PART VI

Area Vocational Technical School

DIRECTOR: GILBERT McDONALD MILLER

OBJECTIVES

FACULTY

ADMISSION REQUIREMENTS

VOCATIONAL TWO-YEAR PROGRAMS

TECHNICAL TWO-YEAR PROGRAMS

DISTRIBUTIVE EDUCATION TWO-YEAR PROGRAMS

ONE-YEAR VOCATIONAL-TECHNICAL PROGRAMS
DIRECTOR, Gilbert McDonald Miller

Vocational Counselor: Callies
Adult Basic Education: Showmaker
Auto Body: Mr. Curtis
Auto Mechanics: Fleshman, Fuerher, Haydon
Computer Programming: Severance
Dental Assisting: MacInnis
Drafting Technology: Van Liew, Weston, Watts
Electronics: Cofield, Sieber, LaRue
Horticulture: Oyler
Machine Shop: Baggerly, Qualman
Mid-Management: Knowlton, Lemmon, Scudder
Office Machine Repair: Harris, Millard
Practical Nursing: Chaffee, Flaherty
Related Instruction: Kriegbaum, Tennyson, Tompkins
Welding: Buchanan, Ogden

Objectives of Vocational Education:
To provide the opportunity for state and local citizens to acquire the education necessary:
(a) To become employed, to succeed, and to progress in a vocational-technical field.
(b) To meet the present and anticipated needs of the local, state, and national economy for vocational-technical employees.
(c) To become contributing members of the social, civic and industrial community.

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

Admission Requirements:
Application materials may be obtained from the Director of Admissions Office, Boise State College.
(a) Application for Admission: Fill out an Application for Admission Form. Once completed, the application should be returned to the Admission's Office.
(b) Educational background: Request a transcript of High School credits and, if applicable, a transcript of College credits be sent by the institution(s) directly to the Director of Admissions.
(c) Reference: A minimum of one reference must be submitted by school authorities, employers, or interested persons. No relatives accepted.
(d) Aptitude Test: Contact the nearest local office of the Department of Employment or Youth Opportunity Center and request a General Aptitude Test Battery to be taken for the Vocational-Technical Division of Boise State College. Request that the office send the results to the local office of the Department of Employment, or directly to the Vocational-Technical Division, Boise State College, Boise, Idaho 83707.
(e) Photos: Two (2) copies of recent photos of yourself—billfold size (2"x3") on the back of which please sign your name.
(f) Physical Examination: Report from your local physician on college form supplied with the application materials.
(g) Personal Interview: Upon furnishing the above data, a notice will be sent to you to arrange for a personal interview.
(h) High school graduation is recommended but is not required to enter a vocational or technical program, provided one has been out of high school one complete semester.
HO HORTICULTURE SERVICE TECHNICIAN — CURRICULUM
(Landscape Construction and Maintenance)

The landscape construction and maintenance curriculum has for its objective the preparation of students for employment in the landscape, nursery and florist industries. This includes both the production, sales and service areas of these major fields. The training stresses the design of landscapes, their interpretation and construction including costs, but the production of nursery plants, plant propagation, the design of landscapes, and landscape planting is also covered. Graduates of the horticulture curriculum qualify for positions in nursery and floral establishments as well as in parks, grounds and highway departments. They may also enter the fields associated with plant propagation, nursery sales, greenhouse work and sales in the related fertilizer and insecticide fields. Credits in this course of study are not counted towards an academic degree.

Freshman Year:

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<th>Subject</th>
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<td>HO 101-102</td>
<td>Horticulture Laboratory</td>
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<td>Communication Skills</td>
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<td>HO 131-132</td>
<td>Related Basic Mathematics</td>
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Sophomore Year:

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<td>HO 271</td>
<td>Individual Project</td>
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<td>MM 213</td>
<td>Credits and Collections</td>
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<td>MM 101</td>
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HO HORTICULTURE SERVICE TECHNICIAN — Courses

101 Horticulture Laboratory
Applying the related and theory content to the solution of practical problems in horticulture. Specific areas of application to include: exploring occupational opportunities; identification of plants by the use of descriptive terms; identification of biennial and perennial flowering plants; use of scientific names; classifications and botanical structures of plants; climatic and other factors limiting growth; soils; and soil amendments. Fifteen clock hours per week.

102 Horticulture Laboratory
Applying the related and theory content to the solution of practical problems in horticulture. Specific areas of application include methods of plant propagation; construction of growing containers and houses; arrangement and implementation of entire greenhouse operation; the use of insecticides, pesticides, etc. and precautions necessary during use. Prerequisite: Horticulture Laboratory HO-101.

111-112 Communication Skills
This course is designed to develop the student's communication skill in observing, listening and reading, with emphasis on study methods, memory and concentration work, vocabulary improvement, and a review of basic English and spelling. Second semester—to develop communication skill in speaking and writing with emphasis on conversational speaking, clarity and brevity in letter, report, and technical writing. Three clock hours per week.
131-132 Related Basic Mathematics 3 credits
First semester—developing comprehension of the basic principles of mathematics. Specific areas include: addition, subtraction, multiplication, division, fractions, percentage, denominate numbers, square root, mensuration. Second semester—developing comprehension of the principles of related bookkeeping and accounting. Specific areas to be covered to include: income and expense accounts, general journal and ledger, sales and purchases, inventories, pay-roll income taxes, etc. Three clock hours per week.

141-142 Related Basic Science 2 credits
First semester—developing comprehension of the scientific principles utilized in: (1) plant identification, (2) plant growth and development, (3) limiting factors, (4) soils. Second semester—developing comprehension of the scientific principles utilized in: developments which aid plant propagation, construction materials, insecticides, pesticides. Two clock hours per week.

151-152 Horticulture 5 credits
First semester—developing comprehension, analysis, and evaluation of the following: (1) introduction into the field of horticulture, (2) plant classifications and growth, (3) climate and other growth limiting factors, (4) soil and soil amendments. Second semester—developing comprehension, analysis, and evaluation of the following: plant propagation (sexual); growing containers; insect and disease control. Seven clock hours per week.

201 Horticulture Laboratory 5 credits
Applying the related and theory content to the solution of practical problems in horticulture. Specific areas of application include preparing of landscape drawings, making concrete, block, brick, stone, and wood structures, growing greenhouse crops, welding structures, and basic first aid. 15 clock hours per week.

202 Horticulture Laboratory 5 credits
Applying the related and theory content to the solution of practical problems in horticulture. Specific areas of application include maintenance and operation of power equipment, establishment and maintenance of lawns, shrubs and trees, prevention and treatment of plant wounds. 15 clock hours per week.

241 Related Science 2 credits
Developing comprehension of the scientific principles utilized in: (1) plant growing and; (2) materials of construction.

242 Related Science 2 credits
Developing comprehension of the scientific principles utilized in: (1) power equipment; (2) lawn and shrub maintenance; and (3) plant wounds.

251 Horticulture Theory 5 credits
Developing comprehension, analysis, and evaluation of the following: (1) various types of construction common to plant growing, i.e. greenhouses, cold frames, hot beds, lath houses, propagators, germinators, etc.; (2) materials of construction, i.e. concrete, mortar, block, brick, stone, wood, etc.; (3) greenhouse crops; (4) first aid. Seven clock hours per week.

252 Horticulture Theory 5 credits
Developing comprehension, analysis and evaluation of the following: (1) power machines as used in horticulture i.e. mowers, tillers, saws, shredders, aerifiers, sod cutters, pesticide applications, etc.; (2) turf, shrub, and tree management procedure; (3) prevention and treatment of plant wounds. Seven clock hours per week.

262 Industrial Psychology 2 credits
This course is designed to develop those human relationship skills the student will need at work. Relationship situations of office and shop are simulated, enacted, discussed, and solved practically through group interaction. Understanding of self and others is sought. Career planning and techniques necessary to obtain employment are stressed.

271 Individual Project 3 credits
Providing the opportunity for the student to apply all his prior education in planning, developing and completing a unique, practical horticultural project.
The course and outline in Office Machine Repair have 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. He will be qualified to make maintenance contract inspections, make proper mechanical adjustments and do general shop work. He will also be in a position to receive on-the-job training by his employer to become a highly specialized mechanic.

Students desiring fundamental preparation for entering the electronic calculator repair field should take courses indicated in the curriculum shown below. This is a two-year course and credits are not counted toward an academic degree.

**Freshman Year:**

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<th>Subject</th>
<th>Course No. and Title</th>
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<th>Spring</th>
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<tr>
<td>OM-101-102</td>
<td>Office Machine Repair Laboratory</td>
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<td>OM-151-152</td>
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**Sophomore Year:**

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<td>OM-201-202</td>
<td>Advanced Office Machine Repair Laboratory</td>
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<td>OM-231-232</td>
<td>Related Advanced Mathematics</td>
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<td>OM-241-242</td>
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<td>OM-243-244</td>
<td>Advanced Related Electronics</td>
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<td>OM-251-252</td>
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<td>MM-101</td>
<td>Retail Selling</td>
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<tr>
<td>OM-101-102</td>
<td>Office Machine Repair Laboratory</td>
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First semester—The student is issued standard typewriters to be completely disassembled and reassembled. All adjustments are taught as well as the proper use of hand tools. Instructions are given on the process of chemical cleaning, oiling and refinishing of platen; preparing work orders and other clerical work required of a repairman. Second semester—The student is issued electric typewriters to be completely disassembled and reassembled. All adjustments are taught regarding the electric features of the machine. Special emphasis is placed on maintenance and cleaning of electric motors and the wiring schematic of the machine. The use of power tools and shop equipment is taught during this semester. 15 clock hours per week.

111-112 Communication Skills

This course is designed to develop the student's communication skill in observing, listening and reading, with emphasis on study methods, memory and concentration work, vocabulary improvement, and a review of basic English and spelling. Second semester—to develop communication skill in speaking, and writing with emphasis on conversational speaking, clarity and brevity in letter, report, and technical writing. Three clock hours per week.

* Required by students electing the Electronic Calculating Machine Repair Option.
131-132 Related Basic Mathematics 3-3 credits
First semester—Basic review of ordinary business arithmetic problems including addition, multiplication, division, fractions, decimals, square areas and volumes. Second semester—Advanced business arithmetic problems including mixed numbers, positive and negative numbers, percentages, and related geometry. Three clock hours per week.

141-142 Related Basic Science 2-2 credits
First semester—The course is intended to develop the student’s knowledge of basic related principles and includes the study of force, weight, friction, motion, power, energy and simple machines. Second semester—the student gains a knowledge of heat, electricity and its uses, magnetism, resistance and controls. Special instructions are given on safety precautions in the use of electricity. Four clock hours per week.

143-144 Related Electronics 2-2 credits

151-152 Related Basic Theory 3-3 credits
Study of mechanical theory of each machine being taught. Regulation factory manuals for office machines are used and the student is taught to read and understand the machancial drawings, as well as the printed descriptions accompanying them. Five clock hours per week.

201-202 Office Machine Repair Laboratory 5-5 credits
First semester—The student is issued adding machines to be completely disassembled and reassembled. All adjustments are taught as well as the use of special adding machine tools. Refinishing outside cases and the application of special paints is taught during this semester. Second semester—Each student is issued a calculating machine to be completely disassembled and reassembled. All adjustments are taught. An introduction is given to the numerous machanical methods used in machine calculations covering basic principles. Fifteen clock hours per week. Prerequisite: Office Machine Repair Laboratory OM-102.

231-232 Related Advanced Mathematics 3-3 credits
First semester—Special emphasis is placed on analyzing machine errors on the printed tape and associating them with faulty or maladjusted parts. Calculating machine operations are studied. All basic business problems are taught as well as short-cut methods for figuring interest, percentages, discounts, fractions, and other special problems. Second semester—Fundamentals of bookkeeping. Three clock hours per week. Prerequisite: Related Basic Mathematics OM-132.

241-242 Related Advanced Science 3-2 credits
First semester—Study of electric motors, resistors, capacitors, chokes, and simple electronic schematics. Second semester—Study of vacuum tubes, transformers, relays and amplifiers. Five clock hours per week first semester and four clock hours per week. Prerequisite: Related Basic Science OM-142.

