, Wise.

Majors offered

Nursing (2 yr.)
Nursing (4 yr.)

Department Statement

The Boise State University Department of Nursing operates as an integral unit of the total university. Students enrolled in nursing attend classes and socialize with students in various other fields of study on campus.

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 in Nursing Degree.

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.

Special Information for Students

Lower Division Associate Degree

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

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

Philosophy: The associate degree-prepared nurse practices primarily in formally organized health care agencies providing direct care for individuals with identified health problems. Nursing care for patients 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.

Upper Division Baccalaureate Degree

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 who meet admission requirements.

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. Graduates are prepared for first-level positions in community health nursing. The program is approved by the Idaho State Board of Nursing and accredited by the National League for Nursing.

Philosophy: Professional nursing education includes both general education and nursing components. General education components provide knowledge of the Humanities, Social, and Physical Sciences. The curriculum focuses on dynamic states of health as well as illness of individuals, families, and the community, and on designing alternatives in coping with changes in those conditions. Further, the professional nursing curriculum promotes refinement and development of nursing practice through utilization and evaluation of nursing research, as well as by employment of theoretical and empirical knowledge derived from general education. The curriculum facilitates the development of collegiality, collaboration and consumer advocacy.

Professional nursing emphasizes the promotion and restoration of health and the prevention of illness through utilization of the nursing process. This process includes activities of assessment, planning, intervention and evaluation in health care delivery. In applying nursing process, the professional nurse demonstrates the art of clinical judgment— the capacity to think critically as a basis for selection, implementation and evaluation of strategies to meet health care needs of individuals, families, and the community. The professional nurse is prepared to provide health care services ranging from simple to complex for individuals, families, and groups of all ages and in a wide variety of settings. The professional nurse understands the dynamics of small and large groups and utilizes communication skills which facilitate effective functioning.

The current demand for improved health care requires the professionally prepared nurse. Nurses must be able to: (1) accept responsibility and accountability for their own actions; (2) critically analyze and respond to emerging scientific and humanistic advances in knowledge and the potential for implementation in the health care delivery system; and (3) participate in identifying health care trends, predicting health care needs in a changing society, and in developing new nursing roles and strategies for meeting those needs.

Pre-Entrance Advisement: Potential applicants should contact the program office to obtain adviser as far in advance of their application date as is possible. Revision of admission qualifications or application procedures, as well as year-to-year variations in the scheduling of courses, will have implications for the potential student’s academic plans. By establishing early contact with the program advisors, the potential student will be kept advised of such changes so that the student is able to plan more effectively to ensure eligibility for admission by the date which the potential student desires.

The potential student must take the initiative for contacting a program advisor. This is best done immediately following the initial request to the Admissions Office for information about the program. The time when the student is attempting to qualify for admission, the program advisor will provide academic advisement. Candidates for admission who fail to utilize this service, or who apply too late to receive pre-entrance advisement, run the risk of discovering that they have not completely qualified for admission by the date they have chosen.

Department Admission Requirements and Application Procedures

Lower Division Associate Degree

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 (L.P.N.),
   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, Rm. 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 $75.00* 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 $20.00* non-refundable lab fee payable by August 30th of each academic year.

   *Amount subject to change.

Upper division baccalaureate degree

Admission Requirements: To qualify for admission, applicants must:

1. Possess a current license as a registered nurse and secure Idaho licensure prior to enrollment in upper division nursing courses.

2. Have maintained a GPA of 2.75 or better in 37-41 semester credits in general education courses, including the following:
   a. English Composition E 101-102
   b. Microbiology B 205
   c. Nutrition H 207
   d. Behavioral Science (Area II) P 101, SO 101
   e. Humanities (Area I)
   g. Human Anatomy & Physiology Z 111-112

   NOTE: Transfer students with 3 to 4 credits of Microbiology and 2 to 3 credits of Nutrition may be accepted.

3. Have passed the required theoretical and clinical nursing tests (information on these tests is available from the Baccalaureate Program Office).

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

1. Request from the Admissions Office an application to the university (if not previously admitted) and request from the Department of Nursing a special application form for the Baccalaureate Nursing Program.

2. Have completed the following actions by March 1, preceding the fall semester in which enrollment in upper division nursing courses is planned:
   a. Return the completed BSU application to the Admissions Office.
   b. Return the Baccalaureate Nursing Program application to the Department of Nursing.
   c. Submit transcripts from all institutions of higher education which the candidate has attended. It may take 6-8 weeks for transcripts to be processed and mailed so adequate time should be allowed. Graduates of diploma schools of nursing who took college courses in conjunction with their nursing program must submit transcript(s) from college(s) attended. The nursing school transcript, even though it lists such courses, cannot be used as an official record of courses completed in institutions of higher education.
   d. Have taken, or made an appointment to take, the required nursing tests, as described under Item 3, Qualification for Admission.

To qualify for enrollment, the candidate must:

1. Return the form indicating intent to enroll. This form is sent to the candidate when he/she is notified of acceptance in late April or May.

2. Arrange to attend an orientation session scheduled immediately prior to registration for the fall semester. Accepted students will be notified no later than May 31st regarding the time and place of this meeting.

3. Secure malpractice insurance.

4. Have a current Idaho license to practice professional nursing.

5. Show evidence of a negative PPD or chest x-ray (evidence needed each year).

6. Show evidence of rubella immunity (required only at time of enrollment).

7. Have completed all requirements for admission prior to entering the first semester of the nursing program in the fall. This regulation applies to candidates who are given conditional admission, pending completion of requirements.

8. Submit a $20.00* non-refundable laboratory fee payable to Boise State University to cover expendable items used for on-campus lab

127
for the junior year.

*Amount subject to change.

General information regarding admission, application and enrollment:

1. Candidates should apply by the March 1 deadline even if they have course work to complete prior to their anticipated enrollment in the fall semester of that year. If it appears that they will have completed requirements in time for fall enrollment, then a conditional admission will be granted, pending completion of requirements by the time of anticipated enrollment.

2. Late applications will be accepted if vacancies still exist in the class to be admitted. Such applications will be considered in the order in which they are received by the Director of the Baccalaureate Nursing Program.

3. Enrollment is regulated according to available faculty, clinical facilities and other resources. If more fully qualified candidates have applied by March 1 than can be admitted, those candidates will be ranked according to the GPA and admission will be granted in order to those with the higher GPA. Remaining fully qualified applicants will be placed on a waiting list. As vacancies occur in the list of admitted students, the next candidate on the waiting list will be granted admission. Conditionally qualified applicants will not be considered by admission only after all candidates who are fully qualified by March 1 have been admitted.

4. Candidates not required to have had a specified period of work experience; however, they are strongly advised to have had one year of nursing practice within the two-year period immediately preceding anticipated enrollment in the Baccalaureate Nursing Program. General staff nursing practice is recommended for those who have recently obtained licensure or who have not been actively engaged in nursing during the two years immediately preceding anticipated enrollment.

5. Students are expected to provide their own transportation to clinical agencies when enrolled in a nursing course with a clinical practicum.

**Progression and Graduation:** In order to progress through the program and qualify for graduation, students must meet all University requirements for the BS degree as well as the requirements for the nursing major, including required support courses. A GPA of 2.75 or better must be maintained and all nursing and 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. Enrolled students may challenge any upper division nursing course except N 302 and N 402.

Students whose GPA falls below 2.75 or who receive less than a "C" in theory and simulated practicum courses in nursing or in required support courses may be eligible for academic probation. Probation for one semester only will be considered by the faculty if, in their opinion, probation is warranted based upon the individual student's circumstances. Failure to achieve the required grade or GPA by the end of the one probationary semester automatically disqualifies the student from further study in the Baccalaureate Nursing Program. Probation will be granted only once. In cases which require probation for a year because the necessary course is not available in the semester immediately following that in which the academic deficiency was incurred, faculty may grant probation for that period of time; however, the student may be required to delay progression in the nursing curriculum until the deficiency has been removed.

Ordinarily, the full-time student who carries 15-16 credits per semester can anticipate completing the program in two years. Depending upon the availability of courses when needed, attendance at summer school may be necessary in some cases to complete core curriculum requirements in Areas I, II, III as specified by the University.

In order to maintain the educational quality of the program and to protect students from losing credits as a result of changes in curriculum or academic policies, part-time students are subject to some regulations as follows:

1. They must complete degree requirements within four years from the initial enrollment in 300 level nursing courses.

2. They must maintain continuous enrollment in nursing courses for both fall and spring semesters.

3. They must follow the prescribed sequencing of nursing courses for part-time students.

4. All 300 level nursing and required support courses must be completed before enrollment in any 400 level nursing courses.

A waiver of any one of these regulations may be granted, upon petition to the faculty, for appropriate reasons such as, but not restricted to, illness, academic probation, and family emergencies. Faculty advisors will assist students in preparing petitions.

Progression in the program is carefully monitored by faculty advisors. Each student who is admitted to the program is assigned an advisor and is expected to confer with this advisor at least once a semester to evaluate his/her progress in the program and to plan registration for the next semester. Advisors also are available to students for general academic counseling during fall and spring semesters.

The assigned advisor is the first person the student should consult regarding problems relevant to progress in the baccalaureate nursing curriculum. If advisors are unable to help the student resolve a problem, they will recommend the student to another resource person. The advisor and the student share the responsibility for monitoring the student's progression in the program to assure that graduation requirements are met.

Further information can be obtained by writing to: Baccalaureate Program in Nursing, Boise State University, 1910 University Drive, Boise, ID 83725, Phone (208) 383-1768.

**Recommended Programs**

This section contains programs for both full-time and part-time students. Full-time students should be able to complete the program in two years. Students who attend part-time throughout their entire program should complete the curriculum in four academic years and the sequence given for nursing and required support courses must be followed. Students who wish to attend full-time for one year and part-time for another year must follow the required sequence for nursing courses when attending part-time. All 300 level nursing and required support courses must be completed before 400 level nursing courses may be taken.

**LOWER DIVISION ASSOCIATE DEGREE**

Full-Time Nursing Student
(Suggested for those students who do not plan to work part time)

<table>
<thead>
<tr>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST YEAR</td>
<td></td>
</tr>
<tr>
<td>*Essentials of Chemistry C 107-108</td>
<td>4</td>
</tr>
<tr>
<td>*Nutrition H 207</td>
<td>-</td>
</tr>
<tr>
<td>*Human Anatomy &amp; Physiology Z 111-112</td>
<td>4</td>
</tr>
<tr>
<td>*General Psychology P 101</td>
<td>3</td>
</tr>
<tr>
<td>Fundamentals of Nursing N 100-102</td>
<td>6</td>
</tr>
<tr>
<td>*English Composition E 101</td>
<td>-</td>
</tr>
<tr>
<td>-</td>
<td>17</td>
</tr>
<tr>
<td>SECOND YEAR</td>
<td></td>
</tr>
<tr>
<td>Microbiology B 205</td>
<td>4</td>
</tr>
<tr>
<td>English Composition E 102</td>
<td>-</td>
</tr>
<tr>
<td>Introduction to Sociology SO 101</td>
<td>-</td>
</tr>
<tr>
<td>Elective</td>
<td>-</td>
</tr>
<tr>
<td>Nursing Intervention I &amp; II N 200-202</td>
<td>9</td>
</tr>
<tr>
<td>-</td>
<td>16</td>
</tr>
</tbody>
</table>

Part-Time Nursing Student
(Suggested for those students who do not have a strong background in High School Sciences and/or who plan to work part time)

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

128
### Junior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Nursing I N 302</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Professional Interactions N 308</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Professional Interactions N 309</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Health-Illness I N 360</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Health-Illness I N 361</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Pathophysiology H 300</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Core or General Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Family and Group Interactions N 328</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Family-Group Interactions N 329</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Health-Illness II N 362</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Health-Illness II N 363</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Nursing Research N 392</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Applied Pharmacotherapeutics H 306</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area I, II, or III Core Elective</td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing in the Community N 410</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Nursing in the Community N 411</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Health-Illness III N 430</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Health-Illness III N 431</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Professional Nursing II N 402</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Families &amp; Groups Under Stress N 408</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Families &amp; Groups Under Stress N 409</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Health-Illness IV N 432</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Health-Illness IV N 433</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Area I, II, or III Core Elective</td>
<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practicum: Nursing in the Community N 410</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Health-Illness I N 360</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Health-Illness I N 361</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Family &amp; Group Interactions N 328</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Family &amp; Group Interactions N 329</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Health-Illness II N 362</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Health-Illness II N 363</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>1st</th>
<th>2nd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health-Illness III N 430</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Practicum: Health-Illness III N 431</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area I, II, or III Core Elective</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Professional Nursing II N 402</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Health-Illness IV N 432</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Practicum: Health-Illness IV N 433</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Area I, II, or III Core Elective</td>
<td>8</td>
<td>9</td>
</tr>
</tbody>
</table>

Students who want to take more than a part-time schedule but less than a full-time program the first semester of the junior year are advised to take N 308-309, Professional Interactions, in addition to the suggested program above. In such cases, N 360 will be omitted as a co-requisite.

### Course Offerings

#### NURSING

**Lower Division**

- **N 100 FUNDAMENTALS OF NURSING I (3-9-6)(F).** First of four sequential courses. Focus is Man: his 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 is Man: methods of assisting patients/families adapt to stresses of illness and/or surgery. Exploration of concepts which apply to individuals at various points on 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 PLACEMENT STUDENT (1-0-1)(S).** Designed to assist 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 200 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 302 PROFESSIONAL NURSING I (2-0-2)(F).** Theoretical and historical perspectives in nursing. Roles and characteristics of the professional nurse today. Conceptual foundations of professional nursing. Exploration of leadership styles and issues in nursing. Identification of individual professional goals. PREREQ: Admission to BSN program.

- **N 308 PROFESSIONAL INTERACTIONS (2-0-2)(F).** Theoretical base for communication in professional nursing practice, emphasizing assertiveness, therapeutic communication, group process and leadership in groups. PREREQ or COREQ: N 302. COREQ: N 309, 360.

- **N 309 PRACTICUM: PROFESSIONAL INTERACTIONS (0-2-1)(F).** Simulated laboratory for N 308. COREQ: N 309.

- **N 328 FAMILY AND GROUP INTERACTIONS (2-0-2)(S).** Theoretical base for application of nursing process to promote optimal health for individuals, families and groups in community settings. Focus on use of communication base in situational and maturational family crises. PREREQ: N 308, 360. PREREQ or COREQ: N 390. COREQ: N 329, 362.
Department of Preprofessional Studies

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

Dean and Professor: Victor H. Duke

Majors offered

- Pre-Dental
- Pre-Dental Hygiene
- Pre-Medical Studies
- Pre-Occupational Therapy
- Pre-Optometric
- Pre-Pharmacy
- Pre-Physical Therapy
- Pre-Veterinary Medicine Studies
- Medical Technology

Departmental Statement

The Preprofessional Studies Department has responsibility to those students who intend to apply to a professional school in one of the Health Sciences, particularly those who have declared a major in pre-Medicine, pre-Dentistry, pre-Dental Hygiene, pre-Occupational Therapy, pre-Optometry, pre-Pharmacy, pre-Physical Therapy, pre-Veterinary Medicine, pre-Chiropractic, and Medical Technology, etc.

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 who intend to apply to professional schools need to be aware of deadlines established by the professional schools and testing organizations for submitting application materials and taking 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 change from year to year. The student is responsible for ascertaining from the appropriate advisor the specific deadlines and fees which pertain to the application process and admission testing for the particular program.

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

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

Information concerning state-supported tuition programs for qualified Idaho residents who are accepted to schools of medicine, dentistry, veterinary medicine, optometry, occupational therapy and physical therapy is available from the advisor. These programs are WAMI and University of Utah for medical school; IDEP-Creighton-ISU for dental school; WOI for veterinary medicine; WICHE for optometry, occupational and physical therapy.

Degree Requirements and Recommended Programs

PRE-DENTISTRY—BIOLOGY OPTION—BS

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

PRE-MEDICINE—BIOLOGY OPTION—BS

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

Requirements

- General University and Basic Core ........................................... 21
- English Composition E 101-102 ............................................. 6
<table>
<thead>
<tr>
<th>Course</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Suggested Program</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1st</td>
<td>2nd</td>
</tr>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>College Chemistry C 131-134</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics M 111-204</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Area I Core Courses</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>SOPHOMORE YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botany BT 130</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Zoology Z 130</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>*Organic Chemistry C 317-320</td>
<td>5</td>
<td>3-5</td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives (H 202 recommended)**</td>
<td>3</td>
<td>3-6</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>17-19</td>
</tr>
<tr>
<td><strong>JUNIOR YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comparative Anatomy Z 301</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Genetics, with or without Lab B 343, 344</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Vertebrate Embryology Z 400</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>General Physics PH 101-102</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Area I Core Courses</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Area II Core Courses</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>14-15</td>
<td>17</td>
</tr>
<tr>
<td><strong>SENIOR YEAR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Bacteriology B 303</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Vertebrate Histology Z 400</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Physiology Z 401 or 409</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Biochemistry B 431-432</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Area I Core Courses</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>17</td>
</tr>
</tbody>
</table>

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

**PRE-ANATOMY—CHEMISTRY OPTION—BS**

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

**PRE-MEDICINE—CHEMISTRY OPTION—BS**

Science—Nursing Building, Room 309
Telephone (208) 385-3965
Advisor: Dr. Richard C. Banks

**Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>21</th>
</tr>
</thead>
<tbody>
<tr>
<td>General University and Basic Core</td>
<td></td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>6</td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
</tr>
<tr>
<td>Zoology Z 130</td>
<td>5</td>
</tr>
<tr>
<td>Botany BT 130</td>
<td>4</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
</tr>
<tr>
<td>Comparative Anatomy Z 301</td>
<td>4</td>
</tr>
<tr>
<td>Genetics, with or without Lab B 343, 344</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Suggested Program**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>College Chemistry C 131-134</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics M 111-204</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Area I Core Courses</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>4</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany BT 130</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Zoology Z 130</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>*Organic Chemistry C 317-320</td>
<td>5</td>
<td>3-5</td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Electives (H 202 recommended)**</td>
<td>3</td>
<td>3-6</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>17-19</td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>4</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Comparative Anatomy Z 301</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Genetics, with or without Lab B 343, 344</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>Bio or Analytical Chemistry with Lab C 431-432 or 211-212</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>Area I Core Courses</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>16-17</td>
<td>17</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>4</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Chemistry C 321-324</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Instrumental Analysis C 411</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Chemistry Independent Study C 496</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Chemistry Seminar C 498, 499</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Area I Core Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area II Core Course</td>
<td>3</td>
<td>15-6</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td>15-6</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>17-18</td>
</tr>
</tbody>
</table>

*Additional Upper Division credits so that Upper Division credits will total at least 40.
**H 202, Health Delivery Systems, is prerequisite for H 493, Preprofessional Internship.

**PRE-VETERINARY MEDICINE—BS**

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

A shared curriculum agreement exists between the Washington State University School of Veterinary Medicine and the State of Idaho. Under this agreement a number of Idaho residents are each year, guaranteed admission to the WSU School of Veterinary Medicine. For those Idaho residents who plan to pursue a pre-veterinary medicine background are given preference by WSU. The student majoring in pre-veterinary medicine should seek regular counseling from the pre-veterinary academic 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.

The Veterinary Aptitude Test (VAT) is normally to be taken in October preceding 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>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>6</td>
</tr>
<tr>
<td>Area I Requirements</td>
<td>12</td>
</tr>
<tr>
<td>Area II Requirements</td>
<td>12</td>
</tr>
<tr>
<td>Zoology Z 130</td>
<td>5</td>
</tr>
<tr>
<td>Botany BT 130</td>
<td>4</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
</tr>
<tr>
<td>Bacteriology B 303</td>
<td>4</td>
</tr>
<tr>
<td>Genetics B 343-344</td>
<td>3-4</td>
</tr>
<tr>
<td>College Chemistry C 131-134</td>
<td>9</td>
</tr>
<tr>
<td>Organic Chemistry C 317-320</td>
<td>10</td>
</tr>
<tr>
<td>Biochemistry C 431-432</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics M 111-204</td>
<td>10</td>
</tr>
<tr>
<td>General Physics PH 101-102</td>
<td>8</td>
</tr>
<tr>
<td>Applied Animal Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

**Suggested Program**

<table>
<thead>
<tr>
<th></th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>College Chemistry C 131-134</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Mathematics M 111-204</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Area I Core Courses</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td><strong>SOPHOMORE YEAR</strong></td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Botany &amp; Zoology BT 130, Z 130</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Organic Chemistry C 317-320</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Applied Animal Nutrition</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives (H 202 recommended)**</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Area II Core Courses</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td><strong>JUNIOR YEAR</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Genetics B 343-344</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>General Physics PH 101-102</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Area I, II Core Courses</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>17-18</td>
<td>14</td>
</tr>
<tr>
<td><strong>SENIOR YEAR</strong></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Bacteriology B 303</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Biochemistry C 431-432</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
<td>16-17</td>
</tr>
<tr>
<td>Area II Core Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>17-18</td>
</tr>
</tbody>
</table>

*To be taken as correspondence course through Washington State University.

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

### MEDICAL TECHNOLOGY PROGRAM

2268 University Drive Telephone (208) 385-3383

The Medical Technologist performs many routine and specialized tests in the clinical laboratory for the purpose of developing data which may be used by a physician in determining the presence and extent of disease, as well as implications as to the cause of disease. The many tests and procedures performed and supervised by the Medical Technologist in the clinical laboratory include the major areas of hematology, serology and immunology, chemistry, blood banking, microbiology and parasitology, urinalysis, histology, and cytology.

