PART VI

Area Vocational Technical School

FACULTY
OBJECTIVES
ADMISSION REQUIREMENTS
TUITION
VOCATIONAL TWO-YEAR PROGRAMS
TECHNICAL TWO-YEAR PROGRAMS
DATA PROCESSING TWO-YEAR PROGRAM
DISTRIBUTIVE EDUCATION TWO-YEAR PROGRAM
ONE-YEAR VOCATIONAL-TECHNICAL PROGRAMS
Vocational Counselor: Mr. Schroeder
Auto Body: Mr. Curtis
Auto Mechanics: Mr. Snell, Mr. Fleshman, Mr. Fuerher
Computer Programming: Mr. Keller, Mr. Maloney, Mr. Severance
Dental Assisting: Dr. Leavitt, Dr. Moore, Mrs. MacInnis
Drafting and Design: Mr. Van Liew, Mr. Weston
Electronics: Mr. Cofield, Mr. Sieber
Horticulture: Mr. Oyler
Machine Shop: Mr. Hager, Mr. Baggerly
Mid-Management: Mr. Scudder, Mr. Knowlton
Office Machine Repair: Mr. Harris, Mr. Millard
Practical Nursing: Mrs. Crowson
Related Instruction: Mr. Tompkins, Mr. Canavan, Mr. Tennyson
Welding: Mr. Buchanan, Mr. 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.

Admission Requirements:
Application materials may be obtained from the Director of Admissions Office, Boise 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 to 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 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 College, Boise, Idaho 83707.
(e) Photos: Two (2) copies of recent photos of yourself—billfold size (2" x 3") 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.

Tuition for Vocational Students:
The State Board for Vocational-Technical Education co-operates with Boise College in financing vocational and technical courses, and has designated this division an Area Vocational-Technical School. Students are admitted on the resident tuition rate, provided they are a resident of the State of Idaho.
AB—AUTO BODY — CURRICULUM

The Auto Body and Refinishing curriculum is designed to provide the student with the background necessary for employment in a shop repairing and refinishing damaged automobiles. Basic laboratory practices of restoring vehicles to their original design, structure, and finish are covered in this course. Some basic glasswork, frame alignment, and upholstery work are also covered. The student is given the opportunity to work on a variety of repair and refinishing 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.

Freshman Year:

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<tr>
<th>Subject</th>
<th>First Semester</th>
<th>Second Semester</th>
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<td>Course No. and Title</td>
<td>Clock Hrs. Credit Hrs.</td>
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<td>AB-101-102 Auto Body Laboratory</td>
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<td>AB-131-132 Related Basic Mathematics</td>
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Sophomore Year:

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<td>AB-262 Industrial Psychology and Job Ethics</td>
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AB AUTO BODY (82) — Courses

101-102 Auto Body Laboratory—8—9 credits

First and second semesters—Training in the basic laboratory skills of hand tools, power tools and painting operations of Auto Body trade. Twenty clock hours per week each semester.

111-112 Communication Skills—3 credits

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—develops communication skill in speaking and writing with emphasis on conversational speaking, clarity and brevity and letter, report, and technical writing. Three clock hours per week each semester.

131-132 Related Basic Mathematics—3 credits

First semester—Review of basic arithmetic and business arithmetic as it applies to the auto body trade. Second semester—Advanced Business arithmetic, shop bookkeeping and estimate writing. Three clock hours per week each semester.

*A hyphen between course numbers indicates that the first numbered course is a prerequisite to the second numbered course; a comma between course numbers indicates either course may be taken independently of the other.
151-152 Related Basic Theory—2 credits
First and second semesters—Study in workbooks—metal working and auto refinishing, shop safety and shop housekeeping. The shop library offers reference books, trade journals and visual aids. As it applies to the Auto Body trade. Lectures and demonstrations are given by personnel from various industries and trades. Four clock hours per week each semester.

201-202 Advanced Auto Body Laboratory—11-8 credits
First and second semesters—Advanced training in basic skills of hand and power tools, painting, frame alignment, panel replacement, and glass replacement. Twenty-three clock hours per week first semester. Twenty clock hours per week second semester. Prerequisite: Auto Body Laboratory AB-102.

241-242 Auto Body Science—3 credits
Each semester
Applied physics and chemistry as it is related to job application of the Auto Body craft. Three clock hours per week each semester.

251-252 Related Advanced Theory—2-3 credits
First and second semesters—Advanced study of subjects and topics covered in AB-151-152. Four clock hours per week first semester and five clock hours per week second semester. Prerequisite: Related Basic Theory AB-152.

262 Industrial Psychology and Job Ethics—2 credits
Second semester
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.

**HO HORTICULTURE SERVICE TECHNICIAN — CURRICULUM**

**HO HORTICULTURE SERVICE TECHNICIAN — Curriculum (94)**

**Freshman Year:**

<table>
<thead>
<tr>
<th>Subject</th>
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**Sophomore Year:**

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<td>HO-231</td>
<td>Related Mathematics</td>
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<td>Related Science</td>
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<td>HO-251-252</td>
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<td>HO-261</td>
<td>Related Salesmanship</td>
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<td>HO-271</td>
<td>Individual Project</td>
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<td>HO-112</td>
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## HO Horticulture Service Technician (94) — Courses