243-244 Advanced Related Electronics 3-2 credits
First semester—A continuation of 143 and 144. Introduction to vacuum tubes and transistors. Qualitative testing of transistors. Transistor amplifier circuits. Logic circuits using transistors (flip flop gates). Five clock hours per week. Second semester—Memory systems using transistors and ferrite cores, digital adder circuits, registers, digital processing circuits (shift registers) encoder and decoder circuits. Prerequisite: OM-143-144. Four clock hours per week.
251-252  Related Advanced Theory  3-3 credits
First semester—Study of mechanical theory of each machine being taught. Regulation factory manuals for adding machines are used. Special emphasis is placed on the mechanical principles which cause the adding machine to add, subtract, repeat, non-add and non-print, carry-over and credit balance. Second semester—Regulation factory manuals for calculating machines are used. The numerous mechanical methods of machine calculations are studied during this semester with special emphasis being placed on positive and negative multiplications, positive and negative division, automatic multiplication, accumulation, squaring and short-cut methods. Five clock hours per week each semester. Prerequisite: Related Basic Theory OM-152.

262  Industrial Psychology  2 credits
This course is designed to develop those human relationship skills the student will need at work. Relationship situations of office and shop are simulated, enacted, discussed, and solved practically through group interaction. Understanding of self and others is sought. Career planning and techniques necessary to obtain employment are stressed.

W  WELDING — CURRICULUM
The welding curriculum is designed to provide two levels of training. The first year will provide the student with useable skills and should qualify him for employment as a production welder. Some students may desire to terminate their training at this point. The second year of the program will provide advanced training in layout and a better understanding of the properties of metals as well as advanced techniques and processes that are in demand in industry. The course of study may be altered to keep abreast of new welding procedures and advancements in industry.

Freshman Year:

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<th>Course No. and Title</th>
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<tr>
<td>W 101-102 Welding Lab</td>
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<td>W 111  Communication Skills</td>
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<td>W 131-132 Related Basic Math</td>
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W  WELDING — Courses

101-102  Welding Laboratory—8 credits
This course covers oxyacetylene burning by manual and automatic methods; oxyacetylene welding and brazing; arc welding using mild steel and low alloy steel electrodes in all positions; continuous wire feed welding processes; and submerged arc welding processes. The successful completion of this phase of the program will prepare the student for employment as a production welder or to take the second year of the program. Twenty clock hours per week each semester.

131-132  Related Basic Mathematics—3 credits
Basic review of addition, subtraction, multiplication and division of fractions, decimals and mixed numbers with application to basic blueprint reading, layout problems, framing square and weld symbols.

151-152  Welding Theory—2 credits
This course provides the knowledge necessary for the welding student to understand the welding processes and their appreciation as practiced in the laboratory course. Safety is emphasized in all phases of instruction. The set-up, care and maintenance of oxyacetylene equipment as well as the theory of oxyacetylene burning, welding and brazing is studied. Arc welding
equipment and methods are studied with the selection of electrodes for welding of mild and low alloy steels. Continuance feed and submerged arc welding processes are covered. Four hours per week both semesters.

201-202 Advanced Welding Laboratory
Pipe welding in the horizontal and vertical fixed positions. Heliarc and semi-automatic inert gas welding of similar and dissimilar metals and exotic metals. Stress relieving and heat treatment of metals. Twenty clock hours per week each semester. Prerequisite: Welding Laboratory W-102.

231-232 Related Advanced Mathematics—3 credits
Blueprint reading, layout and design, fitting layout and details. Basic Algebra, Geometry, blueprint reading, layout and design. Three clock hours per week each semester. Prerequisite: Related Basic Mathematics W-132.

241-242 Welding Science—4 credits
First semester—Study of the basic metallurgy properties of metals and tests to determine their uses; the iron carbon diagram and the part carbon plays in the production of steel. Second semester—Study of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code and procedures. Operators qualifications, heat treatment of steels, classification of steels, testing and inspection of welds.

TECHNICAL
Two Year Programs

DT DRAFTING TECHNOLOGY — CURRICULUM

This curriculum is organized to provide engineering departments, government agencies, consulting engineers and architectural firms with a technician well-trained in the necessary basic skills and knowledge of drafting. The student is required to develop and maintain the same standards and techniques used in firms or agencies that employ draftsmen. Credits in this course of study are not counted toward an academic degree. Drafting Technology curriculum is open to both male and female students.

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<td>DT-121 Slide Rule</td>
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<td>DT-122 Surveying of Measurements</td>
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<td>DT-131-132 Mathematics</td>
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<td>DT-141-142 Applied Physics</td>
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<td>DT-221 Descriptive Geometry and Developments</td>
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<td>DT-252 Introduction to Computer Programming</td>
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<td>DT-261 Special Projects and Reports</td>
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DT DRAFTING TECHNOLOGY — Courses

101-102 Drafting Laboratory and Lecture 4-4 credits
Fall semester—A period of orientation. Instruction in drafting room procedures, care and use of tools and special instruments. Supervision in the special techniques of producing finished detail and assembly drawings from notes and sketches. Emphasis on good lettering, line technique, and freehand sketching. Spring semester—A continuation of DT-101 with special emphasis placed on machine, architectural, piping, electrical, and structural drafting and design. Fifteen clock hours per week each semester; five hours Lecture and ten hours Laboratory.

111-112 Communication Skills 3-3 credits
This course is designed to develop five forms of communication skill: observing, listening, reading, writing and speaking. Memory and study improvement, word analysis, spelling and technical vocabulary are stressed during the first semester. Grammatical and logical forms, public and conversational speaking, business, report and technical writing are stressed during the second semester. Three clock hours per week each semester.

121 Slide Rule 1 credit
Fall semester—Sufficient mathematical proficiency; multiplication and division with application, proportion, principle, squares, square roots, cubes, cube roots and combined operations. Two clock hours per week.

122 Surveying and Measurements 3 credits
Spring semester—Beginning course designed for students with little or no training in surveying. It combines lectures, laboratory and field work in theory methods, equipment and problems involved in surveying and measurements and their application. Four clock hours per week. Prerequisite: DT-131.

131-132 Mathematics 3-3 credits
Fall semester—Fundamentals of basic mathematics, algebraic computations, practical plans and solid geometry and their application to problems likely to be encountered by the draftsman. Spring semester—Basic trigonometric functions, right triangles, oblique triangles and vectors. The course is closely integrated with the topics studied in science and drafting. Prerequisite: DT-131. Four clock hours per week.

141-142 Drafting and Design Applied Physics 3-3 credits
Fall semester—A general survey of physics with emphasis placed on principles of mechanics applied to solid particles and to fluids. Spring semester—Course in the basic principles of heat, sound, light electricity and magnetism, correlated with technical mathematics DD-132. Four clock hours per week. Prerequisite: DT-141.

151 Design Orientation 2 credits
Fall semester—A lecture-laboratory course designed to provide an opportunity for the student to apply theory, principles and methods to the solution of problems typical of those to be encountered in practice. Two clock hours per week.

201-202 Advanced Drafting Laboratory and Lecture 4-4 credits
Advanced techniques in drafting, problems on design level in the various fields served by Drafting and Design Technicians. Fifteen clock hours per week. Five hours lecture and ten hours laboratory. Prerequisite: Drafting Lab and Lecture, DT-102, or consent of the instructor.

221 Descriptive Geometry and Development 2 credits
Theory and practice of co-ordinate projection applied to the solution of properties of points, lines, planes and solids, with practical engineering application. Two clock hours per week.

222 Technical Report Writing 2 credits
A course to provide an understanding and practice in the processes involved in technical writing and methods of preparing reports based on problems related to the student's curriculum. Two clock hours per week.
231-232 Advanced Mathematics .................................................. 3-3 credits
Advanced algebra, trigonometry and analytical geometry and introduction to calculus with emphasis on their application in design situations. Four clock hours per week each semester. Prerequisite: DT-132 Mathematics or consent of instructor.

241-242 Science ........................................................................... 3-3 credits
Fall semester—An introduction to Dynamics which deals with the motion of rigid bodies and with the forces that produce or change their motion. Spring semester—Includes strength and properties of material and basic chemistry. Four clock hours per week each semester. Prerequisite: DT-142 Science or consent of the instructor.

251 Manufacturing Processes ..................................................... 2 credits
An introductory course to provide training and practice in using precision measuring instruments, tools, and accessories used in modern quality production and inspection. Instruction in the selection and use of machine tools, related equipment, and production methods. Three clock hours per week.

252 Introduction to Computer Programming ................................ 2 credits
This course is designed to give students the general concepts of problem-oriented computer language, including flow charting, coding, and the writing of FORTRAN IV programs. The Boise State College computer facility will be used with the course. Three clock hours per week.

261 Special Projects and Reports .................................................. 2 credits
A general survey of the industrial community and the problems, advances and future developments as pertaining to the drafting technician. The application of the draftsman’s ability to analyze and solve problems particular to their chosen field of emphasis. Two clock hours per week.

262 Industrial Psychology ........................................................... 2 credits
Methods of understanding self and others. Solution of interpersonal problems in business and industry. Techniques necessary to obtain employment. Responsibilities of the American worker. Two clock hours per week.

ET ELECTRONICS — CURRICULUM

The Electronics curriculum consists of two main courses of study:
First, the Electronics Technology program provides training for students desiring to enter the field of Electronics, working as team members with engineers in research and development.
Second, the Electronics Maintenance program provides training in practical servicing of electrical and electronic devices. Students may enter such areas as Radio-TV, Broadcast, or Industrial Service.

Credits in these courses of study are not counted toward an academic degree. The Electronics curricula is open to both men and women students.

Freshman Year:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course No. and Title</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ET-101-102 Electronics Laboratory and Lecture</td>
<td>7</td>
<td>7</td>
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<tr>
<td></td>
<td>ET-111-112 Communication Skills</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ET-131-132 Basic Electronics Math</td>
<td>4</td>
<td>4</td>
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<tr>
<td></td>
<td>ET-141-142 Electronics Science</td>
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<td>2</td>
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|         | Total                                               | 16   | 16     |

Sophomore Year:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course No. and Title</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
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<tr>
<td></td>
<td>ET-201-202 Advanced Electronics Laboratory</td>
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<tr>
<td></td>
<td>ET-231-232 Advanced Electronics Math</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ET-241-242 Advanced Electronics Science</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ET-251-252 Advanced Electronics Theory</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ET-262 Industrial Psychology</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

|         | Total                                               | 16   | 16     |
ET  ELECTRONICS – Courses

101 Electronics Laboratory and Lecture  7 credits
Study of basic electricity, color code, test equipment, L.C.R. components, basic vacuum tubes and transistors. Logic circuits as applied to data handling equipment. Ten hours lecture and ten hours laboratory per week.

102 Electronics Laboratory and Lecture  7 credits
A continuation of ET-101, Thevenin's and Norton's equivalents, basic radio receiver and transmitter analysis, and basic transistors, printed circuit design and processing. Prerequisite: Electronics Laboratory and Lecture ET-101. Ten hours of lecture and ten hours laboratory.

111-112 Communication Skills  3-3 credits
This course is designed to develop five forms of communication skill: observing, listening, reading, writing and speaking. Memory and study improvement, word analysis, spelling and technical vocabulary are stressed during the first semester. Grammatical and logical forms, public and conversational speaking, business, report and technical writing are stressed during the second semester. Three clock hours per week.

131-132 Basic Electronics Mathematics  4-4 credits
First semester—Review of basic fundamentals of mathematics, slide rule, algebra, geometry, and basic trigonometry. Second semester—A continuation of first semester, logarithms, slide rule, and an introduction to analytical geometry. Five clock hours per week.

141-142 Electronics Science  2-2 credits
Designed to instruct the student in practice of drawing schematics, develop good electrical engineering lettering techniques, and understanding symbols, dimensions and designs. Second semester deals with engineering graphs, and printed circuit design. Two clock hours per week.

201-202 Advanced Electronics Laboratory  5-5 credits
First semester—Consists of practice on F.M. and T.V. receivers, scopes, pulse network, alignment of T.V. and F.M. circuits, pulse, differentiating and integrating circuits, antenna and transmission lines. Second semester—Industrial electronics, computers, transistors, and a continuation of first semester studies. Prerequisite: Electronics Laboratory and Lecture ET-102. Fifteen clock hours per week.

231-232 Advanced Electronics Mathematics  3-3 credits
The student will be concerned with advanced trigonometry, analytical geometry, and introduction to calculus. Prerequisite: Basic Electronics Mathematics ET-132. Five clock hours per week.

241-242 Advanced Electronics Science  4-4 credits
Basic physics as it applies to the electronic technician's needs. This course deals with mechanics, heat, sound, and light. Prerequisite: Electronics Science ET-142. Five clock hours per week.

251-252 Advanced Electronics Theory  2-4 credits
Fall semester—Covers the fundamentals, of broadband amplifiers, pulse network and techniques, pickup devices, deflection circuits, synchronization circuits A.M. and F.M. and T.V. equipment. Spring semester—Covers the theory and design of computers, thyratrons, transistors, servo and synchro principles. Three clock hours per week Fall and Five clock hours per week Spring.