A bachelor of science degree comprised of courses prescribed by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association is a criterion for admission to many professional schools of Medical Technology. The baccalaureate degree in Health Sciences Studies (see Department of Community and Environmental Health) satisfies this requirement.

Individual hospital schools of Medical Technology may or may not require a baccalaureate degree as a criterion for admission. Those which do not 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.

### Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>6</td>
</tr>
<tr>
<td>Area I Core Elective</td>
<td>12</td>
</tr>
<tr>
<td>Area II Core Elective</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics M 111</td>
<td>5</td>
</tr>
<tr>
<td>College Chemistry &amp; Laboratory C 131-134</td>
<td>9</td>
</tr>
<tr>
<td>Organic Chemistry &amp; Laboratory C 317-319</td>
<td>10</td>
</tr>
<tr>
<td>Biochemistry &amp; Laboratory C 431-432</td>
<td>4</td>
</tr>
<tr>
<td>General Zoology Z 130</td>
<td>5</td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
</tr>
<tr>
<td>Bacteriology B 303</td>
<td>5</td>
</tr>
<tr>
<td>Pathogenic Bacteriology B 310</td>
<td>3</td>
</tr>
<tr>
<td>Immunology B 430</td>
<td>3</td>
</tr>
<tr>
<td>General Botany BT 130</td>
<td>3</td>
</tr>
<tr>
<td>Human Physiology Z 401</td>
<td>3</td>
</tr>
<tr>
<td>Health Delivery Systems H 202</td>
<td>8</td>
</tr>
<tr>
<td>Health Science Electives</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
</tbody>
</table>

*Two semesters of Biochemistry C 431-432-333 (7 credits) are recommended.

### Suggested Program

<table>
<thead>
<tr>
<th></th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>College Chemistry C 131-133</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>College Chemistry Laboratory C 132, 134</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics M 111-204</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Health Sciences Electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Area I or II Core Electives</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>17</td>
</tr>
<tr>
<td><strong>SOPHOMORE YEAR</strong></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Organic Chemistry C 317-319</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>General Botany BT 130</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>General Zoology Z 130</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Cell Biology B 301</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Basic Medical Technology MT 201</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Health Sciences Electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electives Area I or II Core</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td><strong>JUNIOR YEAR</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Bacteriology B 303</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Pathogenic Bacteriology B 310</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Immunology B 420</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Biochemistry C 431</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Biochemistry Laboratory C 432</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Electives Area I or II Core</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Health Delivery Systems H 202</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Human Physiology Z 401</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Free Electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>15</td>
</tr>
</tbody>
</table>

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

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

Upon admission to a hospital school affiliated with BSU and approved and accredited by CAHEA, the student may register for and earn an additional 32 credits for Medical Technology Clinical Class and Practice (MT 487-8-9) and apply for a Baccalaureate degree in Medical Technology.

Medical Technology Clinical Class and Practice (MT 487-8-9) 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..........................................2
Serology-Immunology......................................2
Toxicology....................................................1
Clinical Mycology...........................................1
Clinical Correlations Seminar..........................1

Course offerings

MT MEDICAL TECHNOLOGY

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

MT 487 CLINICAL CLASS AND PRACTICE (76 hours per semester—324 hours per semester—8 CR(SJ) (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 accredited by CAHEA.

Non-Degree Programs

PRE-DENTAL HYGIENE

This curriculum is designed for students interested in a professional career in Dental Hygiene. The program leads to a Bachelor of Science degree in Dental Hygiene. The suggested program outlined here is based upon the liberal arts prerequisite courses generally required by a professional school of dental hygiene. Students are advised to see the pre-Dental Hygiene advisor and pattern their curriculum at BSU after that of the specific professional school to which they expect to apply.

<table>
<thead>
<tr>
<th>SEM</th>
<th>1st</th>
<th>2nd</th>
<th>SEM</th>
<th>3rd</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN YEAR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Anatomy &amp; Physiology Z 111-112</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry C 107, 109</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry C 108, 110</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics M 111</td>
<td>5</td>
<td>3</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Introduction to Allied Health H 100</td>
<td>17</td>
<td>15</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>SOPHOMORE YEAR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speech CM 111</td>
<td>3</td>
<td>-</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Zoology Z 130</td>
<td>4</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Sociology SO 101</td>
<td>3</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Psychology P 101</td>
<td>3</td>
<td>-</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Microbiology B 205</td>
<td>-</td>
<td>9</td>
<td>-</td>
<td>9</td>
</tr>
<tr>
<td>Area I Courses</td>
<td>-</td>
<td>9</td>
<td>-</td>
<td>9</td>
</tr>
<tr>
<td>Nutrition H 207</td>
<td>3</td>
<td>-</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

PRE-OCCUPATIONAL THERAPY

2268 University Drive
Advisor: Conrad Colby

Occupational Therapy schools differ considerably in their preprofessional requirements. A minimum of two preprofessional years is required, and more in the case of some schools. A student interested in this career is advised to consult the advisor, determine which of the several schools would be the student’s choice, and pattern the preprofessional curriculum in line with the requirements of the desired schools.

PRE-OPTOMETRY

2268 University Drive
Advisor: Conrad Colby

For students interested in preparing for optometry training, science courses should be designed for science majors and offer laboratory experience. Brief survey courses in the sciences will not prepare a student for the schools and colleges of Optometry.

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

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

Suggested Program

| General Biology or Zoology B 101-102 | 1 or 2 semesters |
| College Chemistry C 131-134 | 2 semesters |
| General Physics PH 101-102 | 2 semesters |
| English E 101-102 | 2 semesters |
| College Mathematics | 2 semesters |

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

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

PRE-PHARMACY

Science-Nursing Building, Room 313
Telephone (208) 385-4377
Advisor: Dr. Robert A. Hibbs

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

Suggested Program

| FRESHMAN YEAR | 1st | 2nd | SEM | 3rd |
| English Composition E 101-102 | 3 | 3 | 3 | 3 |
| Chemistry C 131, 133 | 3 | 3 | 2 | 2 |
| Chemistry Laboratory C 132, 134 | 1 | 2 | 3 | 3 |
| Mathematics M 111 | 5 | - | 5 | - |
| Mathematics M 204 | 4 | - | 5 | - |
| Electives | 4-15 | 3-16 | 3-16 | 3-16 |
| Fundamentals of Speech CM 111 | - | - | - | - |
|  | 15-16 | 16 | 16 | 16 |
| SOPHOMORE YEAR | 1st | 2nd | SEM | 3rd |
| Zoology Z 130 | 5 | - | 3 | - |
| Cell Biology B 301 | 3 | - | 4 | - |
| Organic Chemistry C 317-318 | 3 | - | 4 | - |
| Organic Chemistry Lab C 319-320 | 2 | 2 | 3 | 3 |
| Microbiology B 205 | 4 | - | 4 | - |
| Physics PH 101-102 | 4 | - | 4 | - |
| Electives | 3-4 | 4-16 | 17-18 | 16 |

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

Quantitative Analysis C 211-212 can also be taken as a preprofessional course.
Department of Radiological Sciences

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

**Majors offered**
- Radiologic Technology (3 yr.)
- Radiologic Technology (4 yr.)

**Departmental statement**
To determine the presence of injury or disease, Radiologic Technologists position patients and operate X-ray machines to produce diagnostic films (radiographs). Most technologists work in the Radiology Department of hospitals or with physicians who maintain private practices.

The Radiologic Technology program offers a curriculum utilizing both university and clinical components. This type of 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. 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**
   - See University Admission Policy.
   - Student must see a Radiologic Technology advisor.
2. **Sophomore Year**

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 admission to the sophomore year of the Radiologic Technology Program.

**Application Process:**
1. **Freshman Year**
   - See University Requirements.
2. **Sophomore Year**
   - Applicants are required to have an interview during the spring semester of the freshman year. Contact the department chairman for details.
   - 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 of the year in which the student enters the Sophomore year.
2. Submit $65.00 as prepayment for student name pin, clinical insurance, radiation monitoring badges and markers. This nonrefundable cost is payable by May 10.
3. Submit a $60.00 Lab Fee, per academic year, payable to the department by September 1st of the professional year.

**Promotion and Graduation:**
1. Students must maintain a GPA of at least 2.50 (in professional courses) for the first semester of the professional program. A GPA of less than the required may constitute removal from the program.
2. A grade of less than a C in any professional theory (numbered H, RD or clinical unit must be repeated and raised to a C or higher before continuing in the program.

**Recommended Program**

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

**SOPHOMORE YEAR**

| **Clinical Practicum RD 211, 221** | 1 | 1 |
| **Radiographic Positioning I RD 222** | 4 | - |
| **Radiographic Techniques & Control RD 226, RD 252** | 3 | 3 |
| **Radiographic Physics PH 103, PH 104** | 2 | 3 |
| **Intro to Radiography Clinical Experience RD 234** | 3 | - |
| **Radiation Biology-Protection RD 230** | 2 | - |
| **Area II Core Elective** | 3 | - |
| **Clinical Experience RD 285** | - | 4 |
| **Area I Core Elective** | 3 | - |
| **SUMMER** | - | 5 |
| **Clinical Experience RD 375** | - | 5 |
**JUNIOR YEAR**

- Clinical Practicum RD 311, 321 ........................................ 1 1
- Radiographic Positioning III RD 316 ............................. 4 -
- Special Radiographic Procedures RD 360 ........................ 4 -
- Medical & Surgical Diseases RD 350 ............................. 6 -
- Clinical Experience RD 385, 395 ................................. 6 6
- Seminar in Radiologic Science RD 436 .......................... 2 -
- Radiographic Positioning IV RD 320 .............................. 4 -
- Area I Core Electives .................................................. 3 3

**SUMMER**

- Clinical Experience RD 397 ......................................... 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 at BSU, or have permission from the department chairman.

*Students transferring from other institutions may take this course in their first year at BSU if a similar course has not been available at their previous college.

**SENIOR YEAR**

| Elective (Area II)                  | 3 - |
| Management and Organizational Theory | 3 - |
| MG 301                             | 3 - |
| Area II Core Elective              | 3 - |
| Management of Radiology Service    | 3 3 |
| Imaging Modalities RD 402          | 3 - |
| Selective (Area I)                 | 3 - |
| Organizational Behavior MG 401     | 3 - |
| Interviewing CM 307                | 3 - |
| Health Delivery Systems OR Medical Economics and Finance | 3 - |
| H 405                             | 3 - |
| Principles of Education in Health  | 3 - |
| Sciences H 406                     | 3 - |
| Radiographic Quality Assurance RD 408 | 18 18 |

**Course offerings**

**RD RADIOLOGIC TECHNOLOGY**

**Lower Division**

- 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.
- 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.
- RD 226 RADIOGRAPHIC TECHNIQUE AND CONTROL (3-0-3)(F). Factors that affect the production of x-ray images: i.e., contrast, density, x-ray film, darkroom chemistry and procedures, cassettes, beam filtration, x-ray tube operation. PREREQ: Z 111 and Z 112. COREQ: RD 222.
- RD 230 RADIATION BIOLOGY-PROTECTION (2-0-2)(F). General survey of radiation hazards and the potential consequences to both technologist and patient. The most appropriate means of minimizing the radiation dose will be emphasized. PREREQ: RD major or PERM/INST.
- RD 234 INTRODUCTION TO RADIOGRAPHY CLINICAL EXPERIENCE (1-0-3)(F). Introduces the student to the hospital structure, technical aspects of radiology, and medical ethics, and prepares the students for various professional and patient interactions prior to their hospital experience.
- 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, boney thorax and the spine. PREREQ: RD 222, RD 211. COREQ: RD 221.
- RD 285 RADIOLOGIC TECHNOLOGY CLINICAL PRACTICUM (0-240-4)(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.

**Upper Division**

- RD 311 CLINICAL PRACTICUM (0-3-1)(F). Laboratory demonstration and practice of the radiographic positions discussed in RD 316. COREQ: RD 316.
- 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.
- 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.
- RD 375 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-280-5)(SU). Supervised clinical hospital experience. The student must complete 70% of recently taught radiographic exams plus 50% continued competency exam list. PREREQ: RD 285.
- RD 385 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-350-5)(SU). Supervised clinical hospital experience. The student must complete a minimum 40% of exams involving the skull, 40% exams in special procedures, and 50% continued competency exam list. PREREQ: RD 375.
- RD 395 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-350-5)(SU). Supervised clinical hospital experience. The student must complete a minimum 40% of special procedures and 50% continued competency exam list. Plus rotation in minor affiliates. PREREQ: RD 385.
- RD 397 RADIOLOGIC TECHNOLOGY CLINICAL EXPERIENCE (0-280-5)(SU). Supervised clinical hospital experience. Students rotate through several minor affiliates and complete a minimum 20% of continued competency exam list. PREREQ: RD 395.
- RD 400 MANAGEMENT OF A RADIOLOGY DEPARTMENT (3-0-3)(F). Introduction to the set up and operation of a radiology department including design principles, projection of demands and providing for growth and development. Structural and shielding requirements will be discussed. PREREQ: PERM/INST.
- RD 401 MANAGEMENT OF A RADIOLOGY SERVICE (3-0-3)(S). Applied principles and techniques of management and supervision. Includes departmental administration of records, equipment, personnel and budgets. PREREQ: RD 400, PERM/INST.
- RD 402 IMAGING MODALITIES IN RADIOLOGY (3-0-3)(S). Discussions of various medical imaging modalities including Ultrasonography, C.T., NMR, PET, Digital Radiography, Electronic Imaging and Nuclear Medicine. Theory and operational principles will be examined along with economic impact, purchase and acquisition procedures and use considerations. PREREQ: PERM/INST.
- RD 408 RADIOGRAPHIC QUALITY ASSURANCE (3-0-3)(S). Provide skills required for conducting and managing a radiographic quality assurance program. Includes demonstrations and performances with quality assurance instruments. Principles and techniques of daily photographic quality assurance will be introduced. PREREQ: PERM/INST.

**Department of Respiratory Therapy**

2268 University Drive
Telephone, (208) 385-3383
Chairman and Associate Professor: Conrad Colby; Associate Professor: Ashworth; Instructor: Hopper, Lester.

**Majors offered**

Respiratory Therapy (3 yr.)
Respiratory Therapy (4 yr.)
Departmental Statement

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

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

Department Admission Requirements and Application Procedures

Respiratory Therapy Program

Requirements for Admission:

1. Preprofessional Year
   a. See University Admission Policy.

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

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

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

Application Process:

1. Preprofessional Year
   a. See University Requirements.

2. Professional Program
   a. All students must fill out and return to the Respiratory Therapy Department Office a “Special Programs Application” on or before March 1 of the year in which they plan to attend the professional program.
   b. Applicants may be required to have an interview during the spring semester of the preprofessional year. Contact the department chairman for specific dates.
   c. Applicants will be notified of their status by April 25. Due to the limited number of clinical sites, the program can accept only a limited number of students each year.
   d. After being notified of acceptance to the program, submit $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, RT) or clinical unit must be repeated and raised to a “C” or higher.

Required Program

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

<table>
<thead>
<tr>
<th>Required Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>
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 (2-0-2) (F). Medical gas therapy to include clinical gases, gas mixtures and various equipment. Theory and technique of aerosol and humidification therapy; introduction to infection control and cardiopulmonary resuscitation. PREREQ: PERM/INST.

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

RT 207 RESPIRATORY THERAPY NURSING ARTS (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.

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: ERM/INST.

RT 303 RESPIRATORY THERAPY THEORY III (2-0-2) (F). Theory and clinical application of mechanical ventilator including care and management of artificial airways. PREREQ: PERM/INST.

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

RT 305 RADIOLOGIC STUDIES OF THE RESPIRATORY SYSTEM (1-0-1) (F). Presentation and interpretation of respiratory radiographs. PREREQ: PERM/INST.

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

RT 308 CLINICAL PRACTICUM III (0-24-6) (S). Use of infant ventilators and specialty techniques pertaining to pediatrics. PREREQ: PERM/INST.

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

RT 327 PULMONARY MEDICINE II (3-0-3) (F). In-depth examination of pulmonary diseases, certain cardiac diseases, and the clinical management of these diseases. PREREQ: PERM/INST.

RT 328 CLINICAL PRACTICUM IV (0-24-6) (S). Experience in the hospital with any or all aspects of respiratory therapy. PREREQ: PERM/INST.

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

RT 401 RESPIRATORY THERAPY COLLOQUIUM (3-0-3) (S). Investigation of current topics in health care and Respiratory Therapy management. Field work may be combined with seminars to explore topics such as federal and state legislation, current trends in hospital accreditation and audit procedures, ethics of health care, and the role of the Respiratory Therapist as Manager. PREREQ: PERM/INST.
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 wishes 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 applications for admission become the property of Boise State University. Under no circumstances will they be duplicated except for University advisement, nor the original returned to the applicant or forwarded to any agency or other college or university.

**Admission to the Graduate College**

A student may be admitted to the Graduate College at Boise State University when the following admissions criteria have been met:

1. The applicant has earned a Bachelor degree from an accredited...
Graduate College

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 subsection “Challenging Courses, Granting Credit by Examination” apply to graduate courses. In particular, the decision to allow or not 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 applied.

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 examinations 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 filling a new Program Development Form showing the changes from the previous form.

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

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

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

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

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

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

Final Examination Requirements: The requirements of a final examination, written, oral, or both, in any non-thesis non-project program 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 three credits earned with a grade of P will be allowed toward the credit requirements for a Master's degree at Boise State University. Master's programs at Boise State University may include directed research credits, at the discretion of the graduate student's supervising committee or professor, through a limit of three 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 graduate or previous work experience. Deficiencies in these areas will be made up outside of the required curriculum. A student may be required to remove other deficiencies related to specified areas of emphasis in the MPA program, as determined by the Inter-University Committee.

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

4. Submission of a brief statement by the applicant indicating career objections 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
   - State, Local Government PO 102
   - Introduction to Public Administration PO 303
   - 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 Graduate Degree Program

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

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

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

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

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

2. At least one course from each of two 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 level of government are to be assigned as public service interns. 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 offerings

Designated Core Area

(Note: Selection of courses is to be made in consultation with the student’s major professor in the preparation of a MPA program development plan for each individual student.)

Administrative Theory, Organization, and Behavior: Organization Theory & Bureaucratic Structure PO 487G.


Public Policy and Policy Analysis: Public Policy Formulation & Implementation PO 520.

Administrative Law: Administrative Law PO 467G.

The Executive & the Administrative Process: The Role of the Executive in Policy Making PO 530.

Intergovernmental Relations: Intergovernmental Relations PO 469G.

Community & Regional Planning: (No course offering yet provided at BSU)

Comparative Public Administration & Planning Systems: Comparative Public Administration PO 465G.

Optional "Areas of Emphasis"

(Note: Some of the courses provided in designated areas of emphasis are also provided in designated core areas as shown above. In such cases, a course may satisfy a general core area requirement or a specific area of emphasis requirement in the MPA program but not both.)

General Public Administration: This area of emphasis is provided to accommodate those students desiring preparation in public administration as a "generalist" rather than a "specialist" in a particular area of specialization. At BSU the student may select the remaining 12 credit hours of coursework from the courses listed below:


Any of the following courses, identified as "selected topics," which will be offered as staff availability permits, may be selected also to satisfy the General Public Administration area of emphasis: Administrative Theory, Organization & Behavior PO 580, Public Management Techniques PO 581, Public Policy & Policy Analysis PO 582, Administrative Law PO 583, The Executive & the Administrative Process PO 584, Intergovernmental Relations PO 585, Community & Regional Planning PO 586, Comparative Public Administration and Planning Systems PO 587.

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

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


Public Health Administration: (Planned, but no course offering yet provided at BSU in the MPA program.)

Environmental and Natural Resources Administration: (No course offering yet provided at BSU in the MPA program.)

Local Government Administration: (Planned for future implementation as an area of emphasis at BSU.)

Public Finance, Budgeting, and Administrative Management: (Planned for future implementation as an area of emphasis at BSU.)


Course offerings

PO POLITICAL SCIENCE COURSES

Graduate

PO 465G COMPARATIVE PUBLIC ADMINISTRATION (3-0-3)(F/S). Systematic examination and comparison of various models and theories of administrative systems. International and International studies. (Students enrolled in this course for graduate level credit will be assigned special requirements on preparation.)

PREREQ: PO 303.

PO 467G ADMINISTRATIVE LAW (3-0-3)(F/S). Sources of power and duties of administrative agencies, rules and regulations made by agencies through investigation and hearings, judicial decisions and precedents relating to administrative activities. (Student enrolling in this course for graduate level credit will be assigned special requirements on preparation.)

PREREQ: PO 303.

PO 469G ORGANIZATIONAL THEORY AND BUREAUCRATIC STRUCTURES (3-0-3)(F/S). Socio-political analysis of theories and concepts of complex social organizations, their application to public administration and the interrelationship between political science and sociological organizational theory. (Students enrolling in this course for graduate level credit will be assigned special requirements on preparation.)

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 utilized 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
- PO 588 SYSTEMS

- PO 590 PUBLIC SERVICE INTERNSHIP (variable credit). Arranged as field experience for those students with no prior experience in governmental or other organizational assignments. Such internships will be established and arrangements made for placement through the chairman of department of political science.
- PO 593 THESIS (3 credits/semester). Selection of approved topic in public administration for major preparation and defense through consultation with major advisor.
- PO 595 READING AND CONFERENCE (1-2 credits). Directed reading on selected materials in public administration and discussion of these materials, as arranged and approved through major advisor.
- PO 596 DIRECTED RESEARCH (1-3 credits). Special projects undertaken by the MPA student as advanced tutorial study in specialized areas according to the needs and interests of an individual student. Course embodies research, discussions of the subject matter and procedures with a designated professor and a documentary paper covering the subject of the independent study.
- PO 598 CONFERENCE OR WORKSHOP (1 credit). Conferences or workshops covering various topics in public administration to 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**

- CR 510 SPECIAL PROBLEMS IN CORRECTIONAL TREATMENT (3-0-3) (F/S). Analysis of contemporary problems in the correctional programs of American society.
- CR 511 SPECIAL PROBLEMS OF THE JUVENILE AND YOUTHFUL OFFENDER (3-0-3) (F/S). Examination of current processes in juvenile justice, rehabilitation programs, probation and utilization of community-based resources. Emphasis will be placed on preventive rehabilitative measures at the local level.
- CR 580 SELECTED TOPICS—CRIMINAL JUSTICE ADMINISTRATION (3-0-3). 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 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 310.