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<th>Credits</th>
<th>Semester</th>
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<tr>
<td>101</td>
<td>Horticulture Laboratory</td>
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<td></td>
<td>Applying the related and theory content to the solution of practical problems in horticulture. Specific areas of application include: exploring occupational opportunities; identification of plants by the use of descriptive terms; identification of 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.</td>
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<tr>
<td>102</td>
<td>Horticulture Laboratory</td>
<td>5</td>
<td>Each semester</td>
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<td></td>
<td>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 94-101.</td>
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<tr>
<td>111-12</td>
<td>Communication Skills — 3 credits</td>
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<td>Each semester</td>
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<td>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 each semester.</td>
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<tr>
<td>131-132</td>
<td>Related Basic Mathematics — 3 credits</td>
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<td>Each semester</td>
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<td>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, payroll income taxes, etc. Three clock hours per week each semester.</td>
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<tr>
<td>141-142</td>
<td>Related Basic Science — 2 credits</td>
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<td>Each semester</td>
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<td>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 each semester.</td>
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<tr>
<td>151-152</td>
<td>Related Basic Theory — 3 credits</td>
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<td>Each semester</td>
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<td>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) soils 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 each semester.</td>
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<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
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<tbody>
<tr>
<td>201</td>
<td>Horticulture Laboratory</td>
<td>5</td>
<td>Each semester</td>
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<td></td>
<td>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.</td>
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<tr>
<td>202</td>
<td>Horticultural Laboratory</td>
<td>5</td>
<td>Each semester</td>
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<td></td>
<td>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.</td>
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<tr>
<td>231</td>
<td>Related Mathematics — 3 credits</td>
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<td>Each semester</td>
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<td></td>
<td>Developing comprehension of the principles of credit and collections by the application of mathematics to the solution of horticultural problems.</td>
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</table>
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—3 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.

252 Related Theory—3 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.

261 Related Salesmanship—3 credits
Developing comprehension of the principles of horticultural salesmanship by the application of psychology and sociology to the solution of sales problems.

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.

**MS MACHINE SHOP — CURRICULUM**

This course consists of shop work and related instruction in the use of hand and basic machine tools together with classroom instruction in problems and technical information related to the trade. Credits in this course of study are not counted toward an academic degree.

**Freshman Year:**

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<tr>
<th>Subject</th>
<th>Course No. and Title</th>
<th>First Semester</th>
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<td>MS 101-102 Machine Shop Laboratory</td>
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**Sophomore Year:**

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<td>MS-201-202 Advanced Machine Shop Laboratory</td>
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<td>MS-241 Advanced Machine Shop Science</td>
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<td>MS-251-252 Related Advanced Theory</td>
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<td>MS-262 Industrial Psychology and Job Ethics</td>
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Vocational - Technical

**MS MACHINE SHOP (95) — Courses**

**101-102 Machine Shop Laboratory—8 credits**

First semester—Introduction to the operating principles of basic machine tools such as the lathe, milling machines, drill press, and grinders. It also includes bench-work, set-ups, safety and good shop practice and theory. Second semester—Training is offered to develop skills in setting up and operating machine tools, use of standard attachments; special attention is given to developing good machine design and work habits. Twenty clock hours per week each semester.

**111-112 Communication Skills—3 credits**

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 each semester.

**131-132 Related Basic Mathematics—3 credits**

First semester—A review of the fundamentals of arithmetic is offered with special emphasis on decimals and elementary arithmetic problems as applied to machine tools and machinery problems. Second semester—Fundamentals of algebra and geometry as they relate to the machine trade. Three clock hours per week each semester.

**141-142 Machine Shop Science—2 credits**

First semester—(Drawing and Blueprints). Instruction in layout and design as it relates to machinists, reading and interpreting blueprints; free hand sketching skills are developed. Second semester—(Physics). A study of force, lever, pulley wheel, incline plane wedge, and friction; gear speeds and sizes. A study of the nature of metals, production of metals, analysis of tool steels and heat treating. Four clock hours per week each semester.

**201-202 Advanced Machine Shop Laboratory—8 credits**

First semester—A continuation of basic machine shop operation involving manipulative training and increased skill in the operation of planers, shapers, milling machines, lathes, drill presses, tool and cutter grinders, surface grinders and heat treating. Second semester—The student is allowed to work as he would in industry with a minimum amount of supervision. Each graduating student is required to make a mechanism of his own selection that is standard and has been approved and used in industry. Twenty clock hours per week each semester. Prerequisite: Machine Shop Laboratory MS-102.

**231-232 Related Advanced Mathematics—3 credits**

First semester—Principles of shop trigonometry, threading speeds and feeds, gearing and indexing. Second semester—Algebra and trigonometry tables and other materials with the application to formulas. Emphasis on advanced jig and fixture design, bearing load calculations, gear stress and strain capacity calculations. Students will use the machinery handbook throughout the course. Three clock hours per week each semester. Prerequisite: Related Basic Mathematics MS-132.

**241 Advanced Machine Shop Science—3 credits**

Metals and their properties; alloys and their characteristics and reactions in machinery; coolants, lubricants, cutting oils, chip-action, casting extrusion, dies, billets, welding assemblies, strength and stress of materials. Inspection process of finished work is a part of the course. Three clock hours per week each semester. Prerequisite: Machine Shop Science MS-142.

**251-252 Related Advanced Theory—2-3 credits**

First semester—Review of “Ford’s Shop Theory” text. Reading and studying from current machinery catalogs and trade magazines involving new trends, materials, equipment, and techniques as they are being developed in modern machine industry. Second semester—Advanced theory as related to the machine trade. Company contacts are a part of the course. Safety and good work

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habits are stressed. Proper care and function of tools and machines not found in the school shop. Field trips and resource persons contribute to this course content. Four clock hours per week, first semester and five clock hours per week second semester. Prerequisite: Machine Shop Science MS-142.

262 Industrial Psychology and Job Ethics—2 credits Second semester
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.

OM OFFICE MACHINE REPAIR — CURRICULUM

The course and outline in Office Machine Repair has been developed to give the student of the course enough basic knowledge to be productive and able to perform the average job without any additional training. 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. This is a two-year course and credits are not counted toward an academic degree.