262 Industrial Psychology  2 credits
This course is designed to develop those human relationship skills the student will need at work. Relationship situations of office and shop are simulated, enacted, discussed, and solved practically through group interaction. Understanding of self and others is sought. Career planning and techniques necessary to obtain employment are stressed.
## MM Fashion Merchandising—Mid-Management

### Curriculum

**Freshman Year:**

<table>
<thead>
<tr>
<th>Course</th>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>English Composition</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Introduction to Business</td>
<td>3</td>
<td>-</td>
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<tr>
<td>Retail Selling</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Clothing</td>
<td>3</td>
<td>-</td>
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<tr>
<td>Business Mathematics/Machines</td>
<td>4</td>
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<tr>
<td>Clothing Selection</td>
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<td>2</td>
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<tr>
<td>Textiles</td>
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<td>3</td>
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<tr>
<td>Elements of Management</td>
<td>-</td>
<td>3</td>
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<tr>
<td>Principles of Advertising</td>
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<td>3</td>
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<tr>
<td>Mid-Management Work Experience</td>
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<tr>
<td>Physical Education Activities</td>
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<td>1</td>
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**Sophomore Year:**

<table>
<thead>
<tr>
<th>Course</th>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>Introduction to Marketing</td>
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<tr>
<td>Costume Design</td>
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<td>-</td>
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<tr>
<td>Professional Speech Communication</td>
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<td>-</td>
</tr>
<tr>
<td>Retail Buying</td>
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<td>-</td>
</tr>
<tr>
<td>Report Writing</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Mid-Management Work Experience</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Principles of Retailing</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Accounting</td>
<td>-</td>
<td>3</td>
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<tr>
<td>Business Psychology</td>
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<tr>
<td>Supervision of Personnel</td>
<td>-</td>
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<td>Elective</td>
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<td></td>
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## MM Marketing—Mid-Management—Curriculum

### Curriculum

**Freshman Year:**

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<thead>
<tr>
<th>Course</th>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>English Composition</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Introduction to Business</td>
<td>3</td>
<td>-</td>
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<tr>
<td>Business Mathematics/Machines</td>
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<td>Retail Selling</td>
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<td>-</td>
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<tr>
<td>Principles of Advertising</td>
<td>-</td>
<td>3</td>
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<tr>
<td>Merchandise Analysis</td>
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<td>3</td>
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<tr>
<td>Mid-Management Work Experience</td>
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<td>2</td>
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<tr>
<td>Elements of Management</td>
<td>3</td>
<td>-</td>
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<tr>
<td>Professional Speech Communication</td>
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<td>-</td>
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<tr>
<td>Physical Education Activities</td>
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Sophomore Year:

<table>
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<tr>
<th>Course Offerings</th>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>Introduction to Marketing</td>
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<td></td>
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<tr>
<td>Principles of Retailing</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Economics</td>
<td>3</td>
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<tr>
<td>Business Psychology</td>
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<tr>
<td>Report Writing</td>
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<td></td>
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<td>Supervision of Personnel</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Retail Buying</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Credit and Collections</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Mid-Management Work Experience</td>
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<td>2</td>
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<tr>
<td>Elective</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>16</strong></td>
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**MM MARKETING, MID-MANAGEMENT — Courses**

Course offerings are described on pages 133-134.

**VOCATIONAL**

**One Year Programs**

**AB AUTO BODY — CURRICULUM**

**11 Month Program**

The Auto Body curriculum is designed to provide the student with the background necessary for employment in a shop repairing damaged automobiles. Basic laboratory practices of restoring vehicles to their original design, structure and finish are covered in this course. Some basic glasswork and frame alignment work are also covered. The student is given the opportunity to work on a variety of repair jobs in the shop, and to spend time in the parts and tool room. This training provides students with the necessary skills and knowledge for employment in the Auto Body Trade and closely allied crafts. Credits in this course of study are not counted toward an academic degree.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course No. and Title</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tbody>
<tr>
<td>AB-121-122-123 Auto Body Laboratory</td>
<td>10</td>
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<td>AB-141-142-143 Auto Body Theory</td>
<td>7</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>AB-262 Industrial Psychology</td>
<td>2</td>
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<td><strong>Total</strong></td>
<td><strong>17</strong></td>
<td><strong>17</strong></td>
<td><strong>12</strong></td>
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</table>

**AB AUTO BODY — Courses**

121-122-123 Auto Body Laboratory

The purpose of these courses is to develop and give practice in the skills needed by an auto body repairman. Subjects covered include the following: orientation, safety rules, shop house-keeping, oxy-acetelene welding, painting fundamentals, metal working and shrinking, plastic and lead body filling, advanced painting processes, frame alignment, glass and panel replacement. 25 hours laboratory per week.

141-142-143 Auto Body Theory

This course correlates with the auto body laboratory course. The theory of auto body repair and painting is covered. Mathematics and science necessary for and related to the trade are taught. 10 hours lecture summer and fall, 8 hours lecture spring per week.

262 Industrial Psychology

This course is designed to develop those human relationship skills the students will need at work. Relationship situations of office and shop are simulated, enacted, discussed, and solved practically through group interaction. Understanding of self and others is sought. Career planning and techniques necessary to obtain employment are stressed.
AM AUTO MECHANICS CURRICULUM
11 Month Program

The modern developments in our enormous automotive industry demand the employment of highly skilled mechanics and well-trained in maintenance and repair techniques. This course provides the basic background and experience necessary for employment in the automotive mechanics field and allied vocations. Credit in this course of study are not counted toward an academic degree.

Subject
Course No. and Title Fall Credits
AM-101-102-103 Automotive Laboratory 10 10 7
AM-151-152-153 Automotive Theory 7 5 5
AM-262 Industrial Psychology 2

17 17 12

AM AUTO MECHANICS — Courses

101 - 102 - 103 Automotive Laboratory 10-10-7 Credits
The student first studies the function and repair of components of the automobile, which is followed by the study of automotive systems through the use of mock ups including cars partially cut away for easy access. Live work will be performed on automobiles during the spring semester. Shop safety, cleanliness, and management is covered. 25 hours laboratory per week.

151 - 152 - 153 Automotive Theory 7-5-5 Credits
This course correlates with the automotive laboratory course. The theory of the design, construction, maintenance, and repair of the entire automobile and all of its components and systems are studied in detail. Necessary mathematics and science related to the automotive trade are covered. 10 hours lecture summer and fall, 8 hours lecture spring per week.

262 Industrial Psychology 2 Credits
This course is designed to develop those human relationship skills the student will need at work. Relationship situations of office and shop are simulated, enacted, discussed, and solved practically through group interaction. Understanding of self and others is sought. Career planning and techniques necessary to obtain employment are stressed.

CP COMPUTER PROGRAMMER TRAINEE CURRICULUM
9 Month Program

This curriculum is a program of study and experience in Computer Programming. The graduate of this program of study will be eligible for employment. In such a job, the graduate works under immediate supervision and employment as a Computer Programmer Trainee in business, industry, or government, training situation, develops and writes programs in symbolic language for electronic computer processing. He or she learns to design flow charts and diagrams indicating mathematical computations and the sequence of machine operations.

Entrance Requirements: High school diploma or equivalency certificate, (to include one year of high school level mathematics), acceptable grades on the A.C.T. Test or G.A.T.B., personal interview and aptitude testing.

Credits
Course No. and Title Fall Spring
CP 103 Fundamentals of Computer Programming 3 —
CP 107 Computer Programming Lab 1 —
CP 111-112 Communication Skills 3 3
CP 123 Introduction to Data Processing 3 —
CP 131-132 Math for Data Processing 3 3
CP 142 Computer Programming—RPG — 3
CP 152 Computer Programming—COBOL — 3
CP 162 Computer Programming—FORTRAN IV — 3
CP 262 Industrial Psychology 2 —

15 15
CP  COMPUTER PROGRAMMING — Courses

103  Fundamentals of Computer Programming  3 credits
This course prepares the student for the study of business programming languages. Topics covered are: number systems, computer logic, computer hardware, computer software, introduction to programming languages, data processing systems and programming applications.

107  Computer Programming Laboratory  1 credit
This course gives the student experience with some of the equipment encountered by programmers. The student will learn to operate and to wire boards for selected unit record equipment.

111-112  Communications Skills  3 credits
This course is designed to develop the students communication skill in observing, listening and reading, with emphasis on conversational speaking, clarity and brevity in letter, report and technical writing. Three clock hours per week.

123  Introduction to Data Processing  3 credits
A study of the function of data processing in the business world. The subject will be developed by applying data processing methods to such accounting functions as accounts receivable, inventory, and payroll.

131-132  Mathematics for Data Processing  3 credits
The subject matter presented in this course will be applied in computer programming and will include basic algebra, number systems, logarithms, linear equations, Boolean algebra and logic.

142  Computer Programming—RPG  3 credits
The student will write specifications for jobs which may use card, tape, or disk output files using the Report Program Generator Programming System.

152  Computer Programming—COBOL  3 credits
The student will compose complete COBOL programs working from system and program flowcharts. This will include the writing of the Identification Division, Environment Division, Data Division, and Procedure Division of COBOL.
He may use card, tape, or disk input files and may produce printed reports, punched cards, tape files, or disk files as output.

162  Computer Programming—FORTRAN IV  3 credits
The student will learn to express, in FORTRAN, algebraic statements containing arithmetic functions and exponentiation, problem logic and input/output record descriptions.

262  Industrial Psychology  2 credits
This course is designed to develop those human relationship skills the student will need at work. Relationship situations of office and shop are simulated, enacted, discussed, and solved practically through group interaction. Understanding of self and others is sought. Career planning and techniques necessary to obtain employment are stressed.

DA  DENTAL ASSISTANT CURRICULUM

9 Month Program

The Dental Assisting Program consists of Dental Assistant Theory, Dental Laboratory instruction and Clinical Experience. Boise State College 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, acceptable grades on the G.A.T.B., personal interview and aptitude testing. The dental assistant courses are taught by dentists and a dental assistant instructor.

This is an accredited program by the Council of Dental Education and the American Dental Assistant Association. Students are eligible to take the Certification Examination upon completion of the course.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course No. and Title</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-101-102</td>
<td>Dental Laboratory</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>DA-106</td>
<td>Dental Assisting Clinical Experience</td>
<td>—</td>
<td>3</td>
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<tr>
<td>DA-108</td>
<td>Dental Office Management</td>
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<tr>
<td>DA-109</td>
<td>Public Health and Dental Hygiene</td>
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<tr>
<td>DA-111-112</td>
<td>Communication Skills</td>
<td>3</td>
<td>3</td>
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<tr>
<td>DA-151-152</td>
<td>Dental Theory</td>
<td>4</td>
<td>3</td>
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<tr>
<td>DA-262</td>
<td>Industrial Psychology</td>
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<tr>
<td>SP-111</td>
<td>Fundamentals of Speech</td>
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<tr>
<td>PE-105</td>
<td>First Aid (Elective)</td>
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<table>
<thead>
<tr>
<th>DA DENTAL ASSISTING — Courses</th>
</tr>
</thead>
</table>

**101-102 Dental Laboratory**

This course consists of practical laboratory training in manipulation of dental materials, instrumentation, sterilizing and care, pouring and trimming study models, custom trays, investing and casting, use of equipment and safety, and exposing and processing dental X-rays. Taken concurrently with DA 151-152. Fourteen clock hours per fall semester. Six clock hours spring semester.

**106 Dental Assisting Clinical Experience**

Supervised chairside assisting experience in the private dental offices and hospital dental clinics. Sixteen clock hours per week.

**108 Dental Office Management**

The fundamentals of business practices as related to dentistry including bookkeeping, appointment control, supply control, business correspondence, as well as credit and collection procedures. Two clock hours per week.

**109 Public Health and Dental Hygiene**

This course deals with phases of health in which the student can aid in conserving the general and dental health of herself, her family and the community. It is concerned with such subjects as Federal and State Health Departments, preventive dentistry, communicable disease, degenerative disease, diet and nutrition, mental health and general health information. Two clock hours per week.

**111-112 Communication Skills**

This course is designed to develop five forms of communication skills: observing, listening, reading, writing and speaking. Memory and study improvement, word analysis, spelling and technical vocabulary are stressed during the first semester. Grammatical and logical forms, public and conversational speaking, business, report and technical writing are stressed during the second semester. Three clock hours per week.