**SO SOCIOLOGY COURSES**

- 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.

---

**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 Junior/Senior GPA plus GMAT score must equal 1000 minimum or 2) 200 x overall GPA plus GMAT score must equal 1000 minimum.
3. For foreign students, in addition to the above formulae minimum, a score of 525 on the TOEFL, or its equivalent, is necessary.

**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.

MBA—Required Core Courses

GB 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 and 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.

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, formulating budgeting, and implementation of strategies, plans, programs. Consumer, industrial, institutional and international markets included.

FI 530 FINANCIAL MANAGEMENT (3-0-3)(F/S). Financial planning and control, capital budgeting, risk analysis, cost of capital and the capital asset pricing model, capital structure and dividend policy, long-term financing requirements, mergers and acquisitions, social responsibility of financial executives, and multinational problems.

AC 532 ACCOUNTING—PLANNING AND CONTROL (3-0-3)(F/S). 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 analysis for pricing, and capital budgeting. Overall objective is an understanding of techniques of cost planning and control.

MG 540 ORGANIZATION THEORY (3-0-3)(F/S). Determinants and effects of organizational design, with history and current trends in organizations. Methods of analyzing appropriate structure are discussed. Organizational behavior within the structural framework is explored with special attention to group dynamics, power, leadership and influence.

EC 560 ECONOMICS OF PUBLIC POLICY (3-0-3)(F/S). Contribution of economic analysis to the justification, design and implementation of economic policy. The issues surrounding the need for public policy in a private property, market economy and the benefits and costs associated with government intervention. The relationships between the goals and the instruments of U.S. economic policy. PREREQ: EC 201, 202.

GB 579 BUSINESS POLICY FORMULATIONS (3-0-3)(F/S). Utilizes complex business cases, business simulation and specialized functional knowledge to determine business decisions, strategy and policies including the use of quantitative methods for allocation and flow of all goods and services in organizations. Designed as a capstone for the last semester of the program.

*MBA—Elective Courses

AS 512 COMMUNICATION TECHNIQUES FOR MANAGERS (3-0-3)(Intermit- tent). Analysis of management communication requirements in business. Development of interpersonal skills and analytical ability through evaluation of research reports, and case studies. Writing and speaking skills emphasized through written reports, oral presentations and small group activities.

IS 542 COMPUTER APPLICATIONS FOR MANAGEMENT (3-0-3)(F). Study of the impact of the computer on managers and on the environment in which managers work. Topics include data-base, MIS, the management decision process, and computer tools that can be used by managers in the decision process. Selected computer applications are explored.

MG 541 HUMAN RESOURCE MANAGEMENT (3-0-3)(F/S). Effective management of human resources including discussion of the supervisory processes conducive to reducing labor costs and increasing productivity. Special attention is given the human, organizational, and environmental constraints which limit managerial actions. Techniques for effectively functioning within these constraints.

MK 520 MARKETING PROBLEMS (3-0-3)(Intermittent). Analytical approach to marketing problem solving and decision making. Covers market definition, personal selling, advertising and sales promotion, distribution channels, strategy formulation, product development procedures, and customer services. Case study approach is utilized.

SELECTED TOPICS: Contemporary topics courses offered intermittently.

AC 580 SELECTED TOPICS - Accounting (3-0-3)
IS 581 SELECTED TOPICS - Information Systems (3-0-3)
EC 582 SELECTED TOPICS - Economics (3-0-3)
FI 583 SELECTED TOPICS - Finance (3-0-3)
MG 584 SELECTED TOPICS - Industrial Psychology (3-0-3)
MG 585 SELECTED TOPICS - Management (3-0-3)
MK 586 SELECTED TOPICS - Marketing (3-0-3)

S96 DIRECTED RESEARCH (1-3 credits). Involves special projects undertaken by the student, consisting of individual work suited to the needs and interests of the student. The course embodies research, discussions of the subject matter and procedures with a designated professor, and a documented paper covering the subject.

Undergraduate "G" Courses

Two may be taken for graduate credit if cleared by Graduate Program Coordinator.

AC 440G ACCOUNTING THEORY (3-0-3)(S). A specialized course dealing with the evolution of accounting thought and the contemporary approach to asset valuation, income determination and the measurement process in accounting.

DS 408G OPERATIONS MANAGEMENT (3-0-3)(F).Quantitative tools needed in the operations and production management fields for effective decision making. The nature of interactions between the operations manager and the other business systems will be developed. Typical topics include: process design, facilities layout and location, and aggregate planning. PREREQ: DS 208, 366, MG 301.

DS 409G DECISION ANALYSIS (3-0-3)(S). Decisions analysis tools such as probability assessment, utility theory, certainty models, uncertainty models, and Bayesian statistical inference. Emphasis will be on presenting the tools in actual business applications. PREREQ: DS 208, MG 301.

EC 421G-422G ECONOMETRICS (3-0-3)(F/S). Application of mathematics and statistics to the study of economics. Designed to acquaint the student with the quantitative tools used to verify theory and to forecast economic activity. PREREQ: M 106 or equivalent and PERM/INST.

FI 417G MANAGEMENT OF FINANCIAL INSTITUTIONS (3-0-3)(F). Decision processes in the management of financial institutions. Institutions include banks, thrifts, insurance companies, investment firms, mortgage banking firms, finance companies and organizations involved in international finance. PREREQ: FI 303, EC 301.

FI 450G INVESTMENT MANAGEMENT (3-0-3)(F/S). Strategies of investing in stocks, bonds, commodities and stock options. Topics include risk-return relationships of various investments; efficient market hypothesis and its implications for the individual investor, portfolio theory and the capital asset pricing model. PREREQ: FI 303, DS 208 and FI 250.

GB 441G GOVERNMENT AND BUSINESS (3-0-3)(S). Intensive study of student research into the scope of government control and regulation of business. Specific major statutes and their implementing rules and regulations are researched and analyzed as well as selected federal and state regulatory agencies. PREREQ: GB 202.

MK 415G MARKETING RESEARCH (3-0-3)(F/S). Theory and use of research for marketing decisions. Experience in formal research methodology by planning and conducting an actual research project.

*Student selects either DS 512 or DS 514.
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 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 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 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 their 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, Music.

Graduate Core: Art, Business Education, Earth Science, English, History, Mathematics and Music emphases:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 570 Graduate Core-Issues in Education</td>
<td>3</td>
</tr>
<tr>
<td>TE 563 Conflicting Values in Education</td>
<td>1</td>
</tr>
<tr>
<td>Elective Courses (Select 2 from the following)</td>
<td></td>
</tr>
<tr>
<td>TE 564</td>
<td>1</td>
</tr>
<tr>
<td>TE 565</td>
<td>1</td>
</tr>
<tr>
<td>TE 566</td>
<td>1</td>
</tr>
<tr>
<td>TE 568</td>
<td>1</td>
</tr>
<tr>
<td>TE 569</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>6</td>
</tr>
</tbody>
</table>

Additional credits to the above will be determined by the respective departments.

Required Courses:
1. Graduate Core

Option requirements

The Education Graduate Program provides two options for those selecting one of the following emphases: Curriculum and Instruction, Early Childhood, Reading or Special Education: Option I Thesis/Project and Option II Written Comprehensive Examination.

**OPTION I**
(Thesis/Project)

| Required of all candidates—Core Program | 9 |
| Required of all candidates—Fundamentals of Educational Research for Teachers TE 551 | 1 |
| Required of all candidates—Thesis-Project | 3 |
| Selected Electives and/or Specific Requirements | 15 |

A Thesis/Project, as mutually agreed upon by the Option I candidate and the committee, is required of the candidate. 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)

| Required of all candidates—Core Program | 9 |
| Required of all candidates—One of the following | 1-3 |
| Fundamentals of Educ Research for Teachers TE 551 | 1 |
| Interpreting Educational Research TE 565 | 1 |
| Selected Electives and/or Specific Requirements | 21-21 |

(Thesis/Project not required)

Required of all candidates—A comprehensive written examination 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.

Graduate Core: Curriculum and Instruction, Reading, Special Education and Early Childhood Education:

| Graduate Core - Issues in Education TE 570 | 3 |
| Graduate Core Directed Writing TE 571 | 1 |
| Conflicting Values in Education TE 563 | 1 |
| Elective courses (Select 2 from the following) |         |
| Creative Teaching-Secondary School TE 564 | 1 |
| Interpreting Educational Research TE 565 | 1 |
| Learning Theory and Classroom Instr TE 566 | 1 |
| Techniques of Classroom Management TE 568 | 1 |
| Testing and Grading TE 569 | 1 |
| Creative Teaching in Elementary School TE 573 | 1 |

**TOTAL CREDITS**
9

Curriculum and Instruction

1. Graduate Core
2. Curriculum Planning and Implementation TE 581
3. Analysis and Improvement of Instruction TE 582
4. Content area courses
5. Elective options (choose I or II, below)

**I. Thesis-Project Option**

- Fundamentals of Educ Research for Teachers TE 551
- Thesis-Project TE 591-593

**II. Comprehensive Written Examination Option**

Either

- Fundamentals of Educ Research for Teachers TE 551
- Electives

Or

- Interpreting Educational Research (part of core)
- Electives

**TOTAL CREDITS**
33

Early Childhood Emphasis

Required Courses:

1. Graduate Core

146
2. Childhood Education—Research & Review TE 543 ........................ 3
   Advancing, Physical and Intellectual Competencies in Early Childhood Education
   ........................................ 3

Selected Electives (6):
Creativity in Early Childhood Education TE 545 ........................ 3
Diagnosis & Evaluation in Early Childhood Educ TE 546 ............ 3
Language Acquisition & Develop in Early Child Educ TE 547 .... 3
Program Development in Early Child Educ TE 548 .................... 3

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

II. Comprehensive Written Examination Option
   Either
   Fundamentals of Educ Research for Teach TE 551 ................ 3
   Or
   Interpreting Educational Research TE 565 (part of core) ....... 1-3
   Open Electives .................................................. 3-11
   Total Credits ..................................................... 33

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
5. Counseling and Consulting in the Elementary and Special Classroom P 501 ................. 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 ............................ 3

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

Required Courses

Graduate Core ............................................................ 9
Behavior Intervention Techniques TE 450G ............................... 3
Development of Skills of Teaching Moderately/Severely Handicapped TE 517 ..................... 3
Practicum in Special Education TE 590 .................................. 4
Counseling and Consulting in the Elementary and Special Classroom ......................... 3

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) TE 565 ................. 1
   Electives ................................................................ 9
   Total Credits ....................................................... 34

For Those Primarily Responsible for Secondary School Instruction

I. 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
3. Development of Skills of Teaching Moderately/Severely Handicapped TE 517 ............... 3
4. Practicum in Special Education TE 590 ................................ 4
5. Remediation of Reading Problems TE 503 ............................ 3
6. Electives
   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) TE 565 ................. 1
   Electives ................................................................ 9
   Total Credits ....................................................... 34

Reading

For Those Primarily Responsible for Elementary School Instruction

1. Graduate Core ........................................................ 9
2. Survey of Reading Instruction TE 401 ................................. 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)

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 (given as part of 9-credit core) 9 or 12
   Total Credits ....................................................... 33

Reading

For Those Primarily Responsible for Secondary School Instruction

1. Graduate Core ........................................................ 9
2. Diagnosis of Reading Problems TE 502 ............................... 3
3. Remediation of Reading Problems TE 503 ............................. 3
4. Seminar in Reading TE 504 ............................................ 3
5. Relating Reading Processes to Sec School Subjects TE 507 ......... 3
6. Teaching Reading in the Secondary Schools TE 508 ............... 3
## Course offerings

### P - PHYSICAL EDUCATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 521</td>
<td>ELEMENTARY PHYSICAL EDUCATION ACTIVITIES (3-0-3)</td>
<td>SU</td>
<td>Alternate years. 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.</td>
<td></td>
</tr>
<tr>
<td>PE 594</td>
<td>PHYSICAL EDUCATION IN SPECIAL EDUCATION (2-0-2)</td>
<td>SU</td>
<td>The course is designed to allow students to work with the special education teacher to develop skills and techniques in the areas of remediation of physical disabilities. Emphasis is placed on the selection and use of appropriate materials and equipment.</td>
<td></td>
</tr>
<tr>
<td>P 303</td>
<td>COUNSELING AND CONSULTING IN THE SPECIAL CLASSROOM (3-0-3)</td>
<td>SC, SU</td>
<td>The practice of processes effective in bringing about change in inappropriate behaviors. Counseling and consultative processes fundamental in serving the several areas of the exceptional child are also practiced. Emphasis is placed on the psychological processes important to the client and the counseling relationship.</td>
<td></td>
</tr>
<tr>
<td>P 504</td>
<td>ANALYSIS OF THE INDIVIDUAL (3-0-3)</td>
<td>SC</td>
<td>A study of techniques used in analyzing the individual with emphasis on the elementary level. The course includes observational methods, recording behavior, behavioral analysis, interviewing and use of test information.</td>
<td></td>
</tr>
<tr>
<td>P 505</td>
<td>PERSONALITY DEVELOPMENT (3-0-3)</td>
<td>Summer</td>
<td>Critical consideration of the main personality theories, particularly those which emphasize current concepts of personality development at different age levels.</td>
<td></td>
</tr>
<tr>
<td>TE 501</td>
<td>TEACHING SKILLS FOR REMEDIATION OF LEARNING DISABLED STUDENTS (3-0-3)</td>
<td></td>
<td>An advanced course in developing skills and techniques in the remediation of learning disabilities. Emphasis is placed on the selection and use of appropriate materials and equipment.</td>
<td></td>
</tr>
<tr>
<td>TE 502</td>
<td>DIAGNOSIS OF READING PROBLEMS (3-0-3)</td>
<td></td>
<td>The role of the special reading teacher and his type of screening device is developed. Various standardized and informal reading tests are put into practice by working with a child in the Reading Center.</td>
<td></td>
</tr>
<tr>
<td>TE 503</td>
<td>REMEDIATION OF READING PROBLEMS (DIRECTED EXPERIENCES IN THE READING CENTER) (3-0-3)</td>
<td>SU</td>
<td>Remediation approaches and techniques for disabled readers are emphasized. Training is fostered by tutoring a child under supervision in the Reading Center.</td>
<td></td>
</tr>
<tr>
<td>TE 504</td>
<td>SEMINAR IN READING EDUCATION (3-0-3)</td>
<td></td>
<td>The significant research concerning all phases of reading is abstracted and discussed in small group settings. Instruction in how to read reading research is included. Instruction in reading research is developed.</td>
<td></td>
</tr>
<tr>
<td>TE 505</td>
<td>INDIVIDUAL TESTS &amp; MEASUREMENT (3-0-3)</td>
<td></td>
<td>An intensive investigation is pursued in the area of measurement theory followed by practical applications in individual testing and student diagnosis.</td>
<td></td>
</tr>
<tr>
<td>TE 507</td>
<td>RELATING READING PROCESS TO SECONDARY SCHOOL SUBJECTS (3-0-3)</td>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>TE 508</td>
<td>TEACHING READING IN THE SECONDARY SCHOOL (3-0-3)</td>
<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
intellectual competence of K-3 children. Areas of emphasis will be physical, creativity, cognitive and language development. Odd numbered years.

TE 545 CREATIVITY IN EARLY CHILDHOOD EDUCATION (3-0-3)(F). A course for early childhood teachers seeking to explore factors associated with creativity, establishing creative learning environments, and techniques and strategies enhancing creative and productive expression in the classroom. Emphasis is placed on designing techniques for creative teaching and on evaluating growth in creativity of children.

TE 546 DIAGNOSIS AND EVALUATION IN EARLY CHILDHOOD EDUCATION (3-0-3)(S). Literature review on various tests and assessments for the young child. Students will pursue an area of interest to them and conduct experiences or give established tests to gain knowledge and understanding of that area on how children learn. Odd numbered years.

TE 547 LANGUAGE ACQUISITION AND DEVELOPMENT IN EARLY CHILDHOOD EDUCATION (3-0-3)(F). To acquaint the student with the various stages of the process of acquiring spoken and written language. Looks at approaches to facilitate language development in children of standard and non-standard English speaking backgrounds. Discuss factors which can interfere with or promote the development of language. Odd numbered years.

TE 548 PROGRAM DEVELOPMENT IN EARLY CHILDHOOD EDUCATION (3-0-3)(F). This is an advanced course in education planning to give the student theoretical and practical experiences relevant to program design, facilities, staff and administration of early childhood programs. The student will design materials and methods to help the child increase his knowledge of things in his world. Even numbered years.

TE 551 FUNDAMENTALS OF EDUCATIONAL RESEARCH FOR TEACHERS (3-0-3)(F). 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 (3-0-3)(S). A course designed to improve the supervision skills of elementary/secondary cooperating teachers and other supervisory personnel. Emphasis will be placed on a variety of observation and evaluation strategies designed to improve instruction.

TE 559 VALUES AND IDEOLOGIES IN EDUCATION (3-0-3)(S). 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 (1-0-1)(SU). Students will explore ideological positions which have affected educational programs and policies. They will be asked to carefully consider their own values and analyze how these positions affect their modes of classroom operation. PREREQ: Graduate status. COREQ: TE 570, 571.

TE 564 CREATIVE TEACHING - SECONDARY SCHOOLS (1-0-1)(SU). The course will explore various approaches to classroom teaching methodology and atmosphere which are innovative and creative.

TE 565 INTERPRETING EDUCATIONAL RESEARCH (1-0-1)(SU). This course will prepare students to read, understand, and critically analyze educational research in their own fields. It includes basic research terminology, strengths and weaknesses in research design, and interpretation of research results. COREQ: TE 570, 571.

TE 566 LEARNING THEORY AND CLASSROOM INSTRUCTION (1-0-1)(SU). A graduate level course designed to provide an introduction to current learning theories and how these in turn affect classroom instruction, textbook development, and curriculum trends.

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

TE 569 TESTING AND GRADING (1-0-1)(SU). This course will include an introduction to the theories and fallacies of testing and grading. Problems and methods of constructing teacher-made tests will be included, with practice in designing better tests and systems of grading. COREQ: TE 570, 571.

TE 570 GRADUATE CORE ISSUES IN EDUCATION (3-0-3)(SU). This course is part of the graduate education core. The content of this course varies, depending upon the current educational issues, but does always include readings, large group presentations, and small group discussions over philosophical, psychological, and sociological aspects of education.

TE 571 GRADUATE CORE DIRECTED WRITING (3-3-3)(SU). This course is part of the graduate education core. Included in this course is a series of classes designed to familiarize students with elements of writing style and library research. Students will select a topic and write a formal paper on an issue raised in core. COREQ: TE 570.

TE 573 CREATIVE TEACHING - ELEMENTARY SCHOOL (1-0-1)(SU). An exploration into the meaning of creative teaching and learning. Emphasis on establishing environments which foster creativity and strategies which encourage creative thinking and behavior. Special emphasis on designing practical classroom techniques for the teacher's classroom and evaluating creative growth of children.

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

TE 582 ANALYSIS AND IMPROVEMENT OF INSTRUCTION (3-0-3)(S). Techniques will be taught to help teachers assess their strengths and weaknesses and implement plans for self-improvement. Practice will be provided in using tools of analysis, which may include content analysis, Flander's Interaction Analysis System, student performance, and nonverbal behavior. Students will be required to develop and implement plans for improving the quality of instruction in their classrooms.

TE 590 PRACTICUM (Variable credits). This course is designed to provide laboratory experiences that allow for the application of methodology, strategies, teaching skills and research related to the specific needs of the student. Arrangement prior to enrollment must be made with the instructor. Required for teaching exceptional students.

TE 591 PROJECT (0-12-6).

TE 593 THESIS (0-12-6).

Master of Arts in Education

Art Emphasis

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.

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.

Program areas of study are as follows:

a. Required Courses:

   - Art Appreciation in the Educational Program AR 501 ............ 3
   - Special Methods: Curric & Develop in Art Educ AR 551 ......... 3
   - Project AR 591 ............................................. 6
      Or
   - Thesis (or additional hours) AR 593 ............................ 6
   - Education Core courses TE 570 ................................. 6
   - Studio or Content; Six (6) credits in the studio. Studio concentration and emphasis will be determined by the student and his committee.
   - Electives; The remainder of the student's work may be elected in relation to his background, interests, and professional objectives in consultation with his major advisor and committee.

Course offerings

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: Graduation or PERM/INST.

AR 521 TEACHING THROUGH EXPERIMENTAL ART MEDIA (0-6-2)(SU). (Previously approved for Elementary Master's Degree). Varied and unusual experimental art media to be used in conjunction with individual teaching techniques. Students will have the opportunity to solve procedural problems and adapt art media to teaching experiences. Some outside reading will be required, as well as written paper. PREREQ: Graduate standing. Summer only by request.

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

AR 551 SPECIAL METHODS: CURRICULUM DEVELOPMENT IN ART EDUCATION (3-0-3)(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 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 586 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.

A scholarly paper embodying results of original research which are used to substantiate a specific view.

Three written reports directed toward the student's particular area of study.