Freshman Year:

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<tr>
<th>Subject</th>
<th>Course No. and Title</th>
<th>First Semester</th>
<th>Second Semester</th>
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Sophomore Year:

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<td>Clock Hrs.</td>
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<tr>
<td>OM-231-232 Advanced Mathematics</td>
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<td>OM-241-242 Advanced Science</td>
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<td>OM-251-252 Advanced Theory</td>
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<td>OM-262 Industrial Psychology and Job Ethics</td>
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**OM OFFICE MACHINE REPAIR (96) — Courses**

101-102 Office Machine Repair Laboratory—5 credits Each semester
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 platens; 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 adjust-
Vocational - Technical

I

Elements 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 each semester.

111-112 Communication Skills—3 credits
Each semester
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 each semester.

131-132 Related Basic Mathematics—3 credits
Each semester
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 each semester.

141-142 Related Basic Science—2 credits
Each semester
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 each semester.

151-152 Related Basic Theory—3 credits
Each semester
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 mechanical drawings, as well as the printed descriptions accompanying them. Five clock hours per week each semester.

201-202 Office Machine Repair Laboratory—5 credits
Each semester
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 mechanical methods used in machine calculations covering basic principles. Fifteen clock hours per week each semester. Prerequisite: Office Machine Repair Laboratory OM-102.

231-232 Related Advanced Mathematics—3 credits
Each semester
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 each semester. Prerequisite: Related Basic Mathematics OM-132.

241-242 Related Advanced Science—3-2 credits
Each semester
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 second semester. Prerequisite: Related Basic Science OM-142.

251-252 Related Advanced Theory—3 credits
Each semester
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 multiplication, 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 and Job Ethics—2 credits First semester
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.

W WELDING — CURRICULUM

The welding course is designed to train for industry men qualified and capable of accurate, quality production. They will be able to obtain and hold employment and, with the experience gained, should be capable of advancing in this field. The course of study will be altered to correspond with advancements in new welding procedures. Credits in this course of study are not counted toward an academic degree.

Freshman Year:
Subject Course No. and Title | First Semester Clock Hrs. Credit Hrs. | Second Semester Clock Hrs. Credit Hrs.
--- | --- | ---
W-101-102 Welding Laboratory | 20 8 | 20 8
W-111-112 Communication Skills | 3 3 | 3 3
W-131-132 Related Basic Mathematics | 3 3 | 3 3
W-151-152 Related Basic Theory | 4 2 | 4 2

Sophomore Year:
Subject Course No. and Title | First Semester Clock Hrs. Credit Hrs. | Second Semester Clock Hrs. Credit Hrs.
--- | --- | ---
W-201-202 Advanced Welding Laboratory | 22 9 | 23 9
W-231-232 Related Advanced Mathematics | 3 3 | 3 3
W-241-242 Welding Science | 3 2 | 4 4
W-262 Industrial Psychology and Job Ethics | 2 2 | ---

W WELDING (99) — Courses

101-102 Welding Laboratory—8 credits Each semester
Set up acetylene burning equipment and the proper use of this equipment while burning plate, structural shapes, and pipe by both the manual and automatic burning methods; oxy-acetylene welding of mild steel sheet and pipe of small diameter; brazing, soldering, and cast iron welding. Basic arc welding, using mild steel (E6010) electrodes on flat plate and progressing through multiple pass fillet weld in all positions. Rate of advancement from one position to the next left to the progress and ability of the student. Second semester—Groove welds, using the E6010 (mild steel) electrodes and the mild steel “jet” type electrodes (E7018) low hydrogen electrodes. The time allotted to the processes listed above will vary with the demands of industry. The student’s learning will be further aided by application of these processes on small construction or repair projects. Twenty clock hours per week each semester.

111-112 Communication Skills—3 credits Each semester
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 each semester.

131-132 Related Basic Mathematics—3 credits
Each semester
First semester—Basic review of addition, subtraction, multiplication and division of fractions, decimals and mixed numbers with application to basic blueprint reading and layout problems; relationship between blueprint reading and weld symbols. Second semester—Study of the scales, ratios, percentages, slopes, and the framing square in blueprint problems of lay-out and jiggling with application of shop math to prints and lay-out problems. Three clock hours per week each semester.

151-152 Related Basic Theory—2 credits
Each semester
First semester theory begins with the study of shop safety rules, safe shop practices, and learning the set-up, care and maintenance of oxy-acetylene equipment, also oxy-acetylene burning, welding and brazing methods and processes. Then the study of arc welding equipment and methods is taken up, followed by welding techniques with the mild steel (E6010) electrodes in all positions. Special attention is given to warpage weld sequences, and their effects on mild steel. Second semester—The extensive study of techniques and uses of E6010, E6024, and E7018 electrodes is the prime subject matter. Material identification, rod selection, heat effects, warpage, sequences, etc., will also be studied. Four clock hours per week each semester.

201-202 Advanced Welding Laboratory—9 credits
Each semester
First semester—Pipe welding in the horizontal and vertical fixed positions. Electric arc and Heliarc. Second semester—Heliarc and semi-automatic inert gas welding of similar and dissimilar metals and exotic metals. Stress relaxing and heat treatment of metals. Twenty-two clock hours per week first semester and twenty-three clock hours per week second semester. Prerequisite: Welding Laboratory W-102.

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

241-242 Welding Science—2-4 credits
Each semester
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, behavior and influences of alloys in irons, steels and exotic metals, thermal curves, freezing alloys, structural composition, changes in the solid state and carbon precipitation and its effect on the chrome steels. Weldability of these metals. Three clock hours per week first semester and four clock hours per week second semester.

262 Industrial Psychology and Job Ethics—2 credits
First semester
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.

TECHNICAL TWO-YEAR PROGRAMS
AT AUTO MECHANICS TECHNOLOGY—CURRICULUM

This course provides students with the background and principles necessary for a vocation in the automotive field or in any one of the allied fields associated directly or indirectly with the automotive trade.

A year of auto mechanics is usually required of students who wish to specialize in diesel. Credits in this course of study are not counted toward an academic degree.