**151-152 Dental Theory**

Comprehensive introduction to basic theory relating to dental assisting. The course includes lecture time in ethics, professional relationships, patient education, dental anatomy, terminology, charting, related sciences, and dental specialty fields. Taken concurrently with DA 101-102. Seven clock hours per week fall semester, six clock hours per week spring semester.
262 Industrial Psychology 2 Credits
An analysis of human types and behavior of concern to the student and problems peculiar to dentistry; securing a position, dealing with child and adult patients, engaging in business and in service capacity, managing an office, and developing the professional image of the dental assistant. Selected problem situations are simulated, enacted, discussed and solved practically through group interaction. Two clock hours per week.

**MS MACHINE SHOP CURRICULUM**

**11 Month Program**
The machinist’s craft is basic to all of America’s manufacturing industry. Machinists must interpret engineering drawings in producing machines needed by industry. Becoming a good machinist can lead to becoming tool and die makers. This course will provide the basic skills needed by the student. A large machine shop furnishes the tools and machines required. Learning and gaining experience is necessary to get started in the machinist trade. Related instruction in mathematics, science and work with blueprints is included in the course of study. Credits in this course of study are not counted toward an academic degree.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course No. and Title</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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</thead>
<tbody>
<tr>
<td>MS - 121 - 122 - 123</td>
<td>Machine Shop Lab</td>
<td>10</td>
<td>10</td>
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<tr>
<td>MS - 151 - 152 - 153</td>
<td>Machine Shop Theory</td>
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<tr>
<td>MS - 262</td>
<td>Industrial Psychology</td>
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<thead>
<tr>
<th>Subject</th>
<th>Credits</th>
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<tbody>
<tr>
<td>17</td>
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</tr>
</tbody>
</table>

**MS MACHINE SHOP — Courses**

**121 - 122 - 123 Machine Shop Laboratory** 10-10-7 Credits
This course includes the principles and operation of basic machine tools including lathes, milling machines, planers, shapers, drill presses, surface grinders and tool and curve grinders. Bench work, set ups, fundamental welding, heat treating, and shop safety is also taught. Development of skills in setting up and operation of machine tools is of primary importance. 25 hours laboratory per week.

**151 - 152 - 153 Machine Shop Theory** 7-5-5 Credits
This course is meant to teach the theoretical aspects of machining processes. Properties of materials and alloys are studied along with the use of coolants, lubricants, and cutting oils are studied. Fundamental mathematics including machinist related geometry and trigonometry as well as scientific principles required in the machinist trade are included. Blueprint reading and sketching is also studied. 10 hours lecture summer and fall, 8 hours lecture spring per week.

262 Industrial Psychology 2 Credits
This course is designed to develop those human relationship skills the student will need at work. Relationship situations of office and shop are simulated, enacted, discussed, and solved practically through group interaction. Understanding of self and others is sought. Career planning and techniques necessary to obtain employment are stressed.

**PN *PRACTICAL NURSING PROGRAM**

**12 Month Program**
The practical nursing program, in cooperation with three hospitals, a nursing home, the Idaho State School and Hospital and the State Board for Vocational Education, is approximately one calendar year in length and consists of daily hospital nursing experiences and classroom instruction. A diploma is awarded upon graduation from the course. Students are then eligible to take the state licensing examination, which, if passed, qualifies them as Licensed Practical Nurses.

*Conforms to the minimum standards as set up by the U.S. Dept. of Labor, Bureau of Apprenticeship.*
*Admission:

Entrance requirements: High school graduation or passing the General Educational Development Test. Satisfactory scores on the General Aptitude Test Battery and the P.A.C.E., which are given by the Department of Employment and Boise State College respectively. A complete medical and dental examination is required. The Practical Nursing Advisory Committee recommends to the director candidates for the program after a personal interview. They also recommend dismissal of students not performing in a satisfactory manner.

Classroom work includes instruction in the needs of humans in health and in sickness, with emphasis on the practical nurses' part in meeting these needs.

Clinical experience consists of supervised hospital nursing experience in caring for patients with medically and surgically treated conditions, caring for sick children, new mothers and infants. Students are taken on field trips to specific health agencies in the community.

**W BASIC WELDING — CURRICULUM**

**9 Month Program**

The welding curriculum is designed to provide two levels of training. The first year will provide the student with useable skills and should qualify him for employment as a production welder. Some students may desire to terminate their training at this point. The second year of the program will provide advanced training in layout and a better understanding of the properties of metals as well as advanced techniques and processes that are in demand in industry. The course of study may be altered to keep abreast of new welding procedures and advancements in industry.

**Freshman Year:**

<table>
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<tr>
<th>Course No. and Title</th>
<th>Credits</th>
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<td>Fall</td>
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<tr>
<td>W 101-102 Welding Lab</td>
<td>8</td>
</tr>
<tr>
<td>W 111 Communication Skills</td>
<td>3</td>
</tr>
<tr>
<td>W 131-132 Related Basic Math</td>
<td>3</td>
</tr>
<tr>
<td>W 151-152 Welding Theory</td>
<td>2</td>
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<tr>
<td>W 262 Industrial Psychology</td>
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<td>16</td>
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**W BASIC WELDING — Courses**

Basic Welding courses are described under Vocational Two Year Programs. See page 165.

**EMPLOYMENT ORIENTATION**

Employment Orientation is a joint effort under the direction of the Boise Local Office of the State Department of Employment and the Vocational Technical Division of Boise State College. This program is funded through the Manpower Development and Training Act.

It is for adults and youths residing in the Boise area. The people who are referred to this program lack the basic knowledge and skills necessary for employment or referral to training for a career.

The general objective of this project is to provide the trainees communication skills and employment orientation necessary to bring them up to an educational achievement level where they may be competitive for further training or entry into current or estimated future labor markets of the area.

*Contact Director of Vocational Technical Division, Boise State College, Boise, Idaho 83707, for further information and application forms.*
The course work is taught on an individual basis. Therefore, trainees may be referred into the class or achieve their goals at any time. The ultimate objective of each trainee is for stability and successful entrance into a meaningful occupation. The duration of an individual’s training time is twenty weeks, but may be extended. Eight hours per day are expected to be spent in training, six hours of which are spent in formal classroom situation.

Admission requirements: must be referred by the Boise Local Office of the Department of Employment.

**VOCATIONAL TRAINING CENTER**

Boise State College in cooperation with the State Board for Vocational Education, Department of Employment, and the Idaho State Penitentiary is conducting a pilot Manpower Development and Training Act correctional institutional training program. Programs offered are: Chef Training, Appliance Repair, and Farm Equipment Operators.

Food preparation and service is an important phase of Chef Training as is sanitation, food buying, planning of menus, utilization of storage, and record keeping.

The Appliance Repair Course includes a study of basic electricity, servicing of each of the electric and gas appliances. Related mathematics and English provide the students with the necessary skill and knowledge to communicate with customers, employers, and the public. Salesmanship and human relations round out the training schedule.

Farm Equipment Operators are given instruction in preventative maintenance, servicing, and operation of all the equipment required to successfully do farming functions. Welding, mechanics, and over-all repair and trouble shooting is a requisite of farm operation. Knowledge of safe practices, operation, and maintenance of farm equipment is an important part of the program.

Students are given a certificate upon satisfactory completion of the program.

**PRE-VOCATIONAL TRAINING**

Pre-vocational education for vocational students or adults who have not completed high school is offered through the Vocational Technical Division. The courses include adult basic education, preparation for the high school equivalency certificate, adult guided studies, and approved high school courses in American Government, Mathematics, English, Social Studies and Natural Science. Classes are determined according to individual needs of the students. Classes are approved by the State of Idaho and for veterans qualifying under Chapter 34, Title 38, U.S.C. (Var 14255 A2).

A special guided studies program for adults has been developed to help upgrade skills, to help adults prepare for better jobs and to prepare for or further vocational training.

**PATROLMAN (Government Service)**

Under the Manpower Development Training Act this course is carried on at the Mountain Home Air Force Base. It is limited to servicemen about to be discharged. Selection of students is made by the Department of Employment.

Instruction is conducted by persons trained in police work. The basic fundamentals of police duties and functions are covered by the course.

**APPRENTICESHIP AND TRADE EXTENSION**

Through cooperative arrangements with the State Board for Vocational Education, Boise State College Vocational Technical Division sponsors a wide range of trade extension training 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 training for those workmen receiving on-the-job instruction in such vocations as Sheetmetal, Carpentry, Plumbing, Welding, Electricity, Electronics, Typing, Grocery Checking, Automotives, Nursing and Farming.

Information concerning admission requirements, costs, dates, etc., may be obtained from Boise State College Division of Vocational-Technical Education.
BOISE STATE COLLEGE

FULL-TIME FACULTY

(The date in parentheses is the time of first appointment)

ROGER H. ALLEN, Assistant Professor of Business Administration (1966)
A.A., Boise Junior College; B.S., University of Nevada; M.B.A. Northwestern University.

THELMA F. ALLISON, Associate Professor of Home Economics (1946)
B.S., (H.Ec.), Utah State Agricultural College; University of Utah, Brigham Young University; M.S. (H.Ec.Ed.), Utah State Agricultural College; Carbon College; Oregon State University; Arizona State University.

PHOEBE L. ARMSTRONG, Assistant Professor of History (1966)
B.S., M.S., Drake University.

JANE L. ATKINS, Assistant Professor of Physical Education (1967)
B.S., (M.H.P.E.R.) North Texas State University; University of Idaho.

WILLIAM A. BABCOCK, Instructor in History (1967)
B.A., M.A., University of Oregon.

STEVEN F. BAGGERLY, Instructor in Machine Shop (1968)
Diploma, Boise Junior College.

CHARLES BAKER, Assistant Professor of Biology (1968)
B.S., M.S., University of Nevada; Ph.D., Oregon State University.

RICHARD BANKS, Assistant Professor of Chemistry (1968)
B.S., College of Idaho; Ph.D., Oregon State University.

K. ANN BARNES, Educational Media Librarian (1969)
A.S., Weber State College; B.A., Brigham Young University; M.L.S., University of Washington.

WYLLA BARSNESS, Assistant professor of Psychology (1968)
A.B., William Jewell College; M.S., Montana State University; Ph.D., University of Minnesota.

JOHN A. BECKWITH, Associate Professor of English (1965)
B.A., Gooding College; M.A., University of Idaho; University of California at Los Angeles, American Institute of Gemology at Los Angeles.

H. WILLIAM BELKNAP, Assistant Professor of Biology (1959)
B.A., College of Idaho; M.S., Louisiana State University; Arizona State University; University of Oregon.

HERBERT K. BELL, JR., Assistant Professor of Accounting (1970)
J.D. University of Louisville, MBA, U.S. Air Force Institute of Technology; C.P.A.

JOHN H. BEST, Associate Professor of Music (1947)
B.S., University of Idaho; M.A., Colorado State College of Education; Cello Pupil of Elias Trustman and Joseph Wezels; Composition and Theory pupil of J. DeForest Cline and Henry Trustman Ginsburg.

CAROL JEAN BETTIS, Instructor, Assistant Reference Librarian (1970)
B.S. A.M.L.S., University of Michigan.

JOHN PATRICK BIEETER, Assistant Professor of Teacher Education and Library Science (1969)
B.A., St. Thomas College; M.A., University of California at Berkeley; Ed.D., University of Idaho.
V. DALE BLICKENSTAFF, Professor of Accounting
Chairman, Department of Accounting (1967)
B.S., McPherson College; M.S., Fort Hays State College; Ed.D., Colorado State College; Oklahoma State University.

DALE BOYER, Assistant Professor of English (1968)
B.A., University of Oregon; University of Missouri.

BILL C. BOWMAN, Associate Professor of Physical Education (1969)
B.A., Southern Idaho College of Education; M.Ed., University of Oregon; Ed.D., Brigham Young University.

JEAN BOYLES, Assistant Professor of Physical Education (1949-57; 1962; 1969)
A.B., University of California; M.S., University of Colorado.

C. GRIFFITH BRATT, Professor of Music, Composer-Artist-in-Residence (1946)
Artist's Diploma in Organ, Mus.M., Harmony Teacher's Certificate, Church Organist's Certificate, Peabody Conservatory of Music, Baltimore, M.D.; Johns Hopkins University; University of Baltimore; University of Utah; A.A.G.O.

SUSAN I. BRENDER, III, Assistant Professor of Office Administration (1969)
B.S.C., M.A., University of Iowa.

RAYMOND A. BROWN, Athletics Administrative Assistant and Business Manager (1970)

JAMES R. BUCHANAN, Assistant Professor of Welding (1959)

RICHARD E. BULLINGTON, Professor of Education
Executive Vice President (1968)
B.S., Rutgers; M.A., Ed.D., University of Alabama.