A curricular proposal in written form which could be considered for implementation in the schools.

A one-person art show with a faculty review.

A submitted portfolio of work with a faculty review.

PREREQ: Graduate status.

AR 598 SEMINAR IN ART (3-0-3)(S)(Previously approved for Elementary Master's Degree). Upon selection of an approved topic, the student will research it thoroughly, present an annotated bibliography, and present an oral report of the topic, utilizing visual material in his presentation. The student will then present a research paper concerning his topic. PREREQ: Graduate standing.

C - CHEMISTRY

C 401G ADVANCED INORGANIC CHEMISTRY (3-0-3)(F). Quantum mechanical overview of atomic and molecular structure, bonding in ionic, covalent, and complex ions, nonaqueous solutions, and selected properties of elements of the periodic table and organic compounds. PREREQ: Physical Chemistry C 322 or PERM/INST.


C 431G INTRODUCTION TO BIOCHEMISTRY (3-0-3)(F). A study of the chemistry of biologically important compounds, and an introduction to metabolism. PREREQ: C 318.

C 432G BIOCHEMISTRY LABORATORY (0-3-1)(S). Identification, isolation, and reaction of biologically important compounds. PREREQ: C 431 or concurrent enrollment.

C 433G BIOCHEMISTRY (3-0-3)(S). The function of biological compounds, including intermediary metabolism and synthesis of proteins, cellular control mechanisms of these processes are integrated into the material studies. PREREQ: C 431.

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.

Master of Arts in Education

Business Education Emphasis

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:

- ordinarily show eligibility for certification by the State of Idaho (or any other state), and
- have completed the following prerequisite courses or their equivalent:
  - Principles of Accounting AC 205, 206
  - Principles of Economics EC 201, 202
  - Legal Environment of Business GB 202
  - Intro Information Science IS 210
  - Princ of Marketing MK 301

Program Requirements: A maximum of 14 credit hours may be taken from the College of Business courses (excluding BE courses). 

Graduate Core Courses

Business Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Education</td>
<td>6</td>
</tr>
<tr>
<td>BE 511 Graduate Study in Business Education (required)</td>
<td>3</td>
</tr>
<tr>
<td>BE 520 Curr and Instr in Shorthand, Transcrpt &amp; Off Proc</td>
<td>3</td>
</tr>
<tr>
<td>BE 530 Curr and Instr in Typewriting, Bkpg,Acct &amp; DP</td>
<td>3</td>
</tr>
<tr>
<td>BE 540 Curr and Instr in Basic Business and Economics</td>
<td>3</td>
</tr>
<tr>
<td>BE 571 Organization and Supervision of Business Education</td>
<td>3</td>
</tr>
<tr>
<td>BE 596 Directed Research</td>
<td>variable credit</td>
</tr>
<tr>
<td>BE 599 Workshop in Business Education</td>
<td>1-3</td>
</tr>
<tr>
<td>AS 501 Office Systems and Procedures</td>
<td>3</td>
</tr>
<tr>
<td>BE 441C Principles and Organization of Voc Ed Programs</td>
<td>3</td>
</tr>
<tr>
<td>BE 443C Admin and Coord of Cooperative Programs</td>
<td>3</td>
</tr>
<tr>
<td>BE 597 Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>Business Administration</td>
<td>Minimum of 6 credits Chosen from MBA courses and/or &quot;G&quot; courses offered by Departments of Accounting, Economics, Information and Decision Sciences and Finance, Management, Marketing and Administrative Services, and Mathematics.</td>
</tr>
<tr>
<td>Free Electives</td>
<td>9</td>
</tr>
<tr>
<td>Option of:</td>
<td></td>
</tr>
<tr>
<td>Thesis—BE 593</td>
<td>3-6</td>
</tr>
<tr>
<td>Project—BE 591</td>
<td>3-6</td>
</tr>
<tr>
<td>Additional coursework</td>
<td>3-6</td>
</tr>
</tbody>
</table>

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

Course offerings

Required Courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TE 570 Graduate Core Courses</td>
<td>6</td>
</tr>
<tr>
<td>Graduate Study in Business Education</td>
<td></td>
</tr>
<tr>
<td>BE 593 Thesis or BE 591 Project</td>
<td>3-6</td>
</tr>
<tr>
<td>The Department recommends a thesis or project. However, the option of additional hours in Business Education is available upon approval of the Committee Chairperson.</td>
<td></td>
</tr>
</tbody>
</table>
Elective Courses:
Additional courses as selected by the student and his graduate committee to meet program requirements.

ADDITIONAL INFORMATION
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.

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
MK 520 Marketing Problems
AC 532 Accounting-planning and Control
MG 541 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

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.

BE 596 DIRECTED RESEARCH (variable credits). Opportunity for the student to pursue a topic of interest on an individual basis. PREREQ: Graduate Status and PERM/INST.

BE 599 WORKSHOP IN BUSINESS EDUCATION (1-3 credits). Intensive study of a selected topic in business education. May be repeated for a maximum of 3 credits.

OA 501 OFFICE SYSTEMS AND PROCEDURES (3-0-3). A study of advanced systems and procedures currently in use in business offices. Automated office procedures, word processing, cost analysis and control, personnel procedures, systems analysis and flow charting, work flow, supervisory techniques, and responsibilities, communications and information systems, records management, and the preparation of office manuals.

Graduate College

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 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 students and their graduate committee. A final comprehensive oral and/or written examination over course work and the thesis or project is required.

Course offerings

GO - GEOLOGY

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 filling out necessary forms. PREREQ: GO 221, or PH 220.

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. PREREQ: Graduate status or PERM/INST.

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 geographical relationships and physical evolution. Each province is investigated in terms of its structural and geologic history and mineral resources. PREREQ: Graduate status of PERM/INST.

GO 541 METHODS AND TECHNIQUES OF GATHERING, MEASURING AND TESTING 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, sedimentation, petrologic and mineralogical samples with laboratory techniques, and to log subsurface data. PREREQ: PERM/INST.

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. PREREQ: Graduate status or PERM/INST.

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

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

GO 591 PROJECT (7-3 to 0-6). A field, laboratory or laboratory research. The student will select a project according to his own interest and pursue it to a logical conclusion. Weekly progress meetings are held with the instructor and a final report is required. PREREQ: Graduate status and 15 credits in Earth Science or PERM/INST.

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

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

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

GS GENERAL SCIENCE

GS 501 HISTORY OF SCIENCE (3-0-3)(F/S). This is a survey of humanity's efforts to understand the natural world. "Ancient Science" is presented as an introduction to the evolution of science since the 16th century. "Modern Science" is presented with emphasis on the development of modern scientific thought. Historical illustrations of the nature of scientific research in the evolution of science are presented. This course may be taken for either HY or GS credit, but not for both.

Master of 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 students 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.
   - E-500 .............................................3
   - E-593 or E-595 ................................3-6
   - Graduate English electives (except E-501) .......12
   - Graduate Core (TE 570) ..............................6
   - General Graduate electives (may include E-501) .......9
   - Total 33

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.
   - E 500 .............................................3
   - Graduate English electives (except E-501) ..........15
   - Graduate Core (TE 570) ..............................6
   - General graduate electives (may include E-501) .......9
   - Examination on English coursework .................33

The introductory Seminar (E 500) is prerequisite to other 500 level seminars. However, with the consent of the student's committee, the student may concurrently take another seminar. With the exception of E 501 and E 597, all seminars will be in specified areas of American and British literature and linguistics, though they may cover influence from other literatures. A maximum of 6 hours in 400G English courses may be substituted for seminar work in the English core. E 501 may be taken as a general elective, but may not be counted toward a student's English core.

Since the content of courses E 501, 520, 530, 540, 550, 560, 570, and 597 may vary from term to term, a student may repeat any of these courses for credit but may not count more than 6 hours toward his English core.

Course offerings

E - ENGLISH

Graduate

E 467G MODERN BRITISH AND AMERICAN POETRY (3-0-3)(F/S). A study of the radical changes Eliot, Pound, Yeats, and others made in poetry's traditional aesthetic and thematic concerns early in this century. The course traces poetry's continuing metamorphosis into the present day. PREREQ: Three credits literature of PERM/CHMN.

E 488G METHODS AND THEORIES OF LITERARY CRITICISM (3-0-3)(S). A detailed study and application of major critical methods and theories. PREREQ: E 393 or PERM/CHMN.

E 500 INTRODUCTORY SEMINAR (3-0-3)(F/S). An introduction to bibliography

and orientation to sources of information. Students research a concept or problem in literature or writing under supervision. PREREQ: Admission to graduate program or PERM/CHMN.

E 501 THE TEACHING OF WRITING (3-0-3)(F/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 500 or LI 305 or equivalent or PERM/CHMN.

E 510 MAJOR AUTHOR (3-0-3)(F/S). A study 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 evolution of a specific literary genre while at the same time establishing its typical features. PREREQ: E 500 or PERM/CHMN.

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

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

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

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

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

E 581 LITERATURE FOR USE IN JUNIOR AND SENIOR HIGH SCHOOLS (3-0-3)(F). A literary content course for prospective teachers of secondary school English. Primary emphasis on critical reading of literature for adolescent students. 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-O-V). A scholarly paper containing the results of original research. PREREQ: Admission to candidacy and approval of the student's graduate committee.

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

Master of 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.

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

- 33 hour with project
  - Education Core ....................................6

152
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 36 hour.
Education Core .................................................. 6
History Emphasis .................................................. 18
Written examination covering course work taken in the History Department toward the degree

Course Offerings

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
HY 520 Sources of American Values .......................... 3
HY 580, 581, 582 Seminar .................................... 3
TE 570 Graduate Core ......................................... 6

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

Additional information
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.

Students electing a double emphasis will draw up their program in consultation with their committee.

A maximum of six hours in 400G History courses may be substituted for seminar work in the History offerings.

Course offerings

HY - HISTORY
Graduate
HY 334g UNITED STATES SOCIAL AND CULTURAL HISTORY (3-0-3)(F/S).
Selected themes from colonial times to the present. The nature and meaning of the national experience, customs, tradition and intellectual developments. HY 151, 152 recommended.
HY 423g EUROPEAN DIPLOMATIC HISTORY 1871-PRESENT (3-0-3)(F/S). Major problems in European diplomacy since 1871: search for security after unification of Germany, potential collapse of Ottoman Empire, imperialism in Africa and Asia, alliance systems origins of World Wars one and two, cold war and European diplomacy into world diplomacy. Alternate years.
HY 500 HISTORIANS AND HISTORICAL INTERPRETATION (3-0-3). A study of major historians and schools of historical interpretation from Ancient Greece to the twentieth century. Discussion concentrates in written history and the problems of interpretation. Oral and written participation and a major paper are required. PREREQ: Admission to graduate program or PERM/CHMN.
HY 501 HISTORY OF SCIENCE (3-0-3). A survey of man’s efforts to understand the natural world from the ancient world to the present including pre-scientific assumptions, the evolution of science since the 16th century, and the development of modern scientific thought. May be taken for either HY or GS credit, but not both.
HY 592 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 techniques available to teachers of history at the secondary school level.
HY 510 HISTORY OF WESTERN THOUGHT (3-0-3). History of Western thought beginning with the Ancient Near East to the Renaissance and Reformation. A study of intellectual and cultural trends reflected in Western religious and philosophical literature. PREREQ: Admission to the graduate program 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 performed by the students with the assistance of the instructor. PREREQ: Admission to the graduate program or PERM/CHMN.
HY 581 GRADUATE SEMINAR IN EUROPEAN HISTORY (3-0-3). Critical analysis of source materials and historical literature on a topic of restricted scope in European history. PREREQ: Admission to graduate program or PERM/CHMN.
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 subject 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).

Master of Science in Education
Mathematics Emphasis
The Master of Science in Education with a Mathematics emphasis may be obtained through any of the following three options.

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 2
An oral examination over all coursework included in the student’s program

The 33-hour "project option"
Graduate Core .................................................. 6
Mathematics Sequence, Math Seminar and M 591 .......... 12
Mathematics electives ......................................... 6
Free Electives .................................................... 9
A written examination over mathematics coursework 2
The 33-hour "thesis option" is the same as the "project option" except that M 591 is replaced with M 593

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

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

Additional Information
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.

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.

Students considering this program should consult with the Chairman of the Mathematics Department.

Graduate Department
M - MATHEMATICS
Graduate
M 406G THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (3-0-3)(F). Complex numbers, functions of a complex variable, analytic functions, infinite series,
The Master of Arts in Education Music 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 give promise of meeting the standards set by the Music Department.

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 students 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 towardsremedying any deficiencies. Any undergraduate course used to make up the deficiencies will not count toward the Master’s Degree. A student who has any deficiencies will be granted Provisional Status 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.

Required Courses

- MU 503 Introduction to Research Materials in Music Education
- MU 570 New Development in Music Education
- Culminating activity or additional course work
- TE 570 Graduate Core courses
- Total hours: 30-33

Elective Courses

Additional courses as planned by the student and his graduate committee.

* A thesis or final project.

**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.

- All 300 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), 541 (0-5-2) Keyboard instruments private lessons.
- MC 551 (0-5-1), 552 (0-5-2) Fretted string instruments private lessons.
- MC 561 (0-5-1), 562 (0-5-2) Bowed string instruments private lessons.

**ME - MUSIC ENSEMBLE**

- 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 musicum.
- ME 510 OPERA THEATER (0-5-1). Advanced study/experience in singing-acting technique and movement through performing in productions from the opera and/or musical theater repertoire. May be repeated for up to 4 credits maximum.
- ME 520 INSTRUMENTAL ENSEMBLE (0-3-1)/F/S. A performing group or groups will be formed, depending on the size of enrollment, such as trios, quartets, band or orchestra. Opportunities to perform ensemble music of various kinds will be given. Emphasis will be placed on techniques of ensemble playing, imitation, phrasing, articulation and proper performance practice of ensemble literature.
- MU - MUSIC, GENERAL
- MU 501 HISTORY OF MUSIC IN THE UNITED STATES (3-0-3)/F/S. Designed for either the non-specialist or specialist in music, this course will survey the role which music has played in the development of American culture. Among the topics covered will be early New England music, music of the 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/S. Designed for the secondary school music specialist, this course will provide an introduction to the basic research literature within music education, interpretation of research findings, basic research teaching, problems in music educational research, and a review of literature pertinent to students’ major area

Integration, conformal mapping. PREREQ: M 206 or 212.

M431G-432G PROBABILITY AND STATISTICS (3-0-3)/F/S. Basic concepts of probability theory, sample spaces, random variables, mathematical expectation, central limit theorem, estimation and testing of hypotheses. PREREQ: M 206 or 212.

M 456G LINEAR PROGRAMMING (4-0-4)/S. Simplex algorithm, duality theory, postoptimality problems, and transportation problems. PREREQ: M 301. Odd numbered years.


M 503 THE TEACHING OF ALGEBRA (3-0-3). Contemporary approaches to teaching secondary school algebra; treatment of selected topics in modern algebra; methods and materials; research relevant to the teaching of algebra. PREREQ: M 302

M 504 THE TEACHING OF GEOMETRY (3-0-3). Contemporary approaches to teaching secondary school geometry; treatment of selected topics in geometry; methods and materials; research relevant to the teaching of geometry. PREREQ: M 311.

M 505 FOUNDATIONS OF MATHEMATICS (3-0-3). The axiomatic method and its role in modern mathematics. The role of the theories of sets and groups in the development of mathematics. Modern philosophies of mathematics. PREREQ: M 302 or PERM/INST.

M 511 GENERAL TOPOLOGY (3-0-3). Set separation axioms, topologies, connectedness, compactness, generalized convergence, continuity, product spaces. PREREQ: M 401 or M 501 or PERM/INST.

M 541-542 ABSTRACT ALGEBRA I, II (3-0-3). Mappings, the integers, groups, sub-groups, morphisms, rings, integral domains, polynomial rings, fields, field extensions. PREREQ: M 302 or PERM/INST.

M 547 HISTORY OF MATHEMATICS (3-0-3). The course is designed for mathematics teachers in the secondary 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)/SU. Introduction to mathematical modeling through case studies. Deterministic and probabilistic models; optimization. Examples will be drawn from the physical, biological, and social sciences. A modeling project will be required. PREREQ: M 361 and M 122 or PERM/INST.

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.
of interest will be included.

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

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

MU 511 20TH CENTURY MUSICAL STUDIES (3-0-3) (F/S). A study of 20th century 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/S). Designed for secondary music teachers, this course provides opportunity to discover and analyze technical conducting problems, both instrumental and choral, in music of the various historical eras, which forms a significant part of the secondary school repertoire.

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

MU 571 ADVANCED PRACTICES AND PRINCIPLES IN TEACHING MUSIC IN THE ELEMENTARY SCHOOL (3-0-3) (F/S). Designed for the general classroom teacher or music specialist, the course deals with old and new approaches to teaching music in the classroom, teaching materials, current research on problem solvers, creative musical activities, and the development of music reading skills. PREREQ: MU 371 or PERM/INST.

MU 572 LISTENING AND SINGING EXPERIENCES FOR THE ELEMENTARY SCHOOL (3-0-3) (F/S). Designed for the general classroom teacher or music specialist, the course deals with the study of singing and listening materials relevant to classroom music, K-6. Sequential curriculum plans will be developed for singing and listening experiences. PREREQ: MU 371 or PERM/INST.

MU 573 ADVANCED METHODS AND TECHNIQUES FOR THE INSTRUMENTAL INSTRUCTOR (3-0-3) (F/S). A study of causes and solutions for problems occurring in the instrumental rehearsal. Areas to be covered include instrumental methods and techniques, organization and repertoire planning.

MU 574 ADVANCED METHODS AND TECHNIQUES FOR THE CHORAL INSTRUCTOR (3-0-3) (F/S). A study of causes and solutions for problems occurring in the choral rehearsal. Areas to be covered include vocal methods and techniques, organization and repertoire planning.

MU 575 ADMINISTRATION OF SCHOOL MUSIC (3-0-3) (F/S). A seminar in problems of music supervision and administration covering areas such as budget, scheduling, curriculum, personnel and philosophy.

MU 591 CULMINATING PROJECT (0-0-3). Details for the culminating project can be found in requirements for Master's degree in secondary education, music emphasis.

MU 593 THESIS (0-0-6). A scholarly paper embodying results or original research which are used to substantiate a specific view.
Objectives of Vocational Education

To provide the opportunity for state and local citizens to acquire the education necessary:

To become employed, to succeed, and to progress in a Vocational Technical field.

To meet the present and anticipated needs of the local, state and national economy for employees with a Vocational Technical education.

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. Personal interview with a School of Vocational Technical Education counselor.
4. $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 two weeks before classes begin.

There is a limited number of students who can be accepted in all programs so all admission requirements should be completed early. When steps 1-3 have been completed and you have been accepted by one of the Vocational Technical counselors, you are eligible to pay the $75.00 advance deposit. You are not in a program until steps 1 through 4 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
School of Vocational Technical Education

Degree with a major in the field of Vocational Technical Education. Permission to enter the Bachelor of Applied Sciences degree program must be obtained from the School of Vocational Technical Education. See the section on Academic Information elsewhere in the catalog for more information.

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.
   Example: Technical Mathematics/Technical Science/ etc.
   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.

Department of Health Occupations

Department Head: Merle Curtis; Dental Assisting: MacInnis, Imbs; Practical Nursing: Dallas, Towle, Baichtal, Heist, McColough; Surgical Technology: Curtis.

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. Typing is a prerequisite. The dental assistant courses are taught by dental assistant instructors and guest dental lecturers.

The program in Dental Assisting is accredited by the Commission on Dental Accreditation, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education. Students are eligible to take the Certification Examination upon completion of the course.

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 RADIOLOGY (3-5-4)(F). Provides dental assisting students the opportunity to become skilled in dental x-ray procedures with a heavy emphasis on safety.
DA 106 DENTAL ASSISTING CLINICAL EXPERIENCE (0-16-4)(F). 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)(F/S). Enables the students to use our language effectively as a tool for logical thinking, problem solving, technical writing and speaking required in their major field of preparation.
DA 151-152 (5-0-6)(F), (6-0-6)(S). 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 Board of Nursing.

Clinical experience consists of supervised hospital nursing experience in caring for patients with medically and surgically treated conditions, the care of sick children, new mothers and infants, rehabilitation and remotivation techniques in the care of the aged and long term patient. Failure to meet requirements in either theory or clinical areas may result in termination from the program.

Admission requirements

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 January program and ten students will be selected for the September program in Nampa.

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.

SUBJECTS

Fall Spring

Dental Laboratory DA 101-102 ................. 4 2
Dental Radiology DA 104 .................. 4 -
Dental Assisting Clinical Experience DA 106 .................................... - 4
Dental Office Management DA 108 .......... 2 -
Public Health and Dental Hygiene DA 109 2 -
Communication Skills DA 111-112 ........ 3 3
Dental Theory DA 151-152 .................... 6 6
Occupational Relationships DA 262 ........ 2 -
Fundamentals of Speech CM 111 ............. 3 -
Standard First Aid and CPR PE 121 .......... 1 -

Curriculum changes

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

158
PN 101 PROFESSIONAL CONCEPTS (1-0-1). A study of the history, ethics and legalities of practical nursing.

PN 102 ANATOMY AND PHYSIOLOGY FOR PRACTICAL NURSING (4-0-4). A study of the normal structure and function of the body cells, tissues, organs and systems, including the interrelationship of body systems.

PN 104 MEDICAL-SURGICAL NURSING CLINICAL (0-2-7). Clinical experience for PN 121-122.

PN 105 NUTRITION AND DIET THERAPY (2-0-2). An introduction to nutrition and identification of body nutritional needs in health and illness, including the study of diet therapy.