*A hyphen between course numbers indicates that the first numbered course is a prerequisite to the second numbered course; a comma between course numbers indicates either course may be taken independently of the other.
<table>
<thead>
<tr>
<th>Subject</th>
<th>Course No. and Title</th>
<th>First Semester</th>
<th>Second Semester</th>
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<td>AT AUTO MECHANIC TECHNOLOGY (84) — Courses</td>
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<td>101 Automotive Laboratory</td>
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<td>AT-111-112 Communication Skills</td>
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<td>3 3</td>
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<tr>
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<td>AT-131-132 Related Basic Mathematics</td>
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<td>3 3</td>
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<td>AT-151-152 Related Basic Theory</td>
<td>6 4</td>
<td>4 3</td>
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<td>102 Automotive Laboratory</td>
<td>AT-201-202 Advanced Automotive Laboratory</td>
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<td>AT-241-242 Automotive Science</td>
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<td>AT-251-252 Related Advanced Theory</td>
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<td>8 6</td>
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<td>AT-262 Industrial Psychology and Job Ethics</td>
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<td></td>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

**AT AUTO MECHANIC TECHNOLOGY (84) — Courses**

- **101 Automotive Laboratory** — 6 credits
  - First semester
    - Training in the basic skills of hand tools, measuring tools and other equipment relative to disassembling, cleaning, measuring and assembling of: engine and related parts, basic carburetion and electrical system. Shop safety, cleanliness, and shop procedures are also included. Three hours lecture and 15 hours laboratory per week.

- **102 Automotive Laboratory** — 7 credits
  - Second semester
    - Training in the basic skills of hand tools, measuring tools, power machine operation and test equipment relative to the repair and adjustment of complete engine rebuilding; carburetor and electrical units. Trouble shooting and tuneup. Work done on units out of the vehicle. Shop safety, cleanliness and shop procedures are included. Five hours lecture and 15 hours laboratory per week. Prerequisite: Automotive Laboratory and Lecture AT-101.

- **111-112 Communication Skills** — 3 credits
  - Each semester
    - 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 per semester.

- **131 Related Basic Mathematics** — 3 credits
  - First semester
    - Review of Basic Arithmetic covering addition, subtraction, multiplication and division of whole numbers and fractions pertaining to automotive trade. Three clock hours per week.

- **132 Related Basic Mathematics** — 3 credits
  - Second semester
    - Review of fractions, decimals, percentages, discounts and taxes as applicable in developing the student's skills in work order forms, trade business mathematics, trade bookkeeping, buying and selling cost, ordering, taxes, etc. Three clock hours per week. Prerequisite: Related Basic Mathematics AT-131.
151 Related Basic Theory—4 credits  
First semester  
Basic fundamentals and physics of operation and materials in disassembling, cleaning, and measuring. Identification of model and parts of the following units: Engine, fuel system, electrical system. Purchasing of personal tools and equipment; not furnished by college. Safety, housekeeping and shop procedures. Six clock hours per week.

152 Related Basic Theory—3 credits  
Second semester  
Basic fundamentals and physics of operation and materials in repairing and testing the following units: Engine, carburetor and electrical units. Basic operation of test equipment. Shop safety and cleanliness. Four clock hours per week. Prerequisite: Related Basic Theory AT-151.

201 Advanced Automotive Laboratory and Lecture—8 credits  
First semester  
Advanced training in testing and repair of ignition systems, engine tuneup using electrical tune-up equipment, testing and repair of fuel systems, testing and repair of automotive electrical systems, shop procedure, including safety, cleanliness, personal as well as shop. Twenty clock hours per week. Prerequisite: Automotive Laboratory and Lecture AT-102.

202 Advanced Automotive Laboratory and Lecture—8 credits  
Second semester  
Instruction and practical experience in meeting the public, making out work orders; overhauling brake systems, front wheel suspension, power train assemblies, standard transmissions and overdrive, differential assemblies, clutches; trouble shooting problems of the above items. Twenty clock hours per week. Prerequisite: Advanced Automotive Laboratory and Lecture AT-201.

241 Automotive Science—2 credits  
First semester  
Advanced training in engine trouble shooting, ignition system construction and operation, fuel system construction and operation, and automotive electrical systems. Two clock hours per week.

242 Automotive Science—2 credits  
Second semester  
Advanced training in brake systems, trouble shooting and construction, front suspension construction and operation, power train service, clutches, standard transmissions and overdrive, drive line service, and differential service. Two clock hours per week. Prerequisite: Automotive Science AT-241.

251 Related Advanced Theory—4 credits  
First semester  
Advanced training in ignition system components and their functions, fuel system components and their functions, electrical system components and operations. Six clock hours per week. Prerequisite: Related Basic Theory AT-152.

252 Related Advanced Theory—6 credits  
Second semester  
Study in the theory of brake system construction and operation, front wheel suspension, construction, and operation, wheel alignment, power train components, operation and construction of clutches, standard transmissions, overdrives, drive lines, differential assemblies and meeting the public as a service manager. Eight clock hours per week. Prerequisite: Related Advanced Theory AT-251.

262 Industrial Psychology and Job Ethics—2 credits  
First semester  
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.