ORVIS C. BURMASTER, Instructor in English (1968)
B.S., Montana State College; M.A., University of Montana; South Dakota State College, Utah State College.

CLARA P. BURTCH, Assistant Professor of Teacher Education and Library Science (1969)
B.A., M.A., College of Idaho.

C. RANDALL BYERS, Instructor in General Business (1969)
B.S., M.S., University of Idaho.

ERMA M. CALLIES, Vocational Counselor (1969)
B.S., South Dakota University.

LOIS JEAN CAREY, Instructor in Nursing (1969)
B.S., Columbia University.

WILLIAM J. CARSON, Associate Professor of Accounting (1963)
B.S., University of Notre Dame; M.B.A., University of Denver; University of Wyoming.

JOHN A. CAYLOR, Professor of History (1965)
A.B., Nebraska Teacher's College; M.A., Ph.D., University of Nebraska.

WILL M. CHAFFEE, Instructor in Practical Nurses Training (1967)
R.N., St. Lukes Hospital; University of Colorado.

LUANNE CHANDLER, Assistant Professor of Office Administration (1964)
B.A., San Jose State College; M.Ed., Montana State University; University of Nevada; University of Idaho.
ACEL H. CHATBURN, Professor of Education (1944)
B.A., College of Idaho; University of Idaho; M.A., University of Colorado; Ed.D., Washington State University; University of California at Berkeley.

WAYNE CHATTERTON, Professor of English (1968)
B.S., M.A., Brigham Young University; Ph.D., University of Utah.

MARVIN CLARK, Associate Professor of Business Education
Chairman, Department of Business Education (1969)
B.S., St. Cloud State College; M.A., Ph.D., University of Minnesota.

MARGARET COCOTIS, Assistant Professor of English (1968)
B.S., Portland State College; M.A.H.S., Reed College; Oregon State College.

DEWEY H. COFIELD, Assistant Professor of Electronics (1961)
University of Idaho; Idaho State College.

WILBUR COLLINS, Purchasing Officer (1969)

DORAN L. CONNOR, Assistant Professor of Physical Education (1966)
B.A., Idaho State University; M.S., Utah State University.

GENE COOPER, Professor of Physical Education
Chairman, Department of Physical Education (1967)
B.S., M.S., D.Ed., University of Utah.

DELBERT F. CORBETT, Assistant Professor of Communication Arts (1969)

A. ROBERT CORBIN, Instructor in Sociology (1967)
B.A., Blackburn College; M.A., University of Washington; Th.M., Iliff School of Theology.

ROBERT C. CORNWELL, Associate Professor of Business Education (1969)
B.A., Wartburg College; M.A., Colorado State University; Ed.D., Arizona State University.

T. VIRGINIA COX, Instructor in Anthropology (1967)
B.A., San Diego State College; M.A., University of California at Davis.

DAVID E. CRANE, Library Cataloger (1969)
B.A., San Francisco State College; M.A., San Jose State College.

MARY CROWSON, Instructor in Nursing (1966)
B.S.N., University of Utah.

MARTHA CRUMPACKER, Instructor in Office Administration (1969)
B.A., Boise State College.

BILL DARRELL CURTIS, Instructor in Auto Body (1967)
Diploma, Boise Junior College.

CHRISTOPHER DAPLUCAS, Assistant Professor of Management (1968)
Director, Center for Business and Economic Development; B.B.A., M.B.A., University of Cincinnati; Ohio State University, Miami University.

NORMAN F. DAHM, Professor of Engineering (1953)
B.S., M.Ed., University of Colorado; Agricultural and Mechanical College of Texas; University of Washington; Bucknell University.

JACK L. DALTON, Associate Professor of Chemistry
Chairman, Department of Chemistry (1958)
B.S., Nebraska State Teachers College; M.S., Kansas State University of Agriculture and Applied Science; Kansas State College.
A. JERRY DAVIS, Admissions Counselor .................................................. (1968)
B.A., Drake University; B.Th., Northwest Christian College.

ANNE N. DE LAURIER, Counselor ............................................................. (1967)
B.A., College of Idaho; M.S., University of Oregon.

ROBERT DE NEUFVILLE, Associate Professor of Foreign Languages ................ (1940)
B.A., M.A., New College, Oxford; Dr. Jr., Marburg University;
Geneva University; Berlin University; Columbia University;
Middleburg College.

WILLIAM B. EASTLAKE, Assistant Professor of Economics ......................... (1969)
H.A.B., Xavier University; Ohio State University.

PATRICIA M. DORMAN, Assistant Professor of Sociology .......................... (1967)
B.S., M.S., University of Utah.

WILBER D. ELLIOTT, Associate Professor of Music ................................ (1969)
B.A., University of Washington; M.E., Central Washington State College.

J. CALVIN EMERSON, Associate Professor of Chemistry ......................... (1933-40; 1960)
A.B., Northwest Nazarene College; B.S., College of Idaho; M.S.
University of Idaho; University of Washington; Oregon State University.

EVELYN EVERTS, Assistant Professor, Reference Librarian ...................... (1957)
B.A. in Librarianship, University of Washington; B.S. (Zoology)
University of Washington; Washington State University.

MARJORIE E. FAIRCHILD, Assistant Professor of Library Science ................ (1966)
A.B. University of California; M.A. in Librarianship, University
of Southern California; M.A., Library Science, University of
California at Berkeley.

HELEN FLAHERTY, Instructor in Licensed Practical Nursing ....................... (1968)
B.S.N., University of Portland College of Nursing.

NANCY L. FLEMING, Instructor in Nursing ............................................... (1963)
B.S.N., University of Nebraska College of Medicine.

MILTON B. FLESHMAN, Assistant Professor of Auto Mechanics .................. (1959)
Idaho State College; Carter Carburetion Course; Delco-Remy
Auto Electric Class; Allen Tune-up Equipment; Boise Junior
College; Briggs & Stratton Factory Service School, Portland,
Oregon, United Motors Service Courses.

CAROLE. FOUNTAIN, Instructor in Nursing ............................................. (1967)
A.S., Boise Junior College; B.S.N., University of Washington.

DARCY F. FREDERICK, Assistant Professor of Mathematics ....................... (1966)
B.S., Portland State College; M.S., Oregon State University.

HARRY K. FRITCHMAN, II, Professor of Zoology, Chairman, Dept. of
Biology .............................................................................................................. (1954)
A.A., Boise Junior College; B.A., M.A., Ph.D., University of
California at Berkeley.

ALBERT M. FUSHER, Instructor in Auto Mechanics ..................................... (1965)
Northwest Nazarene College; Idaho State University; Specialized
Automotive Training.

EUGENE G. FULLER, Assistant Professor of Zoology ................................ (1967)
B.S., M.S., University of Nevada; Ph.D., Oregon State University.

WILLIAM Y. FUNG, Associate Professor of Philosophy .............................. (1961)
A.B., Lingnan University, Canton, China; M.A., University of
Southern California; Union Theological Seminary, New York
City; Ph.D., New York University.

ROBERT S. GIBB, Administrative Assistant to the President ..................... (1969)
A.B., Nebraska Wesleyan University; M.Ed., University of Idaho.
RALPH J. GINES, Assistant Professor of Accounting . (1967)
B.S., Brigham Young University; L.L.B., George Washington University. C.P.A.

C. WALLACE GOULD, Associate Professor of History, Political Science . (1966)
B. Mus., M. Mus., Oberlin College; Ph.D., Northwestern University; Interamerican University, Mexico.

FRANCES P. GUZIE, Assistant Professor of Social Science . (1969)
B.A., University of Minnesota; M.S.W., School of Social Work.

CLAYTON W. HAHN, Associate Professor of Engineering . (1948-52, 1963)
B.S. (M.E.), University of Colorado; University of Montana; Montana State College; University of California at Los Angeles; University of Southern California; University of Nebraska.

MARK HANSEN, Instructor in English
B.A., M.A., San Francisco State College.

ARDEN E. HARRIS, Instructor in Office Machine Repair . (1965)
Special Training in Office Machine Repair.

MARY ALICE HART, Instructor in English . (1969)
B.S., M.A., Utah State University.

RICHARD HART, Assistant Professor of Economics . (1969)
B.S., M.S., Utah State University, Kansas State University.

ALICE H. HATTON, Registrar . (1959)
B.A., University of Washington; Colorado State College; College of Puget Sound.

JOHN P. HAYDON, Instructor in Vocational-Technical Education . (1969)

DELBERT D. HEACOCK, Assistant Professor of Psychology . (1966)
B.A., College of Idaho; M.S., University of Utah.

WILLIAM W. HENDRY, Professor of Teacher Education
Dean of Student Personnel Services
B.A., Alma College; M.A., University of Michigan; Ed.D., Arizona State University.

ROBERT A. HIBBS, Associate Professor of Chemistry . (1965)
B.S., M.S., University of Florida; Ph.D., Washington State University.

K. LYLE HILL, Instructor in Teacher Education . (1968)
B.S., Illinois State University; M.A., College of Idaho; Oregon State University.

PAULINE H. HINMAN, Director of Placement Services . (1967)
B.A., University of Idaho.

KENNETH HOLLENBAUGH, Assistant Professor of Geology . (1968)
B.S., Bowling Green State University; M.S., Ph.D., University of Idaho.

THEODORE HOPFENBECK, Assistant Professor of Criminology . (1967)
B.S., M.Ed., University of Arizona; San Diego State College.

HOWARD L. HUFF, Instructor in Art . (1965)
Diploma, Boise Junior College; B.A., College of Idaho; M.F.A., University of Idaho.

ELMER E. HUNT, JR., Associate Professor of Mathematics . (1959)
B.A., M.Ed., Washington State University, Oregon State University; University of Georgia; Oklahoma State University.

DARRYL HUSKEY, Instructor, Serials and Documents Librarian . (1968)
B.S., Brigham Young University; M. L., Kansas State Teachers College.

MARJORIE JACKSON, Professor of Teacher Education, Dean of Women . (1969)
B.A., M.A., University of California at Berkeley; M.A., University of Denver; Ed.D., Columbia University.
ROBERT L. JACOBSEN, Assistant Professor of Mathematics (1970)
B.A., Carleton College; M.A., Ph.D., Cornell University.

JOHN H. JENSEN, Assistant Professor of Teacher Education and Library Science (1969)
B.A. Western Michigan University; M.S., Ph.D., University of Oregon.

HELEN R. JOHNSON, Associate Professor of Office Administration (1955)
B.A. Northwest Nazarene College; University of Idaho; Oregon State University; University of Washington; M.A. College of Idaho; University of California at Berkeley; Arizona State University.

WILLIAM A. JONES, Instructor in Physical Education (1965)
B.A., Boise College.

THEODORE F. KEITH, Internal Auditor (1966)
B.S., University of Idaho, C.P.A.

FRANCIS E. KELLER, Associate Professor of Engineering (1967)
B.S., Seattle University; M.S., University of Idaho; Ph.D., Montana State University.

MARY LOUISE KELLER, Assistant Professor of Nursing (1959)
B.S.N., Northwest Nazarene College; University of Washington; University of California at Los Angeles.

DORIS KELLY, Assistant Professor of Nursing (1958)
Diploma Cook County School of Nursing; B.A., University of Denver; M.N., University of Washington.

FENTON C. KELLEY, Assistant Professor of Zoology (1969)
B.A., M.S., University of New Mexico; Ph.D., University of California at Berkeley.

CHARLES R. KERR, Assistant Professor of Mathematics (1969)
B.A., Washington State University; M.A., Ph.D., University of British Columbia.

WILLIAM F. KIRTLAND, Associate Professor of Teacher Education and Library Science (1969)
Director of Reading Education Center; B.S., M.A., Bemidji State College; Ed.D., Arizona State University.

ANTHONY J. KNAP, Head Football Coach (1968)
B.S., M.S., University of Idaho; San Francisco State College; Marquette University, Milwaukee; University of California at Berkeley.

LEO L. KNOWLTON, Associate Professor of Marketing (1965)
B.S., M.S., University of Idaho; University of Oregon.

ALFRED KOBOR, Instructor in Art (1968)
B.S., M.S., Fort Hayes Kansas State College.

RONALD KREMPELTZ, Instructor in Drama (1968)
B.S., M.A., San Jose State College; College of San Mateo.

NOEL KRICBAUM, Assistant Professor of Vocational-Technical Education (1955)
Electricians School, Navy; Idaho State University; Boise Junior College.

ELLIS LAMBOURN, Professor of Economics, Chairman, Dept. of Economics (1968)
B.S., Utah State University; M.S., University of Illinois; Ph.D., Cornell University; University of California.

RICHARD C. LANE, Assistant Professor of General Business (1969)
B.S., M.S., Kansas State College; Ph.D., University of Missouri.