PN 106 EMERGENCY NURSING CONCEPTS (2-0-2). A study of assessment and immediate and temporary treatment of persons involved in accidents or other emergency situations.

PN 107 PHARMACOLOGY FOR PRACTICAL NURSING (3-0-3). A study of drug classification, modes of administration and principles of mathematics essential to drug administration.

PN 108 PHARMACOLOGY CLINICAL (0-4-1). Clinical experience for PN 107. PREREQ: PN 107.

PN 109 GERIATRIC NURSING (1-0-1). A study of the health needs and problems particular to the elderly patient.

PN 110 GERIATRIC CLINICAL (0-4-1). Clinical experience for PN 109. PREREQ: PN 109.

PN 112 MATERNAL AND INFANT CLINICAL (0-6-2). 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 (1-0-1). A study of the health needs of the individual, the family, the community and microbiology.

PN 121 MEDICAL AND SURGICAL NURSING I (8-0-8). A study of diseases and disorders of the body systems including planning, implementation and evaluation of nursing care.

PN 122 MEDICAL AND SURGICAL NURSING II (7-0-7). Continuation of the study of body systems and nursing care. PREREQ: PN 121.

PN 123 GROWTH AND DEVELOPMENT (1-0-1). A study of normal growth and development.

Course offerings

PN 124 MATERNAL AND INFANT HEALTH (2-0-2). A study of the obstetric patient and the neonate both in health and illness.

PN 125 PEDIATRIC NURSING (2-0-2). A study of health, diseases and disorders of children.

PN 126 MENTAL HEALTH AND MENTAL ILLNESS (2-0-2). A study designed to enable the student to become skilled in dealing effectively with people including mental health and the signs and symptoms of mental illness.

PN 262 OCCUPATIONAL RELATIONS AND MENTAL ILLNESS. (2-0-2). Course is designed to enable the student to become skilled in dealing effectively with people and for applying, obtaining and advancing in employment. Also includes a study of signs/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.

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

Classes begin Fall Semester only.

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST 100 Introduction &amp; Basic Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ST 101 Operating Room Techniques</td>
<td>4</td>
</tr>
<tr>
<td>ST 102 Sterilization &amp; Disinfection</td>
<td>1</td>
</tr>
<tr>
<td>ST 110 Care of Surgical Patient</td>
<td>4</td>
</tr>
<tr>
<td>ST 111 Surgical Procedures</td>
<td>7</td>
</tr>
<tr>
<td>ST 131 Clinical Practice</td>
<td>3</td>
</tr>
<tr>
<td>ST 132 Advanced Clinical Practice</td>
<td>6</td>
</tr>
<tr>
<td>PE 121 Standard First Aid and CPR</td>
<td>1</td>
</tr>
<tr>
<td>Z 111 Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Z 112 Anatomy and Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>

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 Oncology; (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) The Surgical Hand Scrub, Gowning and Gloving; (4) Draping Techniques; (5) Sutures and Needles; (6) Sponges, Dressings, Drains, Care of Specimens; (7) Instruments and Special Equipment.

ST 102 STERILIZATION AND DISINFECTION (1-1-1)(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 110 CARE OF THE SURGICAL PATIENT (3-3-4)(S). Includes modules: (1) The Patient; (2) Preparation of the Surgical Patient; (3) Transportation of the Surgical Patient; (4) Positioning the Surgical Patient; (5) Anesthesia; (6) Recovery Room and Emergency Room Care.

ST 111 SURGICAL PROCEDURES (6-4-7)(S). Modules: (1) General Surgical Procedures; (2) General Abdominal Procedures; (3) Orthopedic Surgery; (4) Obstetric and Gynecological Procedures; (5) Genitourinary and Transplant Surgery; (6) Plastic Surgery; (7) Ophthalmic Surgery; (8) Ear, Nose, Throat, Oral Surgery; (9) Neurosurgery; (10) Microsurgery; (11) Cardiovascular and Thoracic Surgery; (12) Pediatric and Geriatric Surgery. Each of the modules includes a brief history, procedures, special considerations and the drugs used.

ST 131 CLINICAL PRACTICE (2-6-3)(F). Includes patient care and beginning experience in the operating rooms, outpatient and central supply.

ST 132 ADVANCED CLINICAL PRACTICE (4-8-6)(S). Includes advanced experience in surgery, scrubbing, and circulating. PREREQ: ST 131.
**Department of Heavy Technologies**

**Department Head:** Gary Arambarri; **Air Conditioning:** Tucker; **Electrical Lineworker:** McKie; **Industrial Mechanics:** Allen; **Machine Shop:** Wertman, Glassen; **Welding:** Arambarri, Baldner.

**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 jobs.

Emphasis will be on the servicing of commercial equipment and will cover all phases of skills and knowledge necessary to repair the equipment with a strong emphasis on safety.

**Subjects**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Conditioning Lab</td>
<td>RH 121-122-123</td>
<td>5</td>
</tr>
<tr>
<td>Air Conditioning Theory RH 141, 142, 143</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Occupational Relationships</td>
<td>RH 262</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>

**Course Offerings**

**RH Electrical Conditioning, Refrigeration and Heating**

RH 121-122-123 AIR CONDITIONING, REFRIGERATION AND HEATING LABORATORY (0-20-5)(0-20-5)(0-20-3). 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 program provides the student with "hands-on" experience permitting further and more concentrated advancement in these skilled areas.

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

**Course Offerings**

**EL Electrical Lineworker**

EL 101-102-103 ELECTRICAL LINEMAN WORKER LABORATORY (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 WORKER 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 (2-0-2)(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.

**Industrial Mechanics - Nine Month Program**

**Certificate of Completion**

The Industrial Mechanics 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.

**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). This course combines use of basic hand tools with selected machine tools (lathe, milling machine, drill press, shaper, pipe/bolt machine) as are required to effectively service or repair increasingly sophisticated industrial devices. Preventive maintenance techniques utilizing this equipment are covered.

IM 110-111 ELECTRO-MECHANICAL SYSTEMS (3-0-3)(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, hydrostats, and accessories.

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

160
The Welding Program provides the student with instruction, practical experience, and related theory in shielded metal arc welding (SMAW), oxygen-acetylene (O/A) welding and brazing, and metal inert gas (MIG) welding, oxygen-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 second session will be a two-tract design. 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.

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), oxygen-acetylene (O/A) welding and brazing, metal inert gas (MIG) welding, oxygen-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 second session will be a two-tract design. 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.

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), oxygen-acetylene (O/A) welding and brazing, metal inert gas (MIG) welding, oxygen-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 second session will be a two-tract design. 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.

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), oxygen-acetylene (O/A) welding and brazing, metal inert gas (MIG) welding, oxygen-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 second session will be a two-tract design. 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.

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), oxygen-acetylene (O/A) welding and brazing, metal inert gas (MIG) welding, oxygen-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 second session will be a two-tract design. 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.

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), oxygen-acetylene (O/A) welding and brazing, metal inert gas (MIG) welding, oxygen-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 second session will be a two-tract design. 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.

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), oxygen-acetylene (O/A) welding and brazing, metal inert gas (MIG) welding, oxygen-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 second session will be a two-tract design. 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.

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), oxygen-acetylene (O/A) welding and brazing, metal inert gas (MIG) welding, oxygen-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 second session will be a two-tract design. 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.

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), oxygen-acetylene (O/A) welding and brazing, metal inert gas (MIG) welding, oxygen-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 second session will be a two-tract design. 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.

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), oxygen-acetylene (O/A) welding and brazing, metal inert gas (MIG) welding, oxygen-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 second session will be a two-tract design. 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.

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), oxygen-acetylene (O/A) welding and brazing, metal inert gas (MIG) welding, oxygen-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 second session will be a two-tract design. 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.
Department of Light Technologies

Department Head: E. Allen Weston; Business Machine Technology: Jones, Cadwell; Drafting Technology: Weston, Watts, Burkey, Olson, Benton; Electronics Technology: Dodson, Sluder, Havey; Electronics Service Technology: Jansson, Stack; Wastewater Technology: Place.

Business Machine Technology - Two Year Program

Associate of Applied Science Degree

This program and outline in Business Machine Technology has been developed to give the student of the course enough basic knowledge to be productive and able to perform the average job without any additional training. The student will be qualified to make maintenance inspections, make proper mechanical and electronic adjustments and/or repairs, and do general shop work. The student will be in a position to receive on-the-job training by his employer to become a highly specialized technician. The student will be trained in electronics and mechanical principles, with specialized training in microcomputers, typewriters, word processing, electronic cash registers and most other types of business machines.

<table>
<thead>
<tr>
<th>Course Offerings</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM 111-112 COMMUNICATION SKILLS (3-0-3)</td>
</tr>
<tr>
<td>BM 113 CUSTOMER RELATIONS (2-0-2)</td>
</tr>
<tr>
<td>BM 155 BUSINESS MACHINE TECHNOLOGY (5-17-9)</td>
</tr>
<tr>
<td>BM 156 BUSINESS MACHINE TECHNOLOGY (5-15-9)</td>
</tr>
<tr>
<td>BM 157-158 BASIC ELECTRONIC THEORY (4-1-4)</td>
</tr>
<tr>
<td>BM 255-256 ADVANCED BUSINESS MACHINE TECHNOLOGY (7-17-11)</td>
</tr>
<tr>
<td>BM 271-272 ADVANCED ELECTRONIC THEORY (7-0-7)</td>
</tr>
</tbody>
</table>

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. All courses are taught each semester, so that students may enter at the beginning of any regular semester.

<table>
<thead>
<tr>
<th>Course Offerings</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEM 1st</td>
</tr>
<tr>
<td>BM 101 DRAFTING LABORATORY AND LECTURE (0-4-0)</td>
</tr>
<tr>
<td>BM 102 DRAFTING LABORATORY AND LECTURE (0-4-0)</td>
</tr>
<tr>
<td>BM 111, 112 COMMUNICATION SKILLS (3-0-3/F)</td>
</tr>
<tr>
<td>BM 122 SURVEYING (2-2-2)</td>
</tr>
<tr>
<td>BM 131 MATHEMATICS (4-1-4)</td>
</tr>
<tr>
<td>BM 132 MATHEMATICS (3-1-3)</td>
</tr>
<tr>
<td>BM 141 APPLIED PHYSICS (3-0-3)</td>
</tr>
<tr>
<td>BM 142 APPLIED PHYSICS (3-0-3)</td>
</tr>
<tr>
<td>BM 153 MANUFACTURING PROCESSES (2-1-2)</td>
</tr>
<tr>
<td>BM 172 CONSTRUCTION CODES (2-0-2)</td>
</tr>
<tr>
<td>BM 201 DRAFTING LABORATORY AND LECTURE (1-4-4)</td>
</tr>
<tr>
<td>BM 202 DRAFTING LABORATORY AND LECTURE (1-4-4)</td>
</tr>
</tbody>
</table>
DT 221 DESCRIPTIVE GEOMETRY AND DEVELOPMENT (3-1-3). Theory and practice of coordinate projection applied to the solution of properties of points, lines, planes and solids with practical drafting applications.

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

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

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

DT 241 STATICS (4-0-4). Introductory course in statics with emphasis on analysis of simple structures. PREREQ: DT 132.


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

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

DT 263 SPECIALIZED GRAPHICS (2-1-2). An intensive study of perspective and rendering as used in industrial illustration, architectural rendering and civil engineering, including mechanical and electronic methods. Lecture-Laboratory. PREREQ: DT 261 (Open to non-drafting technology majors – space permitting).

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.

1st SEM 2nd SEM

FRESHMAN YEAR

Electronics Laboratory ET 101-102 ........................................ 2 1
Communication Skills ET 111-112 ........................................ 3 3
Technical Report Writing ET 121 ........................................ 2 -
Electronics Math I-II ET 131-132 ........................................ 3 3
Basic Physical Science ET 142 ........................................ 3 -
Electronic Theory ET 151-152 ........................................ 3 4
Intro to Digital Electronics ET 161 ........................................ 2 -
Digital Systems I ET 162 ........................................ 2 -
Digital Systems Lab I ET 163 ........................................ 1 -
Solid State Devices I ET 171 ........................................ 3 -
Solid State Devices Lab I ET 173 ........................................ 18 -

SOPHOMORE YEAR

Linear Systems Lab ET 201 ........................................ 1 -
Telecommunications Lab ET 202 ........................................ 1 -
Calculus I-II ET 231-232 ........................................ 3 3
Instrumentation ET 241 ........................................ 2 -
Instrumentation Lab ET 242 ........................................ 1 -
Linear Systems ET 251 ........................................ 3 -
Telecommunications Systems ET 252 ........................................ 3 -
Occupational Relations ET 262 ........................................ 2 -
Digital Systems II ET 264 ........................................ 2 -
Digital Systems Lab II ET 265 ........................................ 1 -
Solid State Devices II ET 273 ........................................ 2 -
Solid State Devices Lab II ET 274 ........................................ 1 -
Digital Systems III ET 275 ........................................ 2 -
Digital Systems Lab III ET 276 ........................................ 1 -
Microprocessor Systems ET 277 ........................................ 2 -
Microprocessor Systems Lab ET 278 ........................................ 1 -
*Occupational Electives ........................................ 18 17

Total Number of Credit Hours: 71

*Elective chosen from following course offerings to fulfill Occupational Area core requirements. These selections are also chosen with the intent of fulfilling the general education requirements for the associate of applied science degree: CB 101, EC 201, EC 202, AC 205, AC 206, CB 202, EC 251, CM 111, CM 131, CM 221 CM 251, MG 301, ES 102, P 101.

Semiconductor Technology - Two Year Program

Associate of Applied Science Degree

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

1st SEM 2nd SEM

FIRST YEAR

Course

General Physics PH 101-102 ........................................ 4 4
College Chemistry C 131 ........................................ 3 -
Chemistry Lab C 132 ........................................ 1 -
Advanced Electronics Math ET 231-232 ........................................ 3 3
Communication Skills ET 111-112 ........................................ 3 3
Intro to Digital Electronics ET 161 ........................................ 2 -
Intro to Integrated Circuit Industry ET 181 ........................................ 2 -
Intro to Integrated Circuit Processing ET 182 ........................................ 2 -
Integrated Circuit Processing I ET 183 ........................................ 3 -
*Elective ........................................ 3 -
Total ........................................ 18 18

SECOND YEAR

Course

Digital Systems I and II ET 162, ET 264 ........................................ 2 2
Technical Report Writing ET 113 ........................................ 2 -
Intro to Solid State Physics ET 291 ........................................ 3 -
Solid State Device Physics ET 292 ........................................ 3 -
Integrated Circuit Layout ET 281 ........................................ 2 -
Electronics Theory I and Lab ET 151-101 ........................................ 5 -
Electronics Theory II and Lab ET 152-102 ........................................ 5 -
Solid State Devices I ET 172 ........................................ 3 -
*Elective ........................................ 3 3
Total ........................................ 15 18

Total Number of Credit Hours: 69

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

Course Offerings

ET ELECTRONIC TECHNOLOGY

ET 101 ELECTRONICS LABORATORY I (0-10-2)(F/S). Experiments in direct current electronics. Study of resistance, DC circuit behavior, DC applications of capacitors and inductors, DC operation of transistor circuits, and characteristics of DC test equipment.


ET 111, 112 COMMUNICATION SKILLS (3-0-3)(F/S). Study of terms, attributes, and the mechanics of language for logical thinking, speaking, and writing. Training includes an introduction to inference using both verbal and symbolic techniques, Industrial applications include organization and delivery of technical reports in written and oral forms, business correspondence, and resume preparation.

ET 113 TECHNICAL REPORT WRITING (1-4-2)(F/S). Composition of standardized technical reports, proper usage of electrical schematic drawings and proper use of headings and punctuation.

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

ET 132 ELECTRONICS MATHEMATICS II (3-3-3)(F/S). Complex numbers, vectors and vector mathematics, trigonometric functions and equations, and graphing of trigonometric functions. PREREQ: ET 131.

ET 142 BASIC PHYSICAL SCIENCE (3-0-3)(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 162 DIGITAL SYSTEMS I (2-0-2)(F). Basic TTL and MOS gate operations, combinational logic circuits, tri-state logic gates, expander functions of gates, fan-out specifications, propagation delay and operating speed. Basic sequential logic operations, R-S and J-K flip-flop fundamentals. PREREQ: ET 161

ET 163 DIGITAL SYSTEMS LAB I (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 equivalent.

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

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

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


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/S). 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/S). Laboratory exercises to complement ET 273. Study of characteristics of SCR devices, photodiodes and photo-transistors, light emitting diodes, laser diodes, LASER devices, power field effect transistors, solid state temperature sensors and strain gauges. PREREQ: ET 172.


ET 281 INTEGRATED CIRCUIT CIRCUIT LAYOUT (2-0-2)(F). 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 -
Advanced Electronics Technology ES 253-256 ....... 4 4
Advanced Digital Electronics ES 271-272 ......... 4 4
Individual Study ES 275 ......... 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 for applying, getting, maintaining and advancing in employment. One semester course.
ES 263 SHOP MANAGEMENT (3-0-3). 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 microprocessor architecture and machine language 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 276 INDEPENDENT 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 CET certificate preparation.

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.

<table>
<thead>
<tr>
<th>Subjects</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wastewater Lab I WW 101</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Wastewater Lab II WW 102</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td>Wastewater Treatment Plant Ops I WW 151</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Wastewater Treatment Plant Ops II WW 152</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>Occupational Relations WW 262</td>
<td>15</td>
<td>17</td>
</tr>
</tbody>
</table>

SUMMER

Plant Practicum WW 105 | 8       |

Course offerings

WW WASTEWATER TECHNOLOGY

WW 101 WASTEWATER LAB (0-20-10). Consists of trips to the various types of wastewater treatment facilities as an introduction to the many varied processes within the industry. Upon completion of various process units visits to the plants will be made on just that unit. Mechanically related lab along with the necessary sanitary chemistry lab will be performed.

WW 102 WASTEWATER LAB II (0-20-10). Student assignments to a local waste facility for two days per week will consist of hands on day-to-day operation of a wastewater facility. Continuation of the chemistry and mechanical labs. An aquatic field survey covering stream flow, stream chemistry, watershed identification, weir installation and aquatic identification.

WW 103 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 151 WASTEWATER TREATMENT PLANT OPERATIONS (0-10-5). Introduction to wastewater treatment plant operations, including collection systems, pre-treatment primary sedimentation, aerobic and anaerobic digester operations. Related math, communication skills and chemistry.

WW 152 WASTEWATER TREATMENT PLANT OPERATIONS II (0-10-5). Secondary treatment processes including trickling filter, ABF (Aerobic Biological Filter) with greater emphasis on activation sludge, process control. Plant process interaction, report writing, budget preparation and finance and related first aid safety.

WW 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.

Department of Mechanical Technologies

Department Head: Charles Tillman; Agricultural Equipment Technology: Gaines; Auto Body: Parke; Auto Mechanics: King, Mikesell; Heavy Duty Mechanics: Tillman, Brownfield, Hall; Small Engine Repair: Schroeder.

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.

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Equipment Lab AE 101-102</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Agricultural Equipment Theory AE 151-152</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Occupational Relationships AE 262</td>
<td>16</td>
<td>18</td>
</tr>
</tbody>
</table>

Course offerings

AE AGRICULTURAL EQUIPMENT TECHNOLOGY

AE 101-102 AGRICULTURAL EQUIPMENT LAB (0-25-6). 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 background necessary for employment in a shop repairing damaged automobiles and small trucks. 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, mild Steel, wirefeed), painting (lacquer, acrylic enamel, urethanes, blending, matching), metal working (repair, replace, shrinking), frame alignment and repair, repair of new cars (UniCoupe Repair, UniCoupe Bench Systems). A Certificate of Completion is issued upon satisfactorily completion of all skills in the eleven month program.

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

**AB AUTO BODY**

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

**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, clutching, 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 (8-28-15)(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. Credit in this course of study is not counted toward an academic degree.

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Engine Laboratory SE 101-102</td>
<td>8</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Small Engine Theory SE 141-142</td>
<td>6</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Occupational Relations SE 262</td>
<td></td>
<td>14</td>
<td>16</td>
</tr>
</tbody>
</table>

**Course offerings**

**SE SMALL ENGINE REPAIR**

SE 101 SMALL ENGINE LABORATORY (0-32-8). 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.

**Department of Service Occupations**

**Department Head:** Joan Lingenfelter; **Child Care Studies:** Lingenfelter, Gourley; **Culinary Arts:** Hoff, Hosman; **Horticulture:** Oyler, Maki; **Mid-Management:** Lane, Office Occupations: Metzgar, Butler, Carlson, Williamson, Englada, Enyart, Anderson; **Instructional Support:** Tompkins; **Special Needs:** Scholes, Skirnams.

**Child Care Studies**

This curriculum is planned for people interested in working as teachers and/or as supervisors in private day care centers, play grounds, camps, nurseries, kindergartens, and child development centers.