D.D. DRAFTING & DESIGN TECHNICIANS — 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 & Design curriculum is open to both male and female students.
### Freshman Year:

<table>
<thead>
<tr>
<th>Subject</th>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
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<td>Course No. and Title</td>
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<td>Credit Hrs.</td>
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<tr>
<td>DD-101-102 Drafting</td>
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<td>DD-111-112 Communication Skills</td>
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<td>DD-131-132 Drafting &amp; Design Technical Mathematics</td>
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<tr>
<td>DD-141 Manufacturing Processes Drafting</td>
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<td>DD-142 Drafting &amp; Design Applied Physics</td>
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<tr>
<td>DD-152 Descriptive Geometry</td>
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**Total:** 30 16

### Sophomore Year:

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<th>Subject</th>
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<th>Second Semester</th>
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<td>Course No. and Title</td>
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<td>Credit Hrs.</td>
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<tr>
<td>DD-201-202 Advanced Drafting &amp; Design Laboratory and Lecture</td>
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<tr>
<td>DD-231-232 Advanced Drafting &amp; Design Technical Mathematics</td>
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<tr>
<td>DD-241-242 *Advanced Drafting &amp; Design Science</td>
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<td>DD-262 Industrial Psychology and Job Ethics</td>
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</table>

**Total:** 30 16

### DD DRAFTING AND DESIGN TECHNOLOGY (90) — Courses

**101-102 Drafting Laboratory and Lecture** — 8-6 credits  
First 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. Second semester—A continuation of 90-101 with special emphasis placed on machine, architectural, piping, electrical, and structural drafting and design. Twenty clock hours per week first semester. Five hours lecture and 15 hours laboratory; 18 clock hours per week second semester, five hours lecture and 13 hours laboratory.

**111-112 Communication Skills** — 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.

**131-132 Drafting and Design Technical Mathematics** — 3 credits  
First semester—Fundamentals of basic mathematics, algebra, geometry and descriptive geometry and their application to problems likely to be encountered by the draftsman. Use of slide rule. Second semester—Basic trigonometric functions and tables of functions and their use. Logarithms, multiplication, division, powers and roots, and the solution of problems involving logarithms. Four clock hours per week each semester.


†A hyphen between course numbers indicates that the first numbered course is a prerequisite to the second numbered course; a comma between course numbers indicates either course may be taken independently of the other.
141 Manufacturing Processes—2 credits  
First semester  
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.

142 Drafting & Design Applied Physics—2 credits  
Second semester  
A general survey of physics with emphasis on the practical application needed by draftsmen. Introduction to applied mechanics and its application in the solution of problems involving statics. Prerequisite: Drafting and Design Technical Mathematics DD-131. Three clock hours per week.

152 Descriptive Geometry—2 credits  
Second semester  
Theory and practice of co-ordinate projection applied to the solution of properties of points, lines, planes and solids, with practical engineering applications. Two clock hours per week.

201-202 Advanced Drafting Laboratory and Lecture—6-8 credits  
Each semester  
Advanced techniques in drafting, problems on design level in the various fields served by Drafting and Design Technicians. Eighteen clock hours per week first semester, six hours lecture and 12 hours laboratory; twenty clock hours per week second semester, seven hours lecture and 13 hours laboratory. Prerequisite: Drafting Laboratory and Lecture DD-102.

231-232 Advanced Drafting & Design Mathematics—4 credits  
Each semester  
Advanced Algebra, trigonometry and analytical geometry with emphasis on their application in design situations. Five clock hours per week each semester. Prerequisite: Drafting and Design Technical Mathematics DD-132.

241-242 Advanced Drafting & Design Science—4 credits  
Each semester  
First semester—An introduction to Dynamics which deals with the motion of rigid bodies and with the forces that produce or change their motion. Second semester—Includes strength and properties of material and basic chemistry. Five clock hours per week each semester.

262 Industrial Psychology and Job Ethics—2 credits  
First semester  
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 curricula 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 male and female students.

### ELECTRONICS TECHNOLOGY

**Freshman Year:**

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<thead>
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<th>Subject</th>
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<th>Second Semester</th>
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<td>ET-101-102 Electronics Laboratory and Lecture</td>
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<td>ET-111-112 Communication Skills</td>
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<td>3</td>
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<tr>
<td>ET-131-132 Basic Electronics Math</td>
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<td>4</td>
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<tr>
<td>*ET-141-142 Electronics Science</td>
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<td><strong>Total</strong></td>
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*Course includes Electronics Drafting and Physics.*
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<td>ET-201-202 Advanced Electronics Laboratory</td>
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<tr>
<td>ET-231-232 Advanced Electronics Math</td>
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<td>ET-241-242 Advanced Electronics Science</td>
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<td>ET-251-252 Advanced Electronics Theory</td>
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<td>ET-262 Industrial Psychology &amp; Job Ethics</td>
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<tr>
<td>101 Electronics Laboratory and Lecture—7 credits</td>
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<tr>
<td>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. Twenty clock hours per week. Ten hours lecture and ten hours laboratory.</td>
</tr>
<tr>
<td>102 Electronics Laboratory and Lecture—7 credits</td>
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<tr>
<td>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. Twenty clock hours per week. Prerequisite: Electronics Laboratory and Lecture ET-101. Ten hours of lecture and ten hours laboratory.</td>
</tr>
<tr>
<td>111-112 Communication Skills—3 credits</td>
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<tr>
<td>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.</td>
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<tr>
<td>131-132 Basic Electronics Mathematics—4 credits</td>
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<tr>
<td>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 each semester.</td>
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<tr>
<td>141-142 Electronics Science—2 credits</td>
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<tr>
<td>Designed to instruct the student in practice of drawing schematics, developing 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 each semester.</td>
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<tr>
<td>201-202 Advanced Electronics Laboratory—5 credits</td>
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<tr>
<td>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. Fifteen clock hours per week each semester. Prerequisite: Electronics Laboratory and Lecture ET-102.</td>
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<tr>
<td>231-232 Advanced Electronics Mathematics—3 credits</td>
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<td>The student will be concerned with advanced trigonometry, analytical geometry, and introduction to calculus. Five clock hours per week each semester. Prerequisite: Basic Electronics Mathematics ET-132.</td>
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<tr>
<td>241-242 Advanced Electronics Science—4 credits</td>
</tr>
<tr>
<td>Basic physics as it applies to the electronic technician's needs. This course deals with mechanics, heat, sound, and light. Five clock hours each semester. Prerequisite: Electronics Science ET-142.</td>
</tr>
</tbody>
</table>
251-252 Advanced Electronics Theory—2-4 credits

First 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. Second semester—Covers the theory and design of computers, thyatrons, transistors, servo and syncro principles. Three clock hours per week first semester and five clock hours per week second semester.