L. WARDELL LARSON, Assistant Professor of Psychology (1967)
WILLIAM C. LARUE, Instructor in Vocational-Technical Education (1969)
B.S. (Ed.), University of Nebraska; M.A., College of Idaho; State University College at Plattsburg, New York; University of Idaho; University of Denver.

JUDITH LEMMON, Instructor in Vocational-Technical Education (1969)
B.S., University of Idaho.

RAY LEWIS, Assistant Professor of Physical Education (1956)

HUGH T. LOVIN, Professor of History, Chairman, Dept. of History (1965)
B.A., Idaho State College; M.A., Washington State University; Ph.D., University of Washington.

ROBERT LUKE, Assistant Professor of Physics (1968)
Diploma, Ricks College; B.S., M.S., Ph.D., Utah State University.

REGINA LUNDERGAN, Instructor in English (1968)
B.S., Southern Oregon College; M.A., University of Oregon.

JUDITH L. LUNDY, Instructor in Vocational-Technical Education (1969)
B.S., University of Idaho.

RAY LEWIS, Assistant Professor of Physical Education (1956)

HUGH T. LOVIN, Professor of History, Chairman, Dept. of History (1965)
B.A., Idaho State College; M.A., Washington State University; Ph.D., University of Washington.

ROBERT LUKE, Assistant Professor of Physics (1968)
Diploma, Ricks College; B.S., M.S., Ph.D., Utah State University.

REGINA LUNDERGAN, Instructor in English (1968)
B.S., Southern Oregon College; M.A., University of Oregon.

JUDITH L. LUNDY, Instructor in Vocational-Technical Education (1969)
B.S., University of Idaho.

RAY LEWIS, Assistant Professor of Physical Education (1956)

HUGH T. LOVIN, Professor of History, Chairman, Dept. of History (1965)
B.A., Idaho State College; M.A., Washington State University; Ph.D., University of Washington.

ROBERT LUKE, Assistant Professor of Physics (1968)
Diploma, Ricks College; B.S., M.S., Ph.D., Utah State University.

REGINA LUNDERGAN, Instructor in English (1968)
B.S., Southern Oregon College; M.A., University of Oregon.

JUDITH L. LUNDY, Instructor in Vocational-Technical Education (1969)
B.S., University of Idaho.

RAY LEWIS, Assistant Professor of Physical Education (1956)

HUGH T. LOVIN, Professor of History, Chairman, Dept. of History (1965)
B.A., Idaho State College; M.A., Washington State University; Ph.D., University of Washington.

ROBERT LUKE, Assistant Professor of Physics (1968)
Diploma, Ricks College; B.S., M.S., Ph.D., Utah State University.

REGINA LUNDERGAN, Instructor in English (1968)
B.S., Southern Oregon College; M.A., University of Oregon.

JUDITH L. LUNDY, Instructor in Vocational-Technical Education (1969)
B.S., University of Idaho.
CARROLL J. MEYER, Associate Professor Music (1948)
B.M., University of Michigan; Pupil of Ethel Leginska and Cecile de Horvath; M.A., University of Iowa; Elkader Junior College.

FLORENCE M. MILES, Professor of Nursing (1955)
Chairman, Department of Registered Nursing
Diploma, School of Nursing, St. Luke's Hospital; B.S.N.E., M.N., University of Washington; University of California at Los Angeles; Lewis-Clark Normal School.

DOUGLAS S. MILLARD, Instructor in Office Machine Repair (1966)
Special Training and schools in office machine operation and repair.

BEVERLY MILLER, Assistant Professor, Circulation Librarian (1968)

GILBERT MCDONALD MILLER, Director, Area Vocational-Technical School (1969)

ROBERT T. MILLER, Associate Professor of Business Administration (1963)
B.S., University of Oregon; LL.B., Columbia University; University of Idaho.

B. RAY MOORE, Instructor, Lab Assistant, Technician in Biology (1968)
B.S., West Texas State University; Odessa College, Amarillo College.

JAMES M. "Dyke" NALLY, Director of Student Union Building (1969)
B.A., Boise State College.

GERALD E. NELSON, Associate Registrar (1969)
B.S., M.Ed, Montana State University.

GARY R. NEWBY, Assistant Professor of Physics, Chairman (1966)
Department of Physics, Engineering and Physical Science
B.S., Ph.D., Arizona State University.

DAVID E. NICKEL, Assistant Football Coach (1968)
A.A., College of San Mateo; B.S., Utah State University; University of California at Berkeley.

ROSS S. NICKERSON, Instructor in English (1969)
B.A., Boise State College; M.A., University of Utah.

CLAYTON R. NICHOLS, Assistant Professor of Geology (1970)
B.S., M.S., University of Oklahoma.

DONALD OAKES, Assistant Professor of Music (1966)
B.M., M.M., Northwestern University; University of Oregon.

DONALD J. OBE, Professor of Botany, Chairman, Division of Science and Health (1946)
B.A., M.A., Ph.D., University of Kansas; Oregon State University; University of Oregon School of Marine Biology; Arizona State University; University of North Carolina.

JOHN T. OGDEN, Instructor in Welding (1965)
Diploma, Boise Junior College; Navy Training School; Special Training and Experience in Welding.

DAVID L. ORAVEZ, Assistant Professor of Art (1964)
B.S., M.S., M.F.A., University of Wisconsin; Summer School of Painting at Satutuck, Michigan.

MELVIN L. OTT, Instructor in Mathematics (1967)
B.S., Eastern Oregon College; M.S., Utah State University.

PATRICIA K. OURADA, Associate Professor of History (1962)
B.A., College of Saint Catherina; M.A., University of Colorado; University of Laval; University of Michigan.

NELDON D. OYLER, Instructor in Horticulture (1966)
A.S., Snow College; B.S., Brigham Young University.
HERBERT D. PAPENFUSS, Assistant Professor of Botany ................. (1967)
B.S., University of Utah; M.S., Brigham Young University;
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RICHARD D. PAYNE, Assistant Professor of Economics ................. (1970)
B.A., Utah State University; M.A., University of Southern
California.

LOUIS A. PECK, Associate Professor of Art, Chairman, Dept. of Art (1955)
B.A., College of Idaho; University of California, Santa Barbara;
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B.A., University of Alaska; M.A., Ph.D., University of Nebraska.

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B.F.S., Georgetown University; Graduate, National War College;
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B.S., M.S., Utah State University; Ph.D., Washington State
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CHARLES PHILLIPS, Professor of General Business, Chairman,
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A.B., De Pauw University; M.A., Ph.D. University of Iowa.

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JOHN L. PHILLIPS, JR., Professor of Psychology,
Chairman, Department of Psychology ............................... (1954)
B.A., M.A., Reed College; Ph.D., University of Utah; University
of Idaho; Beloit College; University of Washington; University
of California.

C. HARVEY PITMAN, Assistant Professor of English, Debate ....... (1966)
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B.S., M.S., University of Utah.

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B.Arch.E., Washington State University.

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B.S., University of Oregon; M.Ed., University of Portland.

ELAINE ROCKNE, Instructor in Medical Records Technology .......... (1968)
B.A., College of St. Scholastica, Duluth, Minn.

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ENID RUNFT, Assistant Professor of English (1966)  
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JAMES RUSSELL, Instructor in Art (1969)  
A.B., San Diego State College; M.A., M.F.A., University of Iowa.

MURRAY SATTERFIELD, Instructor in Physical Education and Basketball Coach (1965)  
B.S., University of Utah.

MARTIN SCHEFFER, Assistant Professor of Social Sciences (1969)  
A.A., Diablo Valley College; B.S., M.S., University of Oregon.

J. ROY SCHWARTZ, Professor of English, Acting Chairman, Department of English (1940)  
B.S., M.A., University of Oregon; University of Utah; independent study in England.

DUSTON R. SCUDDER, Associate Professor of Marketing (1964)  
B.S., B.A., M.A., University of Denver; University of Colorado; Colorado State University.

GLENN E. SELANDER, Assistant Professor of English (1966)  
B.S., Southwestern University; M.A., Utah State University.

JOHN E. SEVERANCE, Instructor in Computer Programming (1967)  
B.S., University of Idaho; M.S., University of Arizona.

JOHN H. SEWARD, Assistant Professor of History (1967)  
B.A., Morningside College; M.A., Moorhead State College, Minnesota; North Dakota State University; Midwestern University Texas.

WILLIAM E. SHANKWEILER, Professor of Speech, Chairman Division of Arts and Letters (1956)  
B.F.A.; M.F.A., Goodman Memorial Theater; Ph.D., University of Denver.

MELVIN L. SHELTON, Assistant Professor of Music (1968)  
B.M., Wichita State University; Boise College; M.M., University of Idaho.

HARRY SHIMADA, Director of Student Activities and Alumni Association (1969)  
B.A., Idaho State University.

BETTY P. SHOWMAKER, Coordinator of Adult Basic Education (1968)  
B.S., Lindenwood College for Women; M.S., University of Idaho.

WILLIAM R. SICKLES, Associate Professor of Psychology (1968)  
B.A., Wittenberg University; M.A., Columbia University; Ph.D., University of California at Berkeley.

DONALD J. SIEBER, Instructor in Electronics (1962)  
U.S. Army Signal Corps; Burroughs Corporation; Montronics; Philco Corporation.

ARNY R. SKOV, Instructor in Art (1967)  
A.A., Boise Junior College; B.A., M.F.A., University of Idaho.

FRANK H. SMARRT, Assistant Professor of Mathematics (1958)  

JOHN P. SMEAD, Assistant Professor of Speech (1966)  
B.A., M.A., University of Michigan.
DONALD D. SMITH, Professor of Psychology  (1967)
A.B., Nebraska State Teachers College; M.Ed., Whittier College; M.Ed., Ed.D., University of Southern California.

LYLE SMITH, Professor of Physical Education, Director of Athletics  (1946)
B.S.(Ed.), M.S. (Ed.), University of Idaho; San Diego State College.

JOSEPH B. SPULNIK, Professor of Chemistry, Dean, School of Arts and Sciences  (1941)
B.S., M.S., Ph.D., Oregon State University; Reed College, Portland State College.

GEORGE W. SQUIRES, Assistant Football Coach  (1970)
B.A., University of Wyoming.

GEORGIA V. STANDING, Assistant Professor of Music  (1963)
B.F.A., M.F.A., University of Utah; Curtis Institute of Music, Philadelphia; Private Study in Europe; Soloist with various national operas and symphonies.

FRANK W. STARK, Associate Professor of Chemistry and Physical Science  (1957-62, 1967)
B.S., M.S., Trinity College, University of Denver.

ROBERT B. SYLVESTER, Assistant Professor of History  (1963)
A.A., Boise Junior College, B.A. M.A., University of California at Santa Barbara.

YOZO TAKEDA, Assistant Professor of Mathematics  (1969)
B.S., University of Michigan; M.A., University of Missouri.

JOHN S. TAKEHARA, Assistant Professor of Art  (1968)
B.A., Walla Walla College; M.A., Los Angeles State College.

ALBERT H. TENNYSON, Instructor in Vocational-Technical Related Subjects  (1966)
B.A., College of Idaho; M.A., University of Idaho.

NAN M. THOMASON, Instructor in Nursing  (1967)
R.N., St. Luke's Hospital; B.S., Montana State University.

CARL W. TIPTON, Assistant Professor of Management  (1965)
Iowa Wesleyan College; University of Washington; George Washington University; M.B.A., University of Chicago; University of Idaho; College of William and Mary.

JAMES W. TOMPKINS, Assistant Professor of Vocational-Technical Related Subjects  (1963)
A.B., Wheaton College; B.D., Th.B., Westminster Theological Seminary; University of Pennsylvania; Harvard University.

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B.S., State University College of Education.

LLOYD D. TUCKER, Assistant Professor of Mathematics, Chairman of Honors Program  (1969)
B.A., M.S., Southern Illinois University; Ph.D., University of Oregon.
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B.C.S., Seattle University, C.P.A.

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B.A., Nebraska Wesleyan University; University of Chicago; University of California, Los Angeles; University of Southern California; San Jose State College; Brigham Young University.

LUIS J. VALVERDE, Associate Professor of Foreign Language ....................... (1965)
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DARRELL VAN KLEEK, Accounting Office Supervisor .................................. (1969)
B.S., University of Oregon.

WAYNE VAN LIEW, Associate Professor of Drafting-Design ......................... (1961)
B.S., M.S., Oklahoma State University; University of Tulsa; Idaho State College; University of Illinois; University of Arkansas; South Dakota School of Mines and Technology.