**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**

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>1st SEM</th>
<th>2nd SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Child Development</td>
<td>CC 100</td>
<td>-</td>
</tr>
<tr>
<td>Introduction to Child Development</td>
<td>CC 151</td>
<td>3</td>
</tr>
<tr>
<td>Communication Skills</td>
<td>CC 111-112</td>
<td>3</td>
</tr>
<tr>
<td>Health and Care of the Young Child</td>
<td>CC 141</td>
<td>-</td>
</tr>
<tr>
<td>Curriculum of the Young Child</td>
<td>CC 171-172</td>
<td>3</td>
</tr>
<tr>
<td>Child Care Laboratory</td>
<td>CC 181-182</td>
<td>3</td>
</tr>
<tr>
<td>Contract Fld Exp in Early Child Prg</td>
<td>CC 125-126</td>
<td>1</td>
</tr>
<tr>
<td>Plan and Eval of Laboratory Exp</td>
<td>CC 135-136</td>
<td>2</td>
</tr>
</tbody>
</table>

**DAY CARE TEACHER/SUPERVISOR**

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Child Care</td>
<td>CC 255</td>
</tr>
<tr>
<td>Intro to Kindergarten Curriculum</td>
<td>CC 256</td>
</tr>
<tr>
<td>Infant Care</td>
<td>CC 257</td>
</tr>
<tr>
<td>Child Care Center Management</td>
<td>CC 231-232</td>
</tr>
<tr>
<td>Family and Comm Involvement with Child</td>
<td>CC 252</td>
</tr>
<tr>
<td>Occupational Relationships</td>
<td>CC 261</td>
</tr>
<tr>
<td>Feeding Children</td>
<td>CC 241-242</td>
</tr>
<tr>
<td>Child Care Center Supervision</td>
<td>CC 201-202</td>
</tr>
<tr>
<td>Contract Pract in Early Child Superv</td>
<td>CC 235-236</td>
</tr>
<tr>
<td>Plan and Eval of Child Care</td>
<td>Center Supvr CC 235-236</td>
</tr>
<tr>
<td><strong>Course offerings</strong></td>
<td>17</td>
</tr>
</tbody>
</table>

**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/S).** Objective: to enable students to use language effectively as a tool for logical thinking, problem solving, technical writing and speaking required in their major field of training.

**CC 125-126 CONTRACTED FIELD EXPERIENCE IN EARLY CHILDHOOD PROGRAMS (0-8-2).** Individual contract arrangement involving students, instructor and cooperating community agency to gain practical experience in off-campus settings. PREREQ: CC 125-126.

**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 relationships.

**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 training, first-aid emergency training and a workshop on the safe maintenance of toys and equipment.

**CC 171-172 CURRICULUM OF THE YOUNG CHILD (3-0-3).** 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 (0-12-3).** 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 (0-8-2).** A course designed to meet specific needs of the student as determined by 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 mealtimes 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 Program - 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.

CA 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.

Horticulture - Two Year Program
Associate of Applied Science Degree

The Landscape Construction and Maintenance Program has for its objective the preparation of students for employment in the landscape, nursery, floral, greenhouse, and fruit and vegetable industries. This includes both the production, sales and service areas of these major fields. It 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, green house work and sales in the related fertilizer and insecticide fields.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Title</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>HO Horticulture Laboratory HO 101-102</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Communication Skills HO 111-112</td>
<td>3</td>
<td>3</td>
</tr>
<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>
</tr>
<tr>
<td>Horticulture Theory HO 151-152</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Title</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horticulture Laboratory HO 201-202</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Related Science HO 241-242</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Horticulture Theory HO 251-252</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Occupational Relationships HO 262</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Individual Project HO 271</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Consumer Marketing MM 105</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Salesmanship MM 101</td>
<td>18</td>
<td>18</td>
</tr>
</tbody>
</table>

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. Identifications 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 and theory 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)[F/S]. Objective; to enable students to use language effectively as a tool for logical thinking, problem solving, technical writing and speaking required in their major field of training.

HO 131-132 RELATED BASIC MATHEMATICS (3-0-3). First semester—developing comprehension of the basic principles of mathematics. Specific areas include addition, subtraction, multiplication, division, fractions, decimals, square 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.

HO 201 HORTICULTURE LABORATORY (0-15-4). Applying the related and theory content to the solution of practical problems in horticulture. Specific areas of application include preparing greenhouse drawings, making concrete, block, brick, stone and wood structures, turf grass installation, and identification of trees and shrubs.

HO 202 HORTICULTURE LABORATORY (0-15-4). Applying the related and theory content to the solution of practical problems in horticulture. Specific areas of application include preparing landscape drawings, commercial, residential, part, Japanese gardens, turf grass installation and maintenance.

HO 241 RELATED SCIENCE (2-0-2). Developing comprehension of the scientific principles utilized in plant growing and materials of construction.

HO 242 RELATED SCIENCE (2-0-2). Developing comprehension of the scientific principles utilized in; power equipment, lawn and shrub maintenance, and plant wounds, basic first aid.

HO 251 HORTICULTURE THEORY (7-0-7). Landscape maintenance. Plant identification and uses, landscape design, turf management, and shade tree identification and installation.

HO 252 HORTICULTURE THEORY (7-0-7). Horticulture power machines and maintenance of tillers, mowers, shredders, construction design, nursery production, and garden center management.

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

HO 271 INDIVIDUAL PROJECTS (3-0-3). Providing the opportunity for the student to apply his prior education in planning, developing, and completing a unique, practical horticulture project.

Marketing* - Mid-Management - Two Year Program
Associate of Applied Science Degree

NOTE: The Marketing-Mid-Management program is also listed in Part 7 of the catalog, under the College of Business.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Title</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101-102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Business GB 202</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Math or Information-Decision Science</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salesmanship MM 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Introduction to Financial Accounting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AC 205</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Principles of Economics-Macro EC 201</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mid-Management Practicum MM 100</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Elements of Management MM 105</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CM 111</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Title</th>
<th>SEM</th>
<th>SEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer Marketing MM 201</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Principles of Economics-Micro EC 202</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Principles of Advertising MM 203</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Report Writing MM 209</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Supervision of Personnel MM 204</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Retail Merchandising MM 204</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Psychology P 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mid-Management Practicum MM 100</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
<td>5</td>
</tr>
</tbody>
</table>

NOTE: MM Courses are listed in Part 7 of the catalog

* For students at Mountain Home Air Force Base there are minor changes regarding this program. See Base Education Officer or the Chairman of the BSU Department of Marketing and Administrative Services.

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. Upon 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:

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

**SECRETARY - 2 Semesters**
- Business Math-Machines OF 118 .......... 4 -
- Business Communications OF 110 ............... 5 -
- Business Writing OF 120 ......................... 4 4
- Typing I, II or III OF 102, 103, or 104 .... 4 4
- Word Processing OF 114 ............................ - 3
- Record Keeping OF 116 ............................. - 3
- Filing OF 112 ........................................ 1 1
- Shorthand I, II, or III OF 121, 122, 123 .... 4 4
- Shorthand Lab I or II OF 115, 117 .......... 18 21

**CLERK-TYPIST - 2 Semesters**
- Business Math-Machines OF 118 .......... 4 -
- Business Communications OF 110 ............... 5 -
- Business Writing OF 120 ......................... 4 4
- Typing I, II, or III OR 102, 103 or 104 .... 4 4
- Word Processing OF 114 ............................ - 3
- Record Keeping OF 116 ............................. - 3
- Filing OF 112 ........................................ 1 1

**CLERK-GENERAL OFFICE - 2 Semesters**
- Business Math-Machines OF 118 .......... 4 -
- Business Communications OF 110 ............... 5 -
- Business Writing OF 120 ......................... 4 4
- Typing I, II, or III OR 102, 103 or 104 .... 4 4
- Filing OF 112 ........................................ 1 1
- Bookkeeping I OF 100 ............................... 5 -
- Bookkeeping II OF 101 .............................. - 5

**Course Offerings**

**OF OFFICE OCCUPATIONS**

**OF 100 BOOKKEEPING I (3-4-5)(F).** 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 (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/S).** 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/S).** Continued study of typewriting procedures to develop speed and accuracy in office applications. Measuring basic/production skills.

**OF 110 BUSINESS COMMUNICATIONS (5-0-3)(F).** Emphasis on developing grammatical 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/S).** Open lab to be used in conjunction with OF 122.

**OF 116 RECORD KEEPING (2-3-4)(S).** Fundamental operations of computerized processes of office and clerical office jobs in which recordkeeping is involved.

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

**OF 118 BUSINESS MATH/MACHINES (3-2-4)(F).** Fundamental operations of arithmetic in business usage. Decimals, fractions, percentages, interest discounts, markups, 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 (3-0-4)(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)(F/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/S).** 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.

**Apprenticeship and Trade Extension**

Through cooperative arrangements with the State Board for Vocational Education, Boise State University School of Vocational Technical Education sponsors a wide range of trade extension programs for beginning, apprentice, and journeyman workers. Such courses are designed to meet the specific needs of industry, labor, agriculture, and government. Classes usually meet in the evening. Flexibility of scheduling, content, place of meeting is maintained in order to meet the growing educational needs of the community. Typically, though not invariably, such courses provide related technical education for those workers receiving on-the-job instruction in such vocations as sheet-metal, carpentry, plumbing, welding, electricity, electronics, typing, automotive, nursing, and farming.

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

**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).
Administration

Board of Trustees

Robert L. Montgomery, President ......................... Boise
Diane Bilyeu, Member .................................. Pocatello
Roberta Fields, Member ................................ Rexburg
Charles M. Grant, Member ................................ Jerome
Cheryl Hymas, Member .................................. New Meadows,
Mike P. Mitchell, Member ................................ Lewiston
Dennis E. Wheeler, Member ................................ Wallace
Jerry L. Evans, State Superintendent of Public Instruction (ex officio member) ................................ Boise

University Administration

Executive Officers

JOHN H. KEISER, Ph.D. ...................... President of the University
Larry Burke, B.A. .................. Director, University Relations
Jacquelyn Cassell .................... Administrative Assistant
Elizabeth Hecker, Ph.D. .......... Executive Assistant
Eugene Bleymaier, J.D. .......... Director of Athletics

RICHARD E. BULLINGTON, Ed.D. .... Executive Vice President
Timothy A. Brown, M.S. .... University Librarian
Kenneth H. Hollenbaugh, Ph.D. .. Assoc. Exec. Vice President
Dean of Graduate College
Richard Mabbutt, M.A. ........ Director, University Research Center
Clair Bowman, Ed.D. ........... Director, Institutional Research

ASA M. RUYLE, Ed.D. .... Vice President for Financial Affairs
Alvin G. Hooten, M.S. .... Asst. Vice Pres., Financial Affairs
Ronald R. Turner, C.P.A. .... Budget Officer
Darrell VanKleek, B.S. .... Controller

DAVID S. TAYLOR, Ph.D. .... Vice President for Student Affairs
Guy L. Hunt, Ph.D. ........ Dean of Admissions
Susanna Yunker, M.S. .... Dean, Student Special Services

Academic Officers

Victor H. Duke, Ph.D. .......... Dean, College of Health Sciences
JoAnn Vahey, Ed.D. .......... Associate Dean, Health Sciences
Richard L. Hart, Ed.D. .......... Dean, College of Education
Lamont Lyons, Ed.D. .......... Associate Dean, Education
Donald V. Heelas, Ed.D. .......... Dean, Vocational-Technical Education
Tom G. Denison, Ph.D. .......... Associate Dean, Vocational-Technical Education

William L. Jensen, M.A. .......... Director, Continuing Education and Summer Sessions
William J. Keppler, Ph.D. .......... Dean, College of Arts & Sciences
Margaret Peek, Ph.D. .......... Associate Dean, Arts & Sciences
Thomas E. Stitziel, Ph.D. .......... Dean, College of Business
Stewart Tubbs, Ph.D. .......... Associate Dean, Business
Ronald Sloan, M.B.A. .......... Director, Research & External Relations, Business
Boise State University Faculty and Emeriti
Full-Time Official Faculty As of December, 1984

A

Ackley, Louise Assistant Professor, English; M.A., University of Washington (1969)
Adornato, Mary Assistant Professor, Nursing; M.S., Catholic University of America (1984)
Affleck, Stephen B. Associate Professor, Engineering; Ph.D., Iowa State University (1981)
Allen, John W. Professor, Physics; Ph.D., Harvard University (1971)
Allen, Robert L. Advanced Instructor, Industrial Mechanics; B.A., Boise State University (1976)
Anderson, Robert Professor, Mathematics; Ph.D., Michigan State University (1970)
Arrebarri, Gary. Assistant Professor, Respiratory Therapy; M.S., College of Idaho (1976)
Ayers, Kathleen L. Assistant Professor, Mathematics M.S., University of Idaho (1983)

B

Baintch, Melanie Instructors, Practical Nursing; B.S.N., Cal State, Chico (1983)
Baker, Charles W. Professor, Biology; Ph.D., Oregon State University (1968)
Baker, Elizabeth Associate Professor, Nursing; M.S., University of California San Francisco (1980)
Baker, Richard P. Professor, Sociology; Chairperson, Soc. Anthro, & CJA Department; Ph.D., Washington State University (1973)
Baldassarre, Joseph A. Assistant Professor, Music; M.A., Kent State University (1975)
Baldner, Ronald Assistant Professor, Welding; M.S., University of Illinois (1978)
Baldwin, David A. Head Librarian, Curriculum Resource Ctr, Library; Associate Professor, Library Science; M.A., University of Iowa (1977)
Baldwin, John B. Professor, Music; Ph.D., Michigan State University (1971)
Ball, Richard Associate Professor, Mathematics; Ph.D., University of Wisconsin (1968)
Barclay, Richard C. Professor, Organic Chemistry; Ph.D., Oregon State University (1968)
Barrett, Gwynn W. Professor, History; Ph.D., Brigham Young University (1968)
Barsness, Wylla D. Professor, Psychology; Ph.D., University of Minnesota (1968)
Barton, Charles Rayborn Associate Professor, Political Science; A.B., Associate Dean, School of Public Affairs; Ph.D., University of Alabama (1981)
Bauwens, Jeanne Assistant Professor, Teacher Education; Ed.D., University of Idaho (1984)
Beecher, Marc Joseph Assistant Professor, Biology; Ph.D., Washington State University (1983)
Beitia, John Associate Professor, Teacher Education; Ed.D., Utah State University (1970)
Belly, Jeanne Marie Assistant Professor, Music; M.A., Ball State University (1983)
Benson, Elmo E. Associate Professor, Art; Ed.D., University of Idaho (1975)
Bentley, Elton B. Associate Professor, Geology, Geophysics; Ph.D., University of Oregon (1980)

Benton, Danny Instructor, Drafting; B.S., La Salle Extension University (1983)
Berg, Lynn Assistant Professor, Music; D.M.A., University of Wisconsin-Madison (1969)
Bieter, J. Patrick Professor, Teacher Education; Ed.D., University of Idaho (1989)
Bigelow, John D. Associate Professor, Management; Ph.D., Case Western Reserve University (1982)
Billings, Donald B. Professor, Economics; Ph.D., University of Oregon (1972)
Bixby, Michael Assistant Professor, Management; J.D., University of Michigan (1981)
Blain, Michael Assistant Professor, Sociology; Ph.D., University of Colorado (1983)
Blankenship, Jim Associate Professor, Art; M.F.A., Otis Art Institute (1977)
Boren, Robert R. Professor, Communication; Chairperson, Communication Department; Ph.D., Purdue University (1971)
Bounds, Karen J. Associate Professor, Admin Services; Ed.D., North Texas State University (1973)
Bowman, Bill C. Professor, Physical Education; Chairperson, Physical Education Department; Ed.D., Brigham Young University (1969)
Bowman, Clair M. Director, Institutional Research; Professor, Teacher Education; Ed.D., Indiana University (1976)
Boylan, Thomas E. Assistant Professor, Physical Education; M.A., Brigham Young University (1970)
Boyer, Dale K. Professor, English; Ph.D., University of Missouri (1968)
Boylan, Richard Professor, Communication; Ph.D., University of Iowa (1971)
Boyles, Jean C. Assistant Professor, Physical Education; M.S., University of Colorado (1949)
Brett, J. Wallis Associate Professor, Music; M.M., University of Utah (1970)
Brendel, Susan L. Associate Professor, Information Science; Ph.D., University of Iowa (1969)
Brinton, Alan P. Professor, Philosophy; Ph.D., University of Minnesota (1975)
Brown, Timothy University Librarian; Associate Professor, Library Science; M.S., University of Illinois (1977)
Brownfield, Theodore Standard Instructor, Hvy-Duty Mechanics (Diesel); University of Utah (1979)
Brownsmith, Cynthia L. Associate Professor, Psychology, Teacher Education; Ph.D., Indiana University (1979)
Brudenell, Ingrid Assistant Professor, Nursing; M.S., University of Colorado (1981)
Buhler, Peter Associate Professor, History; Ph.D., University of California San Diego (1980)
Bullington, Richard E. Executive Vice President; Professor, Education; Ed.D., University of Alabama (1968)
Burkey, Ralph Senior Instructor, Drafting; Senior Instructor, Drafting; (1973)
Burmaster, Orvis Assistant Professor, English; M.A., University of Montana (1968)
Buss, Stephen R. Assistant Professor, Theatre Arts; Ph.D., Washington State University (1979)

The Date in Parentheses Is The Year of First Appointment.
Faculty

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)  
Standard Instructor, Business Machine Repair.

Caks, Erna M .......................... (1969)  
Chairperson, Student Services, Vo-Tech; Instructor; M.Ed., University of Idaho.

Capell, Harvey J .......................... (1982)  
Assistant Professor, Decision Sciences; M.B.A., Northwestern University.

Carlton, Janet .......................... (1974)  
Assistant Professor, Office Occupations; M.A., Boise State University.

Carter, Loren S .......................... (1970)  
Professor, Chemistry; Ph.D., Washington State University.

Centanni, Russell .......................... (1973)  
Professor, Biology; Ph.D., University of Montana.

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

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

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

Cocotis, Mardie A .......................... (1972)  
Associate Professor, English; M.A., Reed College.

Colby, Conrad .......................... (1970)  
Associate Professor, Respiratory Therapy, Medical Records; Chairperson, Allied Health Studies; 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., Iliff School of Theology.

Cornwell, Robert .......................... (1969)  
Professor, Admin 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.

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

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

Curtis, “Merle” .......................... (1971)  
Instructor, Surgical Technology; Chairperson, Health Occupations.

D

Dahlgren, 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)  
Advanced Instructor, Practical Nursing; Program Head, Practical Nursing; M.S., University of Idaho.

Assistant Professor, Economics; Ph.D., 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 Vo-Tech Education; Assistant Professor; 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 Education; Ph.D., Ohio University.

Duke, Victor H .......................... (1972)  
Dean, College of Health Science; Professor, Pharmacology, Health Science; Ph.D., University of Utah.

Assistant Professor, Physics; Ph.D., University of Texas Austin.

E

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

Edmundson, Eldon .......................... (1976)  
Associate Professor, Public Health, Health Science; Chairperson, Community & Environmental Health; Ph.D., Washington State University.

Edmundson, Pharmulis .......................... (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 F .......................... (1970)  
Associate Professor, Theatre Arts; Ph.D., University of Oregon.

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

F

Fahlstrom, Genger .......................... (1974)  
Assistant Professor, Physical Education; M.Ed., Bowling Green State University.

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

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

Foraker-Thompson, Janie .......................... (1982)  
Assistant Professor, Criminal Justice Administration; Ph.D., University of California Berkeley.