252 Industrial Psychology and Job Ethics—2 credits

First semester—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.

DISTRIBUTIVE EDUCATION TWO-YEAR PROGRAMS

**MM FASHION MERCHANDISING—MID-MANAGEMENT CURRICULUM**

<table>
<thead>
<tr>
<th>Freshman Year:</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Business</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Retail Selling</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Clothing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Business Mathematics/Machines</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Clothing Selection</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Textiles</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elements of Management</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Principles of Advertising</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Mid-Management Work Experience</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Physical Education Activities</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>17</strong></td>
<td><strong>17</strong></td>
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<table>
<thead>
<tr>
<th>Sophomore Year:</th>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>Introduction to Marketing</td>
<td>3</td>
<td></td>
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<tr>
<td>Costume Design</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Introduction to Public Speaking</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Retail Buying</td>
<td>3</td>
<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>
</tr>
<tr>
<td>Principles of Retailing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Principles of Accounting</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Business Psychology</td>
<td>3</td>
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<tr>
<td>Supervision of Personnel</td>
<td>3</td>
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<tr>
<td>Physical Education Activities</td>
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<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>16</strong></td>
<td><strong>15</strong></td>
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</table>

**MM MARKETING—MID-MANAGEMENT—CURRICULUM**

<table>
<thead>
<tr>
<th>Freshman Year:</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>4</td>
</tr>
<tr>
<td>Retail Selling</td>
<td>3</td>
<td></td>
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<tr>
<td>Principles of Advertising</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Merchandise Analysis</td>
<td></td>
<td>3</td>
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<tr>
<td>Mid-Management Work Experience</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Elements of Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Introduction to Public Speaking</td>
<td>2</td>
<td></td>
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<tr>
<td>Physical Education Activities</td>
<td>1</td>
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<td></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>Principles of Retailing</td>
<td>-</td>
<td>3</td>
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<tr>
<td>Principles of Economics</td>
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<td>-</td>
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<tr>
<td>Principles of Accounting</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Business Psychology</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Report Writing</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Supervision of Personnel</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Retail Buying</td>
<td>3</td>
<td>-</td>
</tr>
<tr>
<td>Credit and Collections</td>
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<td>2</td>
</tr>
<tr>
<td>Mid-Management Work Experience</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Physical Education Activities</td>
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<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
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</table>

### MM MARKETING, MID-MANAGEMENT (11) — Courses

Course offerings are described on pages 126-127.

## ONE YEAR VOCATIONAL-TECHNICAL PROGRAMS

### CP COMPUTER PROGRAMMER TRAINEE CURRICULUM

This curriculum is an 11 month program of study and experience in Computer Programming. The graduate of this program of study will be eligible for employment as a Computer Programmer Trainee in business, industry, or government. In such a job, the graduate works under immediate supervision and in a 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.

### CONTACT HOURS/WEEK AND CREDIT HOURS

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
<th>Summer Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-101 Data Processing Fundamentals</td>
<td>6-3</td>
<td>3-3</td>
<td>3-3</td>
</tr>
<tr>
<td>CP-111 Programming Fundamentals and Lab.</td>
<td>8-2</td>
<td>8-2</td>
<td>8-2</td>
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<tr>
<td>CP-121 Computer Systems and Lab.</td>
<td>8-2</td>
<td>8-2</td>
<td>8-2</td>
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<tr>
<td>CP-142 Computer Programming—RPG</td>
<td>8-3</td>
<td>8-3</td>
<td>8-3</td>
</tr>
<tr>
<td>CP-152 Computer Programming—COBOL</td>
<td>8-3</td>
<td>8-3</td>
<td>8-3</td>
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<tr>
<td>CP-162 Computer Programming—FORTRAN</td>
<td>8-3</td>
<td>8-3</td>
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<tr>
<td>CP-173 Computer Programming—ASSEMBLERS</td>
<td>20-4</td>
<td>20-4</td>
<td>20-4</td>
</tr>
<tr>
<td>CP-183 Computer Programming—Operating Systems</td>
<td>10-2</td>
<td>10-2</td>
<td>10-2</td>
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<tr>
<td>CP-131-132 Mathematics for Data Processing</td>
<td>3-3</td>
<td>3-3</td>
<td>3-3</td>
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<tr>
<td>CP-111-112* Communications Skills</td>
<td>3-3</td>
<td>3-3</td>
<td>3-3</td>
</tr>
<tr>
<td>CP-262 Industrial Psych. and Job Ethics</td>
<td>2-2</td>
<td>2-2</td>
<td>2-2</td>
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<tr>
<td><strong>TOTALS</strong></td>
<td><strong>30-15</strong></td>
<td><strong>30-15</strong></td>
<td><strong>30-6</strong></td>
</tr>
</tbody>
</table>

### CP COMPUTER PROGRAMMING ( )

101 Data Processing Fundamentals—3 credits

This course introduces the student to data processing. Manual, mechanical, punched card and electronic data processing systems will be studied as well as the business and scientific application of these systems. Flowcharting, documentation and punched card equipment will be covered with practical experience to familiarize the student with the applications of machines. Six clock hours per week.

*May be waived upon proof of proficiency by examination.
105  Programming Fundamentals and Lab—2 credits  Fall semester
Concepts, logic and techniques of basic programming. Problem flowcharting and coding of input-output operations, loops, switching routines, branches, indexing and other basic programming techniques. Eight clock hours per week.

111-112  Communications Skills—3 credits  Each semester
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.

121  Computer Systems and Lab—2 credits  Fall semester
This course describes the functional characteristics and general principles of operation of modern computers. Topics include central processing unit; program execution; programming systems; input/output channels; control units and devices; magnetic tape concepts; direct access storage concepts; multi-programming, multi-processing and tele-processing. Eight clock hours per week.