WARREN VINZ, Assistant Professor of History ........................................ (1968)
Lincoln College; B.A., Sioux Falls College, B.D., S.D. Berkeley Baptist Divinity; M.A., Ph.D., University of Utah.

JAMES B. WAGSTAFF, Assistant Football Coach ........................................ (1969)
B.A., Idaho State University; M.S., Utah State University.

EUNICE WALLACE, Associate Professor of English .................................... (1968)
B.A., College of Idaho; Ed.M., Ph.D., Oregon State University; University of California; American University; Idaho State University.

GERALD WALLACE, Professor of Education, Dean, School of Education ................. (1968)
B.A., College of Idaho; M.A., University of California; Ed.D., University of Oregon; Whitman College; Colorado State College; Oxford University.

FREDERICK R. WARD, Assistant Professor of Mathematics ......................... (1969)
B.S., William and Mary; M.S., University of Colorado; Ph.D., Virginia Polytechnic Institute.

MONT M. WARNER, Associate Professor of Geology .................................... (1967)
A.B., M.A., Brigham Young University; Ph.D., State University of Iowa; University of Utah; Cambridge University.

JOHN E. WARWICK, Associate Professor of Speech .................................... (1963)

TARMO WATIA, Instructor in Art ............................................................ (1969)
B.S., M.F.A., University of Michigan.

ROBERT D. WATTS, Director of Printing and Graphic Services ....................... (1964)
B.A., Boise State College.

LOUISE WEITMAN, Instructor in English ................................................ (1969)
A.B., Northwest Nazarene College; M.A., University of Washington.

PHILLIP J. WEST, Personnel Director ..................................................... (1969)

E. ALLEN WESTON, Associate Professor of Drafting-Design ......................... (1964)
B.F.A., University of Arizona; Jefferson Machamer School of Art; Art Center School; USA Engineering Drafting School, College of Idaho.

WAYNE E. WHITE, Associate Professor of Business Administration ................. (1965)
A.A., Eastern Arizona Junior College; B.S., M.A., Arizona State University; University of Arizona.
THOMAS W. WILBANKS, Assistant Professor of English (1969)
B.A., Trinity University; Th.B., Princeton Theological Seminary.

IRENE A. WILCOX, Assistant Professor of Social Work (1966)
B.A., University of Utah; Howard University; M.S.W., Washington University, St. Louis, Missouri.

EDWIN E. WILKINSON, Assistant Professor of Psychology, Dean of Men (1968)
B.A., Whitworth College; M.S., Washington State University; University of Oregon; University of Akron.

MARJORIE WILLIAMSON, Assistant Professor of Office Administration (1967)
B.S.(Ed.), University of Kansas; M.B.(Ed.), University of Oregon.

DARRELL C. WILSON, Associate Professor of Political Science (1967)
B.S., Lewis and Clark College; M.A., Ph.D., University of Oregon.

MONTÉ D. WILSON, Instructor in Geology (1969)
B.S., Brigham Young University; M.N.S., University of Idaho.

PETER KLEIN WILSON, Associate Professor of Business Administration (1966)
B.A., University of Illinois; J.D., Northwestern University.

ELLA MAE WINANS, Associate Professor of Mathematics (1958)
B.S., University of Oregon; M.S., New York University; Idaho State University.

JAMES R. WOLFE, Assistant Professor of Business Administration, Director, Extended Day and Summer Sessions (1960)
B.S., M.B.A., Indiana University; University of California at Berkeley, Idaho State College; Stanford University; Michigan State University.

JOHN G. WOODWORTH, Associate Professor of English (1958)
B.A., University of Oklahoma, M.A., University of Michigan; University of Iowa; Northwestern University; Iowa State College; Southern Oregon College; Oregon Shakespearean Festival.

GILBERT A. WYLLIE, Associate Professor of Biology (1965)
B.S., College of Idaho; M.A., Sacramento State College; Ph.D., Purdue University.

JERRY YOUNG, Assistant Professor of Mathematics (1964)

JOHN R. YOUNG, Professor of Marketing (1967)
B.Ed., Whitewater State College, Wisconsin; M.A., Ph.D., University of Iowa.

VIRGIL M. YOUNG, Associate Professor of Education (1967)
B.S., M.Ed., Ed.D., University of Idaho.
EMERITI

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

ELSIE BUCK, Professor of Mathematics  
(1932-34, 1937-68)

VINA BUSHBY, Associate Professor of Secretarial Science  
(1946-65)

CLISBY T. EDLEFSEN, Professor of Business  
(1939-69)

LUCILLE T. FORTER, Instructor in Voice  
(1932-62)

JOHN F. HAGER, Associate Professor of Machine Shop  
(1954-69)

ADA Y. HATCH, Professor of English  
(1932-67)

MARY T. HERSHEY, Registrar  
(1933-54)

KENNETH L. HILL, Associate Professor of Education  
(1962-70)

HELEN E. MOORE, Dean of Women  
(1947-68)

CAMILLE B. POWER, Associate Professor of Spanish and French  
(1932-35; 1936-51; 1954-67)

HAZEL MARY ROE, Associate Professor of Office Administration  
(1942-44, 1947-69)

LYLE F. TRAPP, Assistant Professor of Auto Body  
(1953-67)

HELEN WESTFALL, Associate Professor of Physical Education  
(1962-70)

ELEMENTARY EDUCATION

SUPERVISING TEACHERS, CAMPUS SCHOOL

KEITH KEENER ......................................................... Principal
PAULINE SPROUL ..................................................... Nurse
LOIS WAND ......................................................... Grade 1
MARGUERITE TOOMAN ................................................ Grade 1
CARLOTTA HAWKS .................................................. Grade 2
MARIANNE WORDEN ................................................. Grade 2
MARIEL FRITSCHLE ................................................ Grade 3
DOROTHY SEELEY .................................................. Grade 3
ALICE GOIN ......................................................... Grade 4
DOROTHY ROBERTS ................................................ Grade 4
GRACE DAVENPORT ................................................. Grade 5
ALYCE YOUNGBLOOD ................................................ Grade 5
DUANE ROBERTS .................................................... Grade 6
HARRY G. WARR .................................................... Grade 6
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| Library Science Courses | 168 |
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BOISE STATE COLLEGE CALENDAR
1970 - 1971

SPRING SEMESTER

*Last Date to Complete All Admission Requirements ........................... 4:30 P.M. Mon. Jan. 4
(to be able to register at regular registration times)

Department Chairmen Meeting (By Schools) ........................................ Wed. Jan. 6

Faculty Meeting (By Schools)
(Curriculum and Registration Planning, Instructional Preparation)

Residence Halls Open to New Students ................................................. 1:00 P.M. Sun. Jan. 10

Pre-Registration Counseling (Seniors and Juniors) ............................... 8:00 A.M.-4:30 P.M. Tues. Jan. 12

Late ACT Test .................................................................................. 10:00 A.M.-2:30 P.M. Tues. Jan. 12

Foreign Language Placement Test (LA206) .............................................. 3:30-5:30 P.M. Tues. Jan. 12
(for students who have foreign language background and wish to continue in the same foreign language)

New Student Orientation & Group Counseling (LA 106) ................. 8:00 A.M. 9:45 P.M. Wed. Jan. 13

Pre-Registration Counseling (Sophomores and Continuing Freshmen) ............................. 8:00 A.M.-4:30 P.M. Wed. Jan. 13

Pre-Registration Counseling (Liberal Arts Bldg) .............................. 8:00 A.M.-4:30 P.M. Thurs. Jan. 14
(New, Transfer & Former BSC Students)

Registration for Seniors, Juniors, Sophomores ................................. 8:00 A.M.-4:30 P.M. Thurs. Jan. 14
(by Schedule in Gymnasium)

Pre-Registration Counseling (Liberal Arts Bldg) .............................. 8:00 A.M.-3:00 P.M. Fri. Jan. 15
(New, Transfer, & Former BSC Students)

Registration for Freshmen ................................................................... 8:00 A.M.-3:00 P.M. Fri. Jan. 15
(by Schedule in Gymnasium)

Evening School Registration (Gymnasium) .............................................. 7:00 P.M.-9:00 P.M. Fri. Jan. 15

Classes Begin .................................................................................. 9:00 A.M.-12:00 P.M. Sat. Jan. 16

Last Date for Adding New Courses for Credit ..................................... Wed. Jan. 27

Washington's Birthday (Holiday) ....................................................... Mon. Feb. 15

Last Date for Withdrawal without Penalty for Failing Work .............. Fri. Mar. 12

End of Mid-Semester Examinations .................................................. Fri. Mar. 12

Last Date for Removal of Incompletes for Previous Semesters .......... Fri. Mar. 12

Spring Vacation ................................................................................ from 10:00 P.M. Fri. Mar. 12
(to 7:00 A.M. Mon. Mar. 22

Last Date to Withdraw from Classes .................................................. Thurs. April 22

Semester Examinations ...................................................................... from 8:00 A.M. Mon. May 10
(to 5:00 P.M. Thurs. May 13

Residence Halls Close ........................................................................ 6:00 P.M. Sun. May 16

Commencement ................................................................................ Sun. May 16

SUMMER SESSION 1971

First Session .................................................................................. June 7 — July 9
Second Session ............................................................................. July 12 — August 13

*Students who complete after this date will be charged a late registration fee and scheduled after regular registration times.
The following addendum has been approved since the publication of the 1970-71 Boise State College catalog. All copies of the catalog should be marked to show the changes. Additions and the revised page 51 may be clipped and inserted in the appropriate page of your catalog.

On inside front cover change ending date of the Christmas Vacation to read Jan. 12, 1971.

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On page 35 add the following new paragraph I.:

I. CREDIT FOR PREREQUISITES NOT TAKEN

Students who have a sufficiently high G.P.A., or ACT score, or who pass a Departmental Placement examination may take designated courses without taking the listed prerequisite.

Students who receive a grade of “C” or better for a course in which they have not taken the prerequisite course(s) will be given credit with a grade of “S” for that course(s) when the following conditions are fulfilled:

1. The student makes application for this credit.
2. Department Chairmen, Division Chairmen, and Deans will determine for which prerequisite course(s) this credit is appropriate.
3. In some cases, an examination covering the content of the prerequisite course(s) must be passed by the student.

---

On page 44 add to the list of college-wide courses:

297 Special Topics 1-4 credits.

A student may apply a maximum of 12 credits of Special Topics (both 297 and 497) toward graduation.

---

On page 44 change HP 195 Honors Seminar to read HP 195, 295 Honors Seminar.
III Advertising Design

Freshman year (see General Art Freshman year)

<table>
<thead>
<tr>
<th>Sophomore year</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermediate Drawing</td>
<td>2</td>
</tr>
<tr>
<td>Intermediate Painting</td>
<td>2</td>
</tr>
<tr>
<td>Advertising Design</td>
<td>2</td>
</tr>
<tr>
<td>Intro to Music or Drama</td>
<td>3</td>
</tr>
<tr>
<td>Social Science</td>
<td>0</td>
</tr>
<tr>
<td>Lab Science or Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total:** 16

**REQUIREMENTS FOR ENGLISH MAJORS**

**Bachelor of Arts Degree**

I. Completion of general college requirements for Bachelor of Arts. See Page 32.

II. Competence in a Foreign Language equivalent to that gained by 2 years of college instruction.

III. Total credits required in the English major

A. Required courses for all majors

1. Survey of British Literature 6 credits
2. Methods and Theories of Literary Criticism 3 credits
3. Shakespeare 3 credits
4. Pre-1800 British Literature 6 credits
5. Post-1800 British or American Literature 6 credits
6. Senior Seminar 2 credits
7. Electives in English 3 credits

**Total:** 29 credits

B. Required courses in English options

1. Liberal Arts Option:
   a. History of the English Language or Introduction to Linguistics 3 credits
   b. English Electives, 3 of which must be American Literature credits 15 credits

**Total:** 18 credits

2. Secondary Education Option:
   c. Advanced English Grammar 3 credits
   d. Oral Interpretation 3 credits
   e. Speech for Teachers 3 credits
   f. Methods of Teaching Secondary School English 3 credits
   g. English Electives, 3 credits of which must be in American Literature courses 6 credits

**Total:** 18 credits

**GRAND TOTAL:** 47 credits

either option
On page 52 add title at top of page:

REQUIREMENTS FOR HISTORY MAJOR
Bachelor of Arts Program

On page 82 and 83 add new Sociology Courses (comprising a major in Sociology):

SO 240 Sociology of the Family—3 credits
Each semester
An analysis of courtship, marriage, kinship, and family patterns in the United States and selected societies. Theories and facts of the relationship of these patterns to the larger society. Prerequisite: SO 101.