Fountain, Carol E .......................... (1967)  
Associate Professor, Nursing; M.N., Montana State University.
<table>
<thead>
<tr>
<th>Name</th>
<th>Title and Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fox, Roy F</td>
<td>Assistant Professor, English; Coordinator, Composition, English Department; Ph.D., University of Missouri Columbia</td>
</tr>
<tr>
<td>Frankle, Alan</td>
<td>Associate Professor, Finance; Ph.D., University of Arizona</td>
</tr>
<tr>
<td>Frederick, E Coston</td>
<td>Professor, Teacher Education; Director, Reading Education Center; Ph.D., Syracuse University</td>
</tr>
<tr>
<td>French, Judith</td>
<td>Associate Professor, Teacher Education; Ph.D., Florida State University</td>
</tr>
<tr>
<td>Friedli, Robert L</td>
<td>Professor, Teacher Education; Ph.D., University of Utah</td>
</tr>
<tr>
<td>Fritchman, II H K</td>
<td>Professor, Psychology; Ph.D., University of California Berkeley</td>
</tr>
<tr>
<td>Fuhriman, Jay H</td>
<td>Assistant Professor, Teacher Education; Director, Bilingual Education; Coordinator, Foreign Languages; Ed.D., Texas A &amp; I University</td>
</tr>
<tr>
<td>Fuller, Eugene G</td>
<td>Professor, Biology; Ph.D., Oregon State University</td>
</tr>
<tr>
<td>Gabert, Marvin C</td>
<td>Assistant Professor, Construction Management; M.A., Stanford University</td>
</tr>
<tr>
<td>Gaines, Marilyn</td>
<td>Instructor, Agricultural Equipment</td>
</tr>
<tr>
<td>Gallup, V Lyman</td>
<td>Associate Professor, Decision Sciences; Head Coach, Golf; Ph.D., University of Oregon</td>
</tr>
<tr>
<td>Gardner, Norman D</td>
<td>Associate Professor, Finance; Ph.D., University of Utah</td>
</tr>
<tr>
<td>Gill, Edward K</td>
<td>Associate Professor, Finance; Ph.D., University of Oregon</td>
</tr>
<tr>
<td>Gingras, Russell T</td>
<td>Associate Professor, Accounting; D.B.A., Michigan State University</td>
</tr>
<tr>
<td>Glassen, Gustav B</td>
<td>Instructor, Machine Shop; Certificate, Mergenthaler Linotype Co</td>
</tr>
<tr>
<td>Glen, Roy</td>
<td>Associate Professor, Management; Ph.D., Case Western Reserve University</td>
</tr>
<tr>
<td>Gourley, Margaret</td>
<td>Standard Instructor, Child Care; B.A., College of Wooster</td>
</tr>
<tr>
<td>Grantham, Stephen B</td>
<td>Assistant Professor, Mathematics; Ph.D., University of Colorado</td>
</tr>
<tr>
<td>Griffin, John</td>
<td>Assistant Professor, Mathematics; Ph.D., Washington State University</td>
</tr>
<tr>
<td>Groebner, David F</td>
<td>Professor, Decision Sciences; Ph.D., University of Utah</td>
</tr>
<tr>
<td>Guilford, Charles</td>
<td>Assistant Professor, English; Ph.D., Northern Illinois University</td>
</tr>
<tr>
<td>Harbison, Warren</td>
<td>Associate Professor, Philosophy; Ph.D., Syracuse University</td>
</tr>
<tr>
<td>Harsha, Phillip</td>
<td>Assistant Professor, Accounting; Ph.D., Georgia State University</td>
</tr>
<tr>
<td>Hart, Richard L</td>
<td>Dean, College of Education; Professor, Education; Ed.D., University of Nebraska Lincoln</td>
</tr>
<tr>
<td>Haustrath, Alan</td>
<td>Associate Professor, Mathematics; Ph.D., Brown University</td>
</tr>
<tr>
<td>Heals, Donald V</td>
<td>Professor, Analytical Chemistry; Ph.D., Washington State University</td>
</tr>
<tr>
<td>Heap, Felix A</td>
<td>Professor, Teacher Education; Chairperson, Teacher Education Department; Ed.D., University of Idaho</td>
</tr>
<tr>
<td>Heise, Frank K</td>
<td>Associate Professor, Theatre Arts; Director, Operations, Morrison Center; M.A., University of South Dakota</td>
</tr>
<tr>
<td>Heist, Noreen</td>
<td>Instructor, Practical Nursing; B.S.N., University of Utah</td>
</tr>
<tr>
<td>Herrell, Linda</td>
<td>Instructor, Teacher Education; M.A., Boise State University</td>
</tr>
<tr>
<td>Hight, Robert A</td>
<td>Professor, Analytical Chemistry; Ph.D., Washington State University</td>
</tr>
<tr>
<td>Hill, Ken L</td>
<td>Professor, Teacher Education; Chairperson, Teacher Education Department; Ed.D., University of Idaho</td>
</tr>
<tr>
<td>Hoff, Laver K</td>
<td>Instructor, Culinary Arts; B.S., Utah State University</td>
</tr>
<tr>
<td>Hoge, John D</td>
<td>Associate Professor, Teacher Education; Ph.D., Florida State University</td>
</tr>
<tr>
<td>Hollembaugh, Ken</td>
<td>Associate Executive Vice President; Dean, Graduate College; Professor, Geology; Ph.D., University of Idaho</td>
</tr>
<tr>
<td>Hoopes, Gay</td>
<td>Assistant Professor, Art; M.A., Boise State University</td>
</tr>
<tr>
<td>Hopfenbeck, Ted H</td>
<td>Associate Professor, Criminal Justice Administration; M.Ed., University of Arizona</td>
</tr>
<tr>
<td>Hopper, James W</td>
<td>Associate Professor, Music; M.A., Iowa State University</td>
</tr>
<tr>
<td>Hopper, Keith</td>
<td>Instructor, Respiratory Therapy; Clinical Coordinator, Respiratory Therapy; Assoc, Boise State University</td>
</tr>
<tr>
<td>Hsu, Madeleine</td>
<td>Professor, Music; Ph.D., New York University</td>
</tr>
<tr>
<td>Huff, Daniel D</td>
<td>Professor, Social Work; M.S.W., University of Kansas</td>
</tr>
<tr>
<td>Huff, Howard L</td>
<td>Professor, Art; M.F.A., University of Idaho</td>
</tr>
<tr>
<td>Hughes, Robert B</td>
<td>Professor, Mathematics; Ph.D., University of California Riverside</td>
</tr>
<tr>
<td>Hunt, Guy L</td>
<td>Dean, Admissions; Associate Professor, Education; Ph.D., Arizona State University</td>
</tr>
<tr>
<td>Hunter, John A</td>
<td>Assistant Professor, Mathematics; Ph.D., University of California San Diego</td>
</tr>
<tr>
<td>Huskey, Daryl L</td>
<td>Head Librarian, Govt Publications Dept, Library; Associate Professor, Library Science; M.L.S., Emporia State University</td>
</tr>
<tr>
<td>Imbs, Bonnie J</td>
<td>Advanced Instructor, Dental Assisting; Program Head, Dental Assisting; Certificate, State University of New York</td>
</tr>
<tr>
<td>Ison, M Ail</td>
<td>Associate Professor, Education; M.Ed., Utah State University</td>
</tr>
<tr>
<td>Ison, M Ail</td>
<td>Professor, Psychology; Ph.D., University of Oregon</td>
</tr>
</tbody>
</table>

Assistant Department; Professor, Teacher Education; Director, Reading Education Center; Professor, Biology; Ph.D., University of California Berkeley; Assistant University Librarian; Professor, Library Science; M.L.S., University of California Berkeley; Associate Professor, English; Coordinator, Composition, English Department; Ph.D., University of Missouri Columbia; Associate Professor, Finance; Ph.D., University of Arizona; Professor, Teacher Education; Director, Reading Education Center; Ph.D., Syracuse University; Associate Professor, Teacher Education; Ph.D., Florida State University; Professor, Teacher Education; Ph.D., University of Utah; Professor, Biology; Ph.D., University of California Berkeley; Assistant Professor, Teacher Education; Director, Bilingual Education; Coordinator, Foreign Languages; Ed.D., Texas A & I University; Professor, Biology; Ph.D., Oregon State University; Assistant Professor, Construction Management; M.A., Stanford University; Instructor, Agricultural Equipment; Associate Professor, Decision Sciences; Head Coach, Golf; Ph.D., University of Oregon; Associate Professor, Finance; Ph.D., University of Utah; Associate Professor, Finance; Ph.D., University of Oregon; Associate Professor, Accounting; D.B.A., Michigan State University; Instructor, Machine Shop; Certificate, Mergenthaler Linotype Co; Associate Professor, Management; Ph.D., Case Western Reserve University; Standard Instructor, Child Care; B.A., College of Wooster; Assistant Professor, Mathematics; Ph.D., University of Colorado; Assistant Professor, Mathematics; Ph.D., Washington State University; Associate Professor, Mathematics; Ph.D., University of Colorado; Professor, Decision Sciences; Ph.D., University of Utah; Assistant Professor, English; Ph.D., Northern Illinois University; Assistant Professor, Library Science; M.L.S., University of Washington; Assistant Professor, English; M.A., University of Washington; Associate Professor, Engineering; M.S.E.E., Montana State University; Standard Instructor, Hvy-Duty Mechanics (Diesel); Director, Educational Media Services; Assistant Professor, Teacher Education; M.Ed., Utah State University; Assistant Professor, Teacher Education; Ed.D., University of Southern California; Associate University Librarian; Professor, Library Science; M.L.S., University of California Berkeley; Associate Professor, Philosophy; Ph.D., Syracuse University; Assistant Professor, Accounting; Ph.D., Georgia State University; Dean, College of Education; Professor, Education; Ed.D., University of Nebraska Lincoln; Associate Professor, Mathematics; Ph.D., Brown University; Professor, Analytical Chemistry; Ph.D., Washington State University; Professor, Teacher Education; Chairperson, Teacher Education Department; Ed.D., University of Idaho; Assistant Professor, Art; M.A., Boise State University; Associate Executive Vice President; Dean, Graduate College; Professor, Geology; Ph.D., University of Idaho; Assistant Professor, Art; M.A., Boise State University; Associate Professor, Criminal Justice Administration; M.Ed., University of Arizona; Associate Professor, Music; M.A., Iowa State University; Instructor, Respiratory Therapy; Clinical Coordinator, Respiratory Therapy; Assoc, Boise State University; Professor, Music; Ph.D., New York University; Professor, Social Work; M.S.W., University of Kansas; Professor, Art; M.F.A., University of Idaho; Professor, Mathematics; Ph.D., University of California Riverside; Dean, Admissions; Associate Professor, Education; Ph.D., Arizona State University; Assistant Professor, Mathematics; Ph.D., University of California San Diego; Head Librarian, Govt Publications Dept, Library; Associate Professor, Library Science; M.L.S., Emporia State University; Instructional Product Development Spec, Educational Media Services; Assistant Professor, Education; M.Ed., Utah State University; Advanced Instructor, Dental Assisting; Program Head, Dental Assisting; Certificate, State University of New York; Associate Professor, Education; M.Ed., Utah State University; Professor, Psychology; Ph.D., University of Oregon.
Faculty

J

Jacoby, Edward G (1983)  Assistant Professor, Decision Sciences; Ph.D., University of Kansas

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

LaBella, William L (1980)  Assistant Professor, Teacher Education; Ph.D., Texas A & I University

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

LaCava, Gerald (1982)  Associate Professor, Marketing; M.S., Kansas State University

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

LaMell, Daniel G (1970)  Associate Professor, Math; M.Ed., Boise State University

LaMort, Ellis W (1968)  Professor, Teacher Education; Ph.D., University of Oregon

Lamb, Daniel G (1970)  Associate Professor, Marketing; Chairperson, Mkting & Admin Services; Ph.D., Virginia Poly Inst & State University

LaPera, John (1977)  Associate Professor, Economics; Ph.D., University of Colorado

Lamont, Robert (1976)  Professor, Teacher Education; Ed.D., Texas Christian University

Lapointe, Donald (1970)  Associate Professor, English; M.A., New York University

LaPrairie, William (1978)  Associate Professor, Political Science; M.A., University of Notre Dame

Larson, Edward G (1982)  Professor, Teacher Education; Ph.D., University of Oregon

Larin, Marc L (1976)  Assistant Professor, Teacher Education; M.A., University of Colorado

Lazarte, William (1977)  Associate Professor, Teacher Education; M.Ed., Cranbrook Academy

Leahy, Richard (1977)  Professor, English; Ph.D., University of California Davis

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

Lichtenstein, Peter M (1975)  Professor, Economics; Ph.D., University of Colorado

Lingenfelter, Jean (1973)  Senior Instructor, Child Care; Chairperson, Service Occupations Department;

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

Long, Elaine M (1975)  Associate Professor, Nutrition; 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

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

M

MacInnis, Dorothy (1962)  Senior Instructor, Dental Assisting; Certificate, University of North Carolina

Madden, Terry Jo (1983)  Reference Librarian, Reference Dept, Library; Instructor, Library Science; M.L., University of Washington

Maguire, James (1970)  Associate Professor, English; Ph.D., Indiana University

Maki, Allan E (1981)  Instructor, Horticulture; B.S.A., University of Idaho

Maloof, Giles (1968)  Professor, Mathematics; Ph.D., Oregon State University

Mansfield, Darwin W (1970)  Professor, Admin Services; Ed.D., Brigham Young University

Martin, Carol A (1972)  Professor, English; Ph.D., Catholic University of America

Mason, Jon L (1983)  Assistant Professor, Construction Management; M.B.A., Univ of Santa Clara

Matjeka, Anne L (1977)  Reference Librarian, Reference Dept, Library; Assistant Professor, Library Science; M.L., State University of New York Albany

Matjeka, 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, Information Science; Chairperson, Info Sci, Decision Sci, & Finance; D.B.A., Texas Tech University

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

McCloskey, Richard (1976)  Associate Professor, Biology; Ph.D., Iowa State University

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

McGrath, Neill Brian (1983)  Assistant Professor, Economics; Ph.D., Brown University
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>McGuire, Sherry</td>
<td>Assistant Professor, English; M.A., Washington State University</td>
</tr>
<tr>
<td>McKe, Gerald</td>
<td>Instructor, Electrical Linemanperson; Certificate, Idaho Power Co</td>
</tr>
<tr>
<td>McEskie, C Ed Jr</td>
<td>Associate Professor, Communication; Ph.D., University of Iowa</td>
</tr>
<tr>
<td>Mech, William P</td>
<td>Professor, Mathematics; Director, Honors Program; Ph.D., University of Illinois</td>
</tr>
<tr>
<td>Medlin, John J</td>
<td>Associate Professor, Accounting; M.B.A., University of Denver</td>
</tr>
<tr>
<td>Mercer, Gary D</td>
<td>Professor, Inorganic Chemistry; Ph.D., Cornell University</td>
</tr>
<tr>
<td>Merz, Michael</td>
<td>Professor, Accounting; D.B.A., University of Southern California</td>
</tr>
<tr>
<td>Metzger, Wanda M</td>
<td>Advanced Instructor, Office Occupancies;</td>
</tr>
<tr>
<td>Meyer, Carroll J</td>
<td>Professor, Music; M.A., University of Iowa</td>
</tr>
<tr>
<td>Mikesell, Charles</td>
<td>Advanced Instructor, Auto Mechanics;</td>
</tr>
<tr>
<td>Miller, Beverly A</td>
<td>Reference Librarian, Rlfcce Dept/Interlibrary Loan, Library; Associate Professor, Library Science; M.A., University of Denver</td>
</tr>
<tr>
<td>Miller, Merlin</td>
<td>Assistant Professor, Art; M.F.A., Brigham Young University</td>
</tr>
<tr>
<td>Millier, Jerold R</td>
<td>Assistant Professor, Accounting; M.A., University of Arizona</td>
</tr>
<tr>
<td>Moncrief, Gary D</td>
<td>Professor, Political Science; Ph.D., University of Kentucky</td>
</tr>
<tr>
<td>Munk, Bruce F</td>
<td>Assistant Professor, Radiologic Sciences; M.Ed., College of Idaho</td>
</tr>
<tr>
<td>Munns, Kenneth L</td>
<td>Associate Professor, Teacher Education; Ed.D., University of Idaho</td>
</tr>
<tr>
<td>Murray, Robert</td>
<td>Associate Professor, Physical Education; Ph.D., Ohio State University</td>
</tr>
</tbody>
</table>

| Nelson, Anne M        | Associate Professor, Education; Counseling Psychologist, Counseling & Testing Center; Ph.D., University of Oregon |
| Newby, Gary R         | Professor, Physics; Ph.D., Arizona State University                          |
| Nickerson, Ross S     | Assistant Professor, English; M.A., University of Utah                        |
| Nix, David E          | Associate Professor, Accounting; Ph.D., Oklahoma State University             |
| Norman, Perich J      | Professor, Arts; Executive Director, Morrison Center; M.A., University of Northern Colorado |

| Oakes, Donald R       | Associate Professor, Music; Associate Chairperson, Music Department; M.M., Northwestern University |
| Ochi, Frederic D      | Associate Professor, Art; M.F.A., University of California Los Angeles        |
| Odahl, Charles M      | Associate Professor, History; Ph.D., University of California San Diego        |
| Oliver, Mamie         | Associate Professor, Social Work; Ph.D., Washington State University           |
| Olson, Thomas         | Standard Instructor, Applied Mathematics; B.S.Ed., University of Idaho          |
| Oly, Lee Robert       | Assistant Professor, Radiologic Sciences; M.Ed., Bowling Green State University |
| Orlaza, David L       | Associate Professor, Art; M.F.A., University of Wisconsin                     |
| Ostrander, Gloria     | Head Librarian, Monographs Dept, Library; Acquisitions Librarian; Associate Professor, Library Science; M.I.S., University of Washington |
| Ourada, Patricia      | Professor, History; Ph.D., University of Oklahoma                            |
| Overgard, Willard     | Professor, Political Science; Chairperson, Political Science & Philosophy Dept; Ph.D., University of Minnesota |
| Oyler, Neldon D       | Instructor, Horticulture; B.S., Brigham Young University                      |

| Panitch, Arnold       | Associate Professor, Social Work; M.S.W., Wayne State University              |
| Papenfuss, Herbert    | Professor, Biology; Ph.D., Colorado State University                         |
| Papinchak, Robert     | Assistant Professor, English; Ph.D., University of Wisconsin Madison          |
| Parke, Charles R      | Instructor, Auto Body; Certificate, Idaho State University                   |
| Park, Ben L           | Associate Professor, Communication; Ph.D., Southern Illinois University        |
| Parks, Donald J       | Professor, Engineering; Ph.D., University of Minnesota                        |
| Pavesic, Max G        | Professor, Anthropology; Ph.D., University of Colorado                        |
| Park, Richard D       | Professor, Economics; Ph.D., University of Southern California                |
| Pearson, Theol        | Associate Professor, Teacher Education; Ph.D., University of California San Francisco |
| Peck, Louis A         | Professor, Art; Chairperson, Art Department; Ed.D., University of Idaho       |
| Peek, Margaret        | Associate Professor, English; Associate Dean, College of Arts & Sciences; Ph.D., University of Nebraska |
| Pelton, John R        | Associate Professor, Geology, Geophysics; Ph.D., University of Utah            |
| Penner, June R        | Associate Professor, Nursing; M.P.H., University of California Berkeley       |
| Peterson, Ellis R     | Professor, Physical Chemistry; Ph.D., Washington State University            |
| Peterson, Faith Y     | Instructor, Nursing; M.P.A., Boise State University                          |
| Pfeiffer, Ronald      | Associate Professor, Physical Education; M.S., University of Oregon           |
| Phillips, Charles     | Professor, Management; Ph.D., University of Iowa                             |
| Phillips, John L      | Professor, Psychology; Chairperson, Psychology Department; Ph.D., University of Utah |
| Pitman, C Harvey      | Associate Professor, Communication; M.Ed., Washington State University         |
| Place, Patrick        | Instructor, Wastewater Treatment;                                              |
| Poshek, Neila         | Professor, Nursing; Chairperson, Nursing Department; Director, Baccalaureate Degree Nursing; D.Ed., University of Tulsa |
| Profit, Rex E         | Assistant Professor, Radiologic Sciences; Chairperson, Radiologic Sciences; B.S., Central Michigan University |
| Quinowski, C D        | Vocational Counselor, Vocational Counseling; Instructor; B.S.Ed., Southern Oregon State College |

| Rayborn, David W      | 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

Ribner, Andrew ....................................... (1980)
Librarian, Catalog & Serials Dept, Library; Assistant Professor, Library Science; M.S.L., University of California Berkeley

Riffe, Lyndon .................................... (1984)
Assistant Professor, Marketing; M.B.A., University of Missouri

Rinnert, Carol ........................................ (1977)
Assistant Professor, English; Ph.D., State University of New York Buffalo

Roberts, George F .................................. (1970)
Professor, Art; M.F.A., University of Arizona

Robertson, John B .................................. (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

Russell, James K .................................. (1969)
Associate Professor, Art; M.F.A., University of Iowa

Ryche, Asa 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

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)
Assistant Professor, Political Science; Ph.D., University of Nebraska

Sambal, Michael ......................................... (1976)
Associate Professor, Music; M.M., North Texas State University

Sanderson, Richard ................................... (1971)
Assistant Professor, English; Ph.D., New York 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

Schroeder, Gerald .................................. (1978)
Associate Professor, Music; D.M.A., University of Colorado

Schroeder, Jeff D ..................................... (1976)
Instructor, Small Engine Repair; Asst, Boise State University

Scudder, Ruston R .................................. (1964)
Professor, Marketing; Ed.D., Oregon State University

Seddon, Carol ........................................ (1978)
Associate Professor, Medical Records; Coordinator, Medical Records, M.S., Oregon State University

Selander, Glenn F .................................. (1966)
Assistant Professor, English; M.A., Utah State University

Sheaffer, William .................................. (1956)
Professor, Theatre Arts; Ph.D., University of Denver

Shelton, Melvin L .................................. (1969)
Professor, Music; M.M., University of Idaho

Shin, Bong ........................................... (1979)
Associate Professor, Management; Chairperson, Management Department; Ph.D., University of Georgia

Shin, Tim S ........................................... (1983)
Assistant Professor, History; Ph.D., University of California Berkeley

Shotliff, Cheryl ...................................... (1978)
Assistant Professor, Art; M.A., Boise State University

Sims, Robert C ...................................... (1970)
Professor, History; Ph.D., University of Colorado

Sinha, 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

Skirmants, Alexandra ................................ (1970)
Assistant Professor, English; M.A., University of California Davis

Smith, Thomas ......................................... (1971)
Professor, English; M.F.A., University of Utah State University

Smith, Donald D .................................... (1976)
Professor, Psychology; Ed.D., University of Southern California

Smith, William S .................................. (1973)
Professor, Physics; Ph.D., University of Wisconsin

Snow, Mark E ........................................ (1971)
Professor, Psychology; Ph.D., University of Utah

Spalding, Stephen .................................. (1972)
Associate Dean, Admissions; Instructor, Political Science; M.A., University of Oregon

Speake, Constance .................................. (1981)
Associate Professor, Music; M.M.E., 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

Stark, Frank W ........................................ (1957)
Professor, Chemistry, Physical Science; M.S., Trinity College

Steiger, Harold L .................................. (1972)
Associate Professor, Psychology; Ph.D., University of Kentucky

Stitt, Thomas ........................................ (1975)
Dean, College of Business; Professor, Management, Finance; Ph.D., University of Oregon

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

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)
Vice President, Student Affairs; Professor, Psychology; Ph.D., Michigan State University

Taylor, Patricia .................................. (1975)
Associate Professor, Nursing; M.Ed., College of Idaho

Taylor, Ronald S .................................. (1975)
Assistant Professor, Art; M.F.A., Utah State University

Thomas, Karen S .................................. (1981)
Assistant Professor, English; M.A., University of Idaho State University