131-132  Mathematics for Data Processing—3 credits  Each semester
The principles presented in this course will be applied in computer programming and will include basic algebra, number systems, logarithms, linear equations, fixed and floating point numbers, Boolean algebra and logic. Three clock hours per week.

142  Computer Programming—RPG—3 credits  Spring semester
The student will write specifications for jobs using card, tape or disk input files and stored tables to produce printed reports, punched cards, tape and/or disk output files using the Report Program Generator Programming System. Eight clock hours per week.

152  Computer Programming—COBOL—3 credits  Spring semester
The student will compose complete COBOL programs working from system and program flowcharts. He will determine what results will be obtained when data moving, editing, arithmetic and logical operations are executed; write efficient procedural entries; and construct program switches, subroutine linkage, loop control and data tables. Eight clock hours per week.

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

173  Computer Programming—ASSEMBLERS—4 credits  Summer session
The Student will code, utilizing efficient coding techniques, problems in assembler language using standard and decimal instructions, and debug them using the program listing and other aids. Twenty clock hours per week.

183  Computer Programming (OPERATING SYSTEMS)—2 credits  Summer Session
The student will learn the general organization of operating systems; data management, system control and system service functions; and be able to encode the instructions necessary to implement these functions and facilities. Ten clock hours per week.

262  Industrial Psychology and Job Ethics—3 credits  First semester
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.

DA  DENTAL ASSISTANT — CURRICULUM

The Dental Assisting Program, consisting of Dental Assistant Theory and Dental Laboratory, is a one year terminal course. This course of study consists of those subjects deemed most important for qualified dental assistants. The Dental Advisory Board continues to work with Boise State College in planning and promoting a program that will be acceptable to the American Dental Assistant Association.
Entrance Requirements: High school diploma or Equivalency Certificate, acceptable grades on the A.C.T. test or 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.

**Freshman Year:**

<table>
<thead>
<tr>
<th>Subject</th>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Clock Hrs.</td>
<td>Credit Hrs.</td>
</tr>
<tr>
<td>DA-101-102 Dental Laboratory</td>
<td>16</td>
<td>5</td>
</tr>
<tr>
<td>DA-111-112 Communication Skills</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>DA-151-152 Dental Theory</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>DA-262 Job Psychology and Ethics</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>MM-213 Credit and Collections-DE</td>
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<td>2</td>
</tr>
<tr>
<td>SP-111 Fundamentals of Speech</td>
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<td></td>
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<tr>
<td>PE-121 Personal and Public Health</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td>30</td>
<td>16</td>
</tr>
</tbody>
</table>

**DA DENTAL ASSISTING (87) — Courses**

101-102 Dental Laboratory—5 credits

Practical clinical and laboratory training in the field of dental assisting. This course includes training in actual office experience under the direct guidance of licensed dentists in the Boise-Nampa area. The course is taken in conjunction with DA-151 and DA-152. Included in the training is: chairside assisting; charting dental x-ray and developing; pouring of models and preparing base plates; some wax carving of inlay patterns and gold casting; care and use of equipment; and sterilizing and care of all instruments. 16 clock hours per week each semester.

111-112 Communication Skills—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.

151-152 Dental Theory—4-3 credits

A comprehensive introduction to basic theory relating to dental assisting. The course includes lecture time pertaining to: chairside assisting, receiving patients, and patient education; dental office management, bookkeeping, recall systems, appointment book, dental supplies and records; dental anatomy; sterilization; dental x-ray; oral surgery, periodontia and nutrition; oral hygiene, pedodontia and orthodontia; equipment and instruments. Seven clock hours per week first semester and six clock hours per week second semester.

262 Job Psychology and Ethics—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 first semester.
**PRACTICAL NURSING PROGRAM**

The practical nursing program, in cooperation with St. Luke's 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 complete certificate 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.

**Admission:**

Entrance requirements: High School graduation or General Educational Development Test, aptitude testing by Employment Security Agency, complete physical and dental examination, and interview with local Advisory Committee, which controls final selection of the candidates, as well as dismissal from the program.

Classroom work consists of 600 hours of theory in the needs of humans in health and in sickness, with emphasis on the practical nurse’s part in meeting these needs.

Clinical experience consists of 1200 hours of supervised hospital nursing experience in caring for patients with medically and surgically treated conditions, caring for sick children, and caring for new mothers and infants. Students are taken on field trips to specific health agencies in the community.

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

**Contact Director of Vocational Education, Boise State College, Boise, Idaho, for application and information.
FULL-TIME FACULTY*

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

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

ALLISON, THELMA F., Associate Professor .... 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.

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

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

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

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

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

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

BARNES, JOHN B., Professor of Education .... President (1967)
B.A., M.A., University of Denver; Ed.D., University of Wyoming.

BARRETT, GWYNN, Associate Professor .... History (1968)
B.S., Utah State University; M.A., University of Hawaii; Ph.D., Brigham Young University.

BARSNESS, JOHN, Professor .... English (1968)
A.B., William Jewell College; M.A., Montana State University; Ph.D., University of Minnesota.

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

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

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

BEST, JOHN H., Associate Professor .... Orchestra, Cello, Theory (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.

BLICHENSTAFF, V. DALE, Associate Professor .... Accounting (1967)
B.S., McPherson College; M.S., Fort Hays State College; Ed.D., Colorado State College; Oklahoma State University.

BOYER, DALE, Instructor .... English (1968)
B.A., M.A., University of Oregon; Ph.D., University of Missouri.

*Correct to June, 1968.
Boise State College

BRATT, C. GRIFFITH, Professor. Theory, Choir, Organ (1946)
Mus.M., Artist's diploma in Organ, Peabody Conservatory of
Music, Baltimore, Md., A.A.G.O., University of Baltimore; Johns
Hopkins University; University of Utah, Composer in Residence.