SO 310 Elementary Social Statistics—3 credits
Fall semester
The application of measurements to sociological data. Basic statistical measures, techniques for their application, meaning and use in research. Recommended for majors, to be taken in the Junior year and followed by SO 311. Prerequisite: SO 101, High School Algebra, upper division status.

SO 403 Social Change—3 credits
Fall semester
This course will study the factors influencing the acceptance or rejection of innovations, and their effects on social institutions. Prerequisites: SO 101 and upper division status.

On page 84 change Social Work course numbers:

SW 402 change to SW 401 and delete SW 401 as prerequisite. SW 403 change to SW 402.

On page 107 delete Physical Therapy Assistant program.
On page 107 add new two year Inhalation Therapy program:

**INHALATION THERAPY**

In the field of Inhalation Therapy there is a need for therapists in hospitals, nursing homes, and homes, wherever a prescribing physician practices. About forty clinical disorders, some very common, are significantly or dramatically treated with inhalation therapeutic techniques. The need for therapists is expanding, due to increased use of therapeutic gases, increased number of older people with respiratory conditions, and the continuous development of new equipment.

The curriculum consists of 64 semester hours, of which 28 hours are service courses that will be taken on the B.S.C. campus, while most of the remaining 36 hours are clinical courses that will be taken at Caldwell Memorial Hospital and taught by qualified members of their hospital staff.

Students wishing to enter the program need to do the following:
1. Meet general requirements for admission to Boise State College.
2. Be interviewed by the selection committee headed by Mrs. Janice Rose, A.R.I.T., Technical Director, Inhalation Therapy Program.

Upon completion of the 2 year program, students will receive an Associate of Science degree and eligibility to take National Registry written and oral exams. Successful completion of National exams qualifies one as a Registered Inhalation Therapist.

**INHALATION THERAPY ARTS CURRICULUM**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z 107 Anat. &amp; Physiology</td>
<td>5</td>
</tr>
<tr>
<td>PS 101 Prin. Phys. Science</td>
<td>4</td>
</tr>
<tr>
<td>E 101 English Composition</td>
<td>3</td>
</tr>
<tr>
<td>PE PE Activity</td>
<td>1</td>
</tr>
<tr>
<td>IT 101 Inhalation Therapy Basic Science</td>
<td>2</td>
</tr>
<tr>
<td>IT 151 Ethics &amp; Administration</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS 102 Prin. of Phys. Science</td>
<td>4</td>
</tr>
<tr>
<td>E 102 English Composition</td>
<td>3</td>
</tr>
<tr>
<td>PE PE Activity</td>
<td>1</td>
</tr>
<tr>
<td>IT 102 Inhal. Ther. Basic Science</td>
<td>2</td>
</tr>
<tr>
<td>IT 160 Ventil. Theory and Equip.</td>
<td>2</td>
</tr>
</tbody>
</table>

**SUMMER SESSION**

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 180 Clinical Experience</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 201 Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>IT 221 Pathology</td>
<td>2</td>
</tr>
<tr>
<td>IT 231 Airway Management and Spyrometry</td>
<td>2</td>
</tr>
<tr>
<td>IT 251 Resus. &amp; Long Term Ventil.</td>
<td>2</td>
</tr>
<tr>
<td>IT 261 Clinical Application</td>
<td>2</td>
</tr>
<tr>
<td>IT 281 Clinical Experience</td>
<td>3</td>
</tr>
<tr>
<td>B 205 Microbiology</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IT 242 Bacteriology</td>
<td>2</td>
</tr>
<tr>
<td>IT 270 Inhal. Therapy Arts</td>
<td>2</td>
</tr>
<tr>
<td>IT 256 Humidification, Aerosols and Gases</td>
<td>2</td>
</tr>
<tr>
<td>IT 262 Clinical Application</td>
<td>1</td>
</tr>
<tr>
<td>IT 282 Clinical Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
</tr>
</tbody>
</table>

*Recommended electives include: PE 105 First Aid, PE 121 Personal and Public Health, OA 118 Business English, SO 101 Sociology, or P 105 Applied Psychology.*
G.P.A. POLICY

1. Students entering the fall term of the last year in the nursing curriculum must have a 2.0 G.P.A.
2. Students must make reasonable progress toward a G.P.A. of 2.0 during the first year in the nursing curriculum. Usually a G.P.A. below 1.6 during the first semester and 1.7 during the second semester will disqualify a student from continuing the next term of the nursing curriculum. Any student with a G.P.A. below a 2.0 will be on probation.
3. Nursing students obtaining a “D” or “F” in their major (nursing) must repeat the course and raise the grade to “C” or above before continuing the nursing curriculum.
4. A grade of “D” in any formal clinical evaluation period, by a given clinical instructor will automatically place a student on probation.
5. Two grades of “D” or one “F” in clinical evaluations in one semester is considered adequate reason for dismissal from the program. When this situation occurs, it will be reviewed by the nursing faculty for final action.
6. Students with a cumulative G.P.A. of 2.0 and no grade below a “C” in their major qualify for graduation.

On page 111 change Z 107 to 5 credits (from 4) and in second paragraph of description “Three lectures and . . .”

On page 121 delete all RT REHABILITATION THERAPY courses.

On page 121 add the following Inhalation Therapy courses:

**IT INHALATION THERAPY**

101-102 Inhalation Therapy Basic Sciences—2 credits Each semester

This course is designed to augment basic principles presented in Chemistry, Physics, and Anatomy, and introduce basic concepts and theory of Inhalation Therapy. Special emphasis on Pulmonary Physiology will be given.

151 Ethics & Administration—Introduction to Equipment—2 credits

First semester

This course is designed to be a study of principles that will be of assistance in the understanding of inter-personal relations on the job. Emphasis is directed toward patient management.

An introduction in the operation and maintenance of basic inhalation therapy equipment.

160 Ventilation Theory and Equipment—2 credits Second semester

This course provides knowledge in the control and assistance of respiratory processes and the various modes of therapy administration. This course will also present an understanding of these processes and their therapy, both in theory and in practical terms. Prerequisite: IT 101-102.

180 Clinical Experience—5 credits Summer session

A course designed to give opportunity to apply knowledge gained in the courses described to the clinical disorders. Supervision of the student-patient contacts by an inhalation therapist is constant, in classes of no more than five students for one teacher. The student is encouraged to develop a rather complete concept of disease process including etiology, pathological changes, signs and symptoms, general and specific treatment, prophylaxis, and prognosis. One hour lecture daily and 35 hours laboratory per week for the 5-week summer session. Prerequisite: IT 101-102.
201 Inhalation Therapy Pharmacology—2 credits  
First semester  
A course designed to provide a sound understanding of the drugs used in inhalation therapy. Prerequisite: IT 101-102.

221 Inhalation Therapy Pathology—2 credits  
First semester  
A course designed to provide a sound understanding of pathology with special emphasis on the pulmonary and circulatory system. Prerequisite: IT 180.

231 Airway Management and Spyrometry—2 credits  
First semester  
This course is designed to introduce techniques necessary to measure and evaluate the functional efficiency of the respiratory process and assess a patient's status and progress. Prerequisite: IT 160.

242 Inhalation Therapy Bacteriology—2 credits  
Second semester  
A course designed to provide sound understanding of Bacteriology with special emphasis on the pulmonary and circulatory systems. Prerequisite: B-205.

251 Resuscitation and Long Term Ventilation—2 credits  
First semester  
A course designed to provide an understanding of the techniques employed in re-establishing and supporting vital life processes. The course includes a study of long term intermittent positive pressure breathing and various methods of resuscitation. Prerequisite IT 231.

256 Humidification and Aerosols—2 credits  
Second semester  
The course is designed to present knowledge and necessary skills for administering and maintaining aerosol therapy. There are numerous methods available for humidifying the administered gas and because of their complexity a single course is warranted. Also considered are the physiological effects of humidification and its therapeutic effect. Prerequisite. IT 160.

261-262 Clinical Application—1-2 credits  
Each semester  
A course designed to help the student recognize specific application of techniques to patients. Emphasis on the gases and their therapeutic values will be given. Prerequisite IT 180.

270 Inhalation Therapy Arts—2 credits  
Second semester  
This course is designed to help the inhalation therapy student develop the appreciation of the plight of the patient and the necessity of considerate care. Involved are the physical handling of the patient, an understanding response to his emotional changes, and awareness of his personal responses to his injury or illness. Sterile techniques are learned, as are vital signs. Prerequisite IT 261 and 281.

281-282 Clinical Experience—3 credits  
Each semester  
A sequence of courses designed to give opportunity to apply knowledge gained in the courses described to the clinical disorders. Supervision of the student-patient contacts by an inhalation therapist is constant, in classes of no more than five students for one teacher. The student is encouraged to develop a rather complete concept of disease process including etiology, pathological changes, signs and symptoms, general and specific treatment, prophylaxis, and prognosis. Prerequisite: IT 180.
On page 121 add New Environmental Health course:  

**EH 200 Man and His Environment—3 credits**  
Each semester  
A course designed to reveal the impact of man on his environment with emphasis on the biological, economic and social factors involved, with the aim of preparing the students to be sensitive to the significant issues and factors involved in environmental decision making. Three lecture-discussion periods per week.

On page 129 add Note after Areas of Emphasis (d) Aviation Management:  

A student majoring in the Aviation Management emphasis in General Business may receive 6 semester hours of credit toward the degree if he already has possession of a private or commercial flying certificate in force at the time of application. These six credits would be assigned a grade of “S” and not counted in the computation of grade point average. Further, the student must be of senior standing and a candidate for a degree.  
The individual student would file a written petition for the credit with photostatic copies of his private pilot’s license, current medical certificate, and current Idaho state pilot’s registration certificate.  
Approval of the petition would be required of the flight program director, Chairman of the Department of General Business, and Dean of the School of Business and Public Administration.  
The credits would be recorded as AV 101 and AV 121-122.  
It is emphasized that such credits would apply only to a degree with the Aviation Management emphasis and not toward any other major in the college.

On page 136 add New Economics Course:  

**EC 210 Contemporary Economic Problems—3 credits** Fall semester  
The study of the economic system from the view point of the consumer. A survey of the field of economics in one semester designed especially, but not exclusively, for the non-business student.

On page 176 add the following after Technical Two Year Programs:  

**PT PRE-TECHNICAL—SEQUENCE**  
This is a one semester pre-technical sequence for those students who lack the recommended prerequisite courses deemed necessary to compete, complete and succeed in a regular vocational-technical curriculum, and is offered as a refresher course for those students who have had an excessive period of time elapse since their last formal schooling.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Hours per Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT-010—Blue Print Reading and Basic Mechanical Drawing</td>
<td>4</td>
<td>14 hours (5 Lec. 9 Lab.)</td>
</tr>
<tr>
<td>PT-020—Intro. to Tech. Communications</td>
<td>3</td>
<td>3 hours Lec.</td>
</tr>
<tr>
<td>PT-030—Intro. to Tech. Mathematics</td>
<td>4</td>
<td>5 hours Lec.</td>
</tr>
<tr>
<td>PT-040—Science Survey</td>
<td>4</td>
<td>5 hours Lec.</td>
</tr>
<tr>
<td>PT-050—Technical Orientation</td>
<td>1</td>
<td>3 hours Lec.</td>
</tr>
</tbody>
</table>

Totals: 16 hours 30 hours  
The above non-credit courses are open to all students entering the technical programs in Boise State College.
The above sequence is offered every semester, as student pressure demands and will allow admittance in the spring as well as the fall semester.

**PT PRE-TECHNICAL—COURSES**

010 Blueprint Reading and Basic Mechanical Drawing—4 credit equiv.
An introductory course in blueprint reading, sketching and drafting methods and procedures. 14 hours per week-lecture/lab.

020 Introduction to Technical Communications—3 credit equiv.
A survey course of communication systems, use of technical libraries, forms, reports and technical language, word usage, spelling and proper form emphasized. 3 hours per week-lecture.

030 Introduction to Technical Mathematics—4 credit equiv.
Survey and review of mathematic principles and methods. Uses of mathematics in technical fields with practical examples of application. 5 hours per week-lecture.

040 Science Survey—4 credit equiv.
Review of science as related to technical industry with practical problems and applied solutions. 5 hours per week-lecture.

050 Technical Orientation—1 credit equiv.
A survey course of the technical industry with several field trips and visits from representatives from various concerns that employ technicians. 3 hours per week-lecture.

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On page 182-3 delete the Computer Programmer Trainee Curriculum and all Computer Programming Courses (CP 103, 107, 111-112, 123, 131, 132, 142, 152, 162, 262).