Thomas, George .................................. (1975)
Assistant Professor, Music; M.A., Boise State University
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thorngren, Connie</td>
<td>Assistant Professor, Physical Education; M.Ed., Central Washington University</td>
</tr>
<tr>
<td>Tillman, Charles</td>
<td>Associate Instructor, Hvy-Duty Mechanics (Diesel); Chairperson, Mechanical Technology; Diploma, University of Idaho</td>
</tr>
<tr>
<td>Tompkins, James W.</td>
<td>Assistant Professor, Industrial Communications; B.D., Th.B., Westminster Theological Seminary</td>
</tr>
<tr>
<td>Towle, Mary Ann</td>
<td>Advanced Instructor, Practical Nursing; B.S., University of Idaho</td>
</tr>
<tr>
<td>Trapp, Mary E</td>
<td>Associate Professor, Communication; Ph.D., University of Iowa</td>
</tr>
<tr>
<td>Traynowicz, Laurel</td>
<td>Assistant Professor, Communication; M.A., University of Iowa</td>
</tr>
<tr>
<td>Trusky, A Thomas</td>
<td>Associate Professor, English; M.A., Northwestern University</td>
</tr>
<tr>
<td>Tubbs, Stewart</td>
<td>Associate Dean, College of Business; Professor, Management; Ph.D., University of Kansas</td>
</tr>
<tr>
<td>Tucker, Walter</td>
<td>Advanced Instructor, Air Conditioning; Certificate, Idaho State University</td>
</tr>
<tr>
<td>Vahey, JoAnn T</td>
<td>Professor, Nursing; Associate Dean, College of Health Science; Ed.D., Columbia University</td>
</tr>
<tr>
<td>Valverde, Luis J</td>
<td>Professor, Foreign Languages; Ed.D., University of California Los Angeles</td>
</tr>
<tr>
<td>Vaughn, Ross E</td>
<td>Associate Professor, Physical Education; Ph.D., Washington State University</td>
</tr>
<tr>
<td>Vinz, Warren L</td>
<td>Professor, History; Chairperson, History Department; Ph.D., University of Utah</td>
</tr>
<tr>
<td>Waag, Charles J</td>
<td>Associate Professor, Geology; Ph.D., University of Arizona</td>
</tr>
<tr>
<td>Wade, Mildred R</td>
<td>Associate Professor, Nursing; Director, Associate Degree Nursing; M.S.N., University of Colorado</td>
</tr>
<tr>
<td>Waite, Wenien W</td>
<td>Professor, Teacher Education; Ph.D., Utah State University</td>
</tr>
<tr>
<td>Waldorf, Larry L</td>
<td>Associate Professor, Management; Ph.D., Colorado State University</td>
</tr>
<tr>
<td>Wallace, Steve R</td>
<td>Assistant Professor, Physical Education; M.S., University of Utah</td>
</tr>
<tr>
<td>Walsh, Anthony</td>
<td>Assistant Professor, Criminal Justice Administration; Ph.D., Bowling Green State University</td>
</tr>
<tr>
<td>Warberg, William</td>
<td>Associate Professor, Admin Services; Director, Internships/Cooperative Education; Ed.D., Oregon State University</td>
</tr>
<tr>
<td>Ward, Frederick</td>
<td>Professor, Mathematics; Ph.D., Virginia Poly Inst &amp; State University</td>
</tr>
<tr>
<td>Warner, Kathleen C</td>
<td>Assistant Professor, English; Ph.D., Indiana University</td>
</tr>
<tr>
<td>Watia, Tarmo</td>
<td>Associate Professor, Art; M.F.A., University of Michigan</td>
</tr>
<tr>
<td>Watts, Donald J</td>
<td>Senior Instructor, Drafting; B.S.C.E., University of Idaho</td>
</tr>
<tr>
<td>Wertman, Donald L</td>
<td>Senior Instructor, Machine Shop; Asso, Pennsylvania State University</td>
</tr>
<tr>
<td>Weston, Allen</td>
<td>Senior Instructor, Drafting; Chairperson, Light Technology; M.Ed., Idaho State University</td>
</tr>
<tr>
<td>White, Craig</td>
<td>Assistant Professor, Geology, Geophysics; Ph.D., University of Oregon</td>
</tr>
<tr>
<td>White, Wayne E</td>
<td>Professor, Management; Director, Aviation Management; M.A., Arizona State University</td>
</tr>
<tr>
<td>Wicklow-Howard, Marcia</td>
<td>Professor, Biology; Associate Chairperson, Biology Department; Ph.D., Colorado State University</td>
</tr>
<tr>
<td>Widmayer, Jayne A</td>
<td>Associate Professor, English; Ph.D., University of Michigan</td>
</tr>
<tr>
<td>Wilcox, Marguerite</td>
<td>Associate Professor, Nursing; M.N., University of California Los Angeles</td>
</tr>
<tr>
<td>Wilkinson, Edwin E</td>
<td>Dean, Student Special Services; Associate Professor, Psychology; M.S., Washington State University</td>
</tr>
<tr>
<td>Willhite, Carol C</td>
<td>Professor, Nursing; Ph.D., Brigham Young University</td>
</tr>
<tr>
<td>Williamson, Marge</td>
<td>Associate Professor, Office Occupations; Secretary, Faculty Senate; M.B.(Ed.), University of Idaho</td>
</tr>
<tr>
<td>Wink, Lonnie</td>
<td>Professor, English; Ph.D., University of Colorado</td>
</tr>
<tr>
<td>Wilson, Monte D</td>
<td>Professor, Geology; Ph.D., University of Idaho</td>
</tr>
<tr>
<td>Wilterding, Jim</td>
<td>Professor, Management; D.B.A., Texas Tech University</td>
</tr>
<tr>
<td>Wines, William A</td>
<td>Associate Professor, Management; J.D., University of Michigan</td>
</tr>
<tr>
<td>Wise, Lowell C</td>
<td>Instructor, Nursing; B.S., Boise State University</td>
</tr>
<tr>
<td>Wojtkowski, W Gregory</td>
<td>Assistant Professor, Information Science; Decision Sciences; Ph.D., Case Western Reserve University</td>
</tr>
<tr>
<td>Wood, Spencer H</td>
<td>Associate Professor, Geology, Geophysics; Ph.D., California Institute of Technology</td>
</tr>
<tr>
<td>Wyllie, Gilbert A</td>
<td>Associate Professor, Biology; Ph.D., Purdue University</td>
</tr>
<tr>
<td>Young, Jerry</td>
<td>Professor, Mathematics; Ed.D., University of Northern Colorado</td>
</tr>
<tr>
<td>Young, Mike</td>
<td>Head Coach, Mens Wrestling; Assistant Professor, Physical Education; M.A., Brigham Young University</td>
</tr>
<tr>
<td>Young, Virgil M</td>
<td>Professor, Teacher Education; Ed.D., University of Idaho</td>
</tr>
<tr>
<td>Yunker, Douglas</td>
<td>Associate Professor, Social Work; Chairperson, Social Work Department, M.A., Indiana University</td>
</tr>
<tr>
<td>Zirinsky, Hendrikje</td>
<td>Associate Professor, English; Ph.D., University of North Carolina</td>
</tr>
<tr>
<td>Zirinsky, Michael</td>
<td>Associate Professor, History; Ph.D., University of North Carolina Chapel Hill</td>
</tr>
</tbody>
</table>
Emeriti

Faculty

DOROTHY ALBERTSON, Professor of Office Administration (1953-1977)

THELMA F. ALLISON, Associate Professor of Home Economics (1946-1973)

JOHN B. BARNES, President (1967-1977)


C. GRIFFITH BRATT, Professor of Music, Composer in Residence (1946-1976)

WILLIAM S. BRONSON, Professor of Psychology (1954-1970)

JAMES R. BUCHANNAN, Assistant Professor of Welding (1959-1978)

CLARA P. BURTCH, Associate Professor of Teacher Education and Library Science (1969-1978)

WILLIAM J. CARSON, Associate Professor of Accounting (1963-1982)

EUGÈNE B. CHAFFEE, President (1932-1967)

ACEL H. CHATBURN, Professor of Education (1944-1977)

R. WAYNE CHATTERTON, Professor of English (1968-1983)

ROBERT deNEUFVILLE, Professor of Foreign Language (1949-1973)

JAMES G. DOSS, Assistant Dean, College of Business (1970-1984)

CLLGY T. EDLEFSEN, Professor of Business (1939-1969)

J. CALVIN EMERSON, Associate Professor of Chemistry (1933-1940, 1960-1973)

EVELYN EVERTS, Associate Professor, Reference Librarian (1957-1977)

MARJORIE FAIRCHILD, Associate Professor of Library Science (1966-1975)

MILTON FLESHMAN, Associate Professor of Auto Mechanics (1959-1974)

ALBERT FUEHRER, Instructor in Auto Mechanics (1965-1978)

JOHN F. HAGER, Associate Professor of Machine Shop (1954-1969)

CLATTON W. HAHN, Associate Professor of Engineering (1948-1952, 1963-1981)

ALICE H. HATTON, Registrar (1959-1974)

KENNETH L. HILL, Associate Professor of Education (1962-1970)

HELEN R. JOHNSON, Associate Professor of Business Education and Office Administration (1955-1978)

LEO E. JONES, Professor of Biology (1972-1981)

DORIS KELLY, Associate Professor of Nursing (1958-1977)

NOEL KRICBAUM, Assistant Professor of Vocational-Technical Education (1955-1975)

MAX LAMBORN, Instructor in Parts Counterman (1972-1981)

JOHN C. LEIGH, Jr., Instructor in Drafting (1971-1983)

RUTH A. MARKS, Professor of Teacher Education and Library Science (1970-1982)

ADELAIDE ANDERSON MARSHALL, Assistant Professor of Music (1939-1948, 1966-1972)

RUTH McIBIRNEY, Professor, Head Librarian (1940-1942, 1943-1977)

FLORENCE M. MILES, Professor of Nursing (1955-1980)

KATHRYN ECKHARDT MITCHELL, Assistant Professor of Violin (1932-1938, 1939-1972)

DONALD J. O'GEE, Professor of Biology (1946-1977)


Hazel Mary Roe, Associate Professor of Office Administration (1942-1944, 1947-1969)

FRANK H. SMARTT, Assistant Professor of Mathematics (1956-1981)

DONALD D. SMITH, Professor, Psychology (1967-1984)

LYLE SMITH, Professor of Physical Education, Director of Athletics (1946-1981)

JOSEPH B. SPULNIK, Professor of Chemistry, Dean of the School of Arts and Sciences (1941-1976)

ROBERT B. SYLVESTER, Associate Professor of History (1963-1982)

ALBERT H. TENNYSON, Instructor of Industrial Communications (1966-1977)

CARL W. Tipton, Associate Professor of Management (1965-1980)

DAVID P. TORBET, Professor of Psychology, Director of Counseling and Testing Center (1966-1983)

LYLE F. TRAPP, Assistant Professor of Auto Body (1953-1967)

G.W. UNDERKOFLER, Associate Professor of Accounting (1952-1974)

EUNICE WALLACE, Associate Professor of English (1968-1978)

GERALD R. WALLACE, Professor Education, Dean of the School of Education (1968-1978)

MONT M. WARNER, Professor, Geology (1967-1984)

JOHN E. WARWICK, Associate Professor of Communication (1963-1977)

THOMAS M. WILBANKS, Assistant Professor of English (1964-1966, 1969-1977)

PETER F. WILSON, Professor of Business Administration (1966-1977)

ELLA MAE WINANS, Associate Professor of 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)
INDEX

A

Academic Advising 18
Academic Calendar 2, 3
Accounting Courses 87
Accounting Department 86
Admin Services Courses 96
Administrative Services - Marketing Department 95
Admission to Student Teaching 107
Admission to Teacher Education 107
Admissions Information 9
Admissions - Foreign Students 11
Graduate 10
Special Undergraduate 10
Transfer Students 10
Vocational-Technical 10
Admissions, Graduate 139
Adult Basic Education 36
Agricultural Equipment Courses 165
Air Conditioning, Refrigeration, Heating Courses 160
Alumni Association 30
Anthropology Courses 79
Anthropology-Social Science Minor 77
Anthropology, Sociology, CJA Department 76
Apprenticeship 169
Architecture - See Pre-Architecture 41
Art Courses 41
Art Department 40
Associate of Arts Degree Program 26
Athletics 30
Auto Body Courses 165
Auto Mechanics Courses 166
Aviation Management Courses 94

B

Baccalaureate Degree Programs
Accounting 87
Admin Serv - Bus Educ 95
Administrative Services 95
Anthropology 77
Art 40
Biology 43
Biology, Secondary Education 43
Chemistry 46
Chemistry, Secondary Education Option 46
Communication 47
Communication - English Combined 48
Construction Management 70
Criminal Justice Administration 77
Earth Science Education 54
Economics 88
Economics, Soc Sci, Sec. Ed. 88
Elementary Bilingual/Multicultural 108
Engineering 69
English 50
Environmental Health 122
Finance 90
General Business 93
Geology 54
Geophysics 54
Health Science Studies 123
History 57
Information Sciences 90
Management - Aviation 93
Management - Behavioral 93
Management - Indus Relations 94
Marketing 95
Mathematics 60
Mathematics, Secondary Education Major 60
Medical Technology 132
Multi-Ethnic Studies 78
Music 64
Nursing 127
Philosophy 74
Physical Education 101
Physical Education, Secondary Education 101
Physics 69
Political Science 72
Pre-Dentistry - Biology Option 130
Pre-Dentistry - Chemistry Option 131
Pre-Medicine - Biology Option 130
Pre-Medicine - Chemistry Option 131
Pre-VeterINARY Medicine 131
Production Management 91
Psychology 105
Psychology, SS, Secondary Education 105
Quantitative Management 91
Real Estate
Respiratory Therapy 136
Social Science 78
Social Work 75
Sociology 78
Theatre Arts 81
Baccalaureate Degree Requirements 24-26
Bilingual Teacher Training Program 36, 108
Biological Sciences 44
Biological Department 43
Board and Room Charges 15
Botany Courses 45
Business Educ Courses 97
Business Machine Technology Courses 162
C

Calendar, Academic 2
Campus In Spain 35
Canadian Studies 34
Candidacy 141
Career Planning and Placement 30
Certification Requirements and Endorsements for Secondary Education 112
Certification Requirements for Elementary Education 112
Challenges 21, 140
Chemistry Courses 47
Chemistry Department 45
Child Care Courses 167
Child Care Service 31
Colleges
Arts and Sciences 39
Business 85
Education 99
Graduate 139
Health Science 121
Communication Courses 49
Communication Department 47
Community and Environmental Health Department 122
Computer Science Courses 61
Construction Management Courses 71
Construction Management, Physics, Engineering Department 69
Consultation Services 36
Correspondence Study 15
Consulting & Test Services 13
Counseling & Test Center 31
Counseling & Test Services 99
Course Load Limits 141
Course Numbering System 22, 141
Criminal Justice Administration Courses 80
Criminal Justice Administration, Sociology, Anthropology Department 76
Culinary Arts Courses 168
Cultural Opportunities 30

D

Data Processing Center 36
Decision Science Courses 91
Decision/Info Sciences Dept 90
Degree codes 27
Dental Assisting Courses 158
Disabled Students 31
Drafting Technology Courses 162
E

Economics Courses 89
Economics Department 88
Education, Graduate Programs 146
Educational Media Services 36
Educational Talent Search 36
Electrical Lineworker Courses 160
Electronic Technology Courses 163
Electronics Service Technology Courses 164
English Employees 178
Engineering Courses 71
Engineering, Physics, Construction Management Department 69
English Courses 52, 113
English Department 50
English Minor for Theatre Arts 51
Environmental Health Courses 124
Environmental Health Department 122

F

Faculty, Name List 171
Fees and Tuition 11
Final Examination Requirements 141
Finance, Info/Decis Sci Dept 90
Financial Aid 12-14
Financial Aid for Foreign Students 14
Financial Aid Programs 13
Guaranteed Student Loan 13
NDSL 13
Non-Resident Waivers 13
Pell Grants 13
Scholarships 13
SEOG, SSIG 13
Short Term Loans 13
Student Employment 13
Work Study (CWSP) 13
Financial Aid Progression Rate 14
Financial Aid Time Limits 14
Foreign Language Courses 115
Foreign Language Requirements 108
Forestry Courses 45
Fraternities 16
French Courses 115
G

GED Preparation 169
GED Training 36
General Business Courses 94
General Science Courses 37
Geography Courses 56
Geology Courses 55, 157
Geology/Geophysics Department 54
Geophysics Courses 57
German Courses 115
Grad Credit Requests 140
Grad Degree Application 141
Grad Repeat, Retakes 140
Graduate Classifications 140
Graduate Courses for Undergraduate Credit 140
Graduate Credit for Seniors 140
Graduate Faculty 139
Graduate Programs 139
Graduate Scholarship Requirements 140
Greek Courses 116
H

Health Occupations Department 158
Health Science Courses 124
Health, PE & Recreation Department 100
Heavy Duty Mechanics - Diesel Courses 166
Heavy Technologies Department 160
High School Equivalency 169
High School Equivalency Program (HEP) 36
History Courses 58, 153
History Department 57
Honors Program 33
Horticulture 168
Housing Applications, Contracts 15
Humanities Courses 53

Industrial Mechanics
Courses 160

Info/Decision Sciences Dept 90
Insurance Coverage 12
Interdisciplinary Courses, 134
International Students 30

Library Science & Teacher Education Department 106
Library Science Courses 116
Light Technologies Department 162
Linguistics Courses 53

Machine Shop Courses 161
Majors/Degrees 27
Management Courses 94
Management Department (Academic) 93
Marketing - Administrative Services Department 95
Marketing Courses 97
Marketing-Mid-Mgmt Courses 97
Masters Degree Programs Business Administration 144
Curriculum and Instruction 146
Early Childhood 146
Graduate Programs, College of Education 146
Masters In Education (MA/MS) 146
Public Administration 142
Reading 147
Special Education 147
Mathematics Courses 61, 153
Mathematics Department 60
MBA Elective Courses 145
MBA Required Courses 145
Mechanical Technologies Department 165
Medical Expense Insurance 33
Medical Records Courses 125
Medical Records Science Department 125
Medical Technology Courses 133
MHAFB Program 35
Military Science Courses 63
Military Science Department 62
Minor Certification Endorsements 112
Multicultural Board 31
Music Applied, courses 66
Music Courses 154
Music Department 63
Music, Ensemble Courses 67
Music, General Courses 67

National Student Exchange 35
New Student Orientation 29
Non-Baccalaureate Degree Programs
Agricultural Equipment Technology 165
Air Conditioning, Refrigeration, Heating 160
Associate Degree Nursing Program 126
Auto Body 165
Automotive Mechanics 166
Business Machine Technology 162
Child Care Studies 167
Criminal Justice Administration 79
Culinary Arts Program 167
Day Care Assistant/Supervisor 167
Dental Assistant 158
Drafting Technology 162
Electrical Lineworker 160
Electronics Service Technology 164
Electronics Technology 163
Engineering 69
Heavy Duty Mechanic—Diesel 166
Horticulture 168
Industrial Mechanics 160
Machine Shop 161
Marketing - Mid-Management 168
Marketing-Mid-Mgmt 95
Medical Records Science Program 125
Office Occupations 169
Practical Nursing 159
Pre-Architectural 41
Pre-Dental Hygiene 133
Pre-Dietetics 124
Pre-Occupational Therapy 133
Pre-Optometry 133
Pre-Pharmacy 133
Pre-Physical Therapy 134
Psychology Minor 114
Radiologic Technology Program 134
Respiratory Therapy 135
Semiconductor Technology 163
Small Engine Repair 166
Surgical Technology 159
Wastewater Technology 165
Welding 161
Nursing Courses 129
Nursing Department 126

Office Occupations Courses 169
Other Fees 12

Physical Education Courses 102
Physical Education Department 100
Physical Science Courses 71
Physics Courses 71
Physics, Engineering, Construction Management Department 69
Placement, Educational 107
Planning assistance 36
Political Science Courses 74, 143
Political Science/Philosophy Department 72
Pre-Law Curriculum 26
Predictive Examinations 140
Preprofessional preparation & Federal Employment 44
Preprofessional Studies Department 130
Program Development Form 140
Psychology Courses 105, 147
Psychology Department 104
Public Television 37

R
R.O.T.C. 35
Radiological Technology Courses 135
Radiological Sciences Department 134
Reading & Study Skills 31
Reading Education Center 107
Real Estate Courses 90
Recreation 30
Recreation, Health & PE Department 100
Refund Policy 12
Residence Requirements 140
Respiratory Therapy Courses 137
Respiratory Therapy Department 135
Rights & Responsibilities 29
Room and Board Charges 15
ROTC (Army) 35
Russian Courses 116

S
Scholarships, ROTC 63
School of Social Sciences & Public Affairs
School of Vocational Technical Education 157
Service Occupations Department 166
Serviceman's Opportunity College 35
Services, Educational 107
Small Engine Repair Courses 166
Social Work Courses 76
Social Work Department 75
Sociology Courses 80, 144
Sociology-Social Science Minor 78
Sociology, Anthropology, CJA Department 76
Sororities 16
Spanish courses 116
Speaker's Bureau 37
Special Education, Elementary 109
Special Education, Secondary 110
Special Workshop Fees 12
Student Government 30
Student Health Service 31
Student Housing 14-16
Student Organizations & Activities 30
Student Services 29-31
Student Teaching Alternatives 112
Studies Abroad 35
Summer Sessions 35
Supervisory Committee Assignment 140
Surgical Technology Courses 159

T
Teacher Education Courses 106
Teacher Education Courses 117, 147
Teacher Education Program Coordinator 199

the cold drill 39
Theatre Arts Courses 82
Theatre Arts Department 81
Thesis Requirements 141
Time Limitations 141
Trade Extension 169
Transfer of Credits 140
Tuition and Fees 11
Tutorial Assistance 31

U
University Apartments 15
University/Community Health Sciences Association, Inc. 122
Upward Bound Program 36
Use of Facilities 36

V
Veterans Services 31
Visiting Scientist Program 36
Vocational Technical School 157

W
Wastewater Technology Courses 165
Welding Courses 161
Western Writers Series 36
Wildlife Management & Preforestry 44

Z
Zoology Courses 45