BRONSON, WILLIAM S., Professor. Psychology (1954)
B.A., M.A., University of Idaho; Washington State University;
Ed.D., University of Colorado.

BUCHANAN, JAMES R., Assistant Professor. Welding (1959)
Heli-arc School of Welding for Bechtel Corporation, San Fran-
cisco; Heli-arc School, Atomic Energy Commission, Arco, Idaho,
and Paducah, Kentucky; Vocational Education, National Defense,
Boise; Boise Junior College; Idaho State College.

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

BURNS, AILEEN I., Instructor. English (1967)
University of Auckland, New Zealand; B.A., M.A., Brigham
Young University.

CANAVAN, THOMAS J., Instructor. Vocational Related Subjects (1964)
A.B., University of Illinois, Colorado State University.

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

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

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

CHANDLER, LUANNE, Instructor. Office Administration (1964)
B.A., San Jose State College; M.Ed., Montana State University;
University of Nevada; University of Idaho.

CHATBURN, ACEL H. Professor of Education
Director of Educational Services (1944)
B.A., College of Idaho; University of Idaho; M.A., University of
Colorado; Ed. D., Washington State University; University of
California at Berkeley.

CHATERTON, WAYNE, Professor. English (1968)
University of Utah; University of Colorado.
Diploma, Albion Normal; B.S., M.A., Brigham Young University; Ph.D.,

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

COLLINS, MARCUS W., Professor. Sociology (1967)
A.B., University of Alabama; M.A., The George Washington Un-
iversity; A.M., Ph.D., Harvard University, The Johns Hopkins
University, Heidelberg University.

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

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

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

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

CROMWELL, LARRY D., Assistant Professor. Art (1966)
B.S., Fort Hays Kansas State College; M.A., Colorado State
College.
CROOKS, ALAN F., Assistant Professor .......................... English (1965)
B.A., College of Idaho; M.A., Utah State University.

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

CURTIS, BILL DARRELL, Instructor .................. Auto Body (1966)
Diploma, Boise Junior College.

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

DALTON, JACK L., Associate Professor .................. Chemistry (1958)
B.S., Nebraska State Teachers College; M.S., Kansas State University of Agriculture and Applied Science; Kansas State College.

DAVIS, ALVA J., Assistant to Dean of Student Personnel Services
B.A., Drake University; B.Th., Northwestern Christian College

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

DE NEUFVILLE, ROBERT, Associate Professor .......................... German, French (1940)
B.A., M.A., New College, Oxford; Dr. Jr., Marburg University; Geneva University; Berlin University; Columbia University; Middlebury College.

DEWEY, ROBERT M., Instructor .................. Speech, Drama (1967)
B.A., College of Great Falls; M.A., University of Washington.

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

DUGGER, JEROLD O., Professor .......................... Education (1964)
A.A., Scottsbluff Junior College; B.A., Hastings College; M.A., Ed.D., Colorado State College; University of Colorado.

EDELESEN, CLISBY T., Professor .................. Office Administration (1939)
B.A., College of Idaho; M.S.(Ed.), University of Idaho; Armstrong Business College; Berkeley, California; Ed.D., Stanford University.

EMERSON, J. CALVIN, Associate Professor .................. 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.

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

FAIRCHILD, MARJORIE E., Assistant Professor .................. 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.

FARWIG, JEANNE M., Instructor .................. Physical Education (1966)
B.S., University of Colorado; M.A., Colorado State College.

FLANARY, CAROL, Instructor .................. Nursing (1968)
B.S., Brigham Young University.

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

FLESHMAN, MILTON B., Assistant Professor .................. 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 Services Courses.

FOUNTAIN, CAROL E., Instructor .................. Nursing Education (1967)
A.S., Boise Junior College; B.S. in Nursing, University of Washington.

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

FRITZMAN, HARRY K., II, Professor Life Sciences (1954) 
A.A., Boise Junior College; B.A., M.A., Ph.D., University of California at Berkeley; University of Oregon.

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

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

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

GINES, RALPH J., Assistant Professor Accounting (1967) 
B.S., Brigham Young University; L.L.B., George Washington University.

GLENDINNING, MOLLIE, Instructor Practical Nurse Training (1964) 
R.N., Wyckoff Heights Hospital School of Nursing; U.S. Navy Nurse Corps; Idaho State University.

HAGENBERG, W. L., Vice President (1947) Acting President (12/66-6/67) 
B.A., University of North Dakota; M.A., University of Montana; University of Oregon; University of Washington; La Escuela Interamericana, Saltillo, Mexico; U.S. Department of State Education Specialist to the Caribbean and Latin America.

GOULD, C. WALLACE, Associate Professor Music, History (1966) 
B. Mus., M. Mus., Oberlin College; Ph.D., Northwestern University.

HAGER, JOHN F., Associate Professor Machine Shop (1954) 
Warren Trade School, Los Angeles; Idaho State College.

HAIN, CLAYTON W., Assistant Professor 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.

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

HART, RICHARD, Assistant Professor Economics (1968) 
B.S., M.S., Utah State University.

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

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

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

HILL, KENNETH L., Associate Professor Director, Instructional Materials Center (1962) 
B.S., Montana State College; M.S. (Ed.), University of Washington; University of Idaho; Eastern Washington State College.

HOLLINBAUGH, KENNETH, Assistant Professor Chemistry (1968) 
B.S., Bowling Green State Univ.; M.S., Ph.D., Univ. of Idaho.

HOPFENBECK, THEODORE, Instructor Criminology (1967) 
B.S., M.Ed., University of Arizona.

HOYER, DORIS, Associate Professor Education (1965) 
B.S., M.S. (Ed.), M.A., University of Idaho.

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<th>Name</th>
<th>Position</th>
<th>Field</th>
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<tr>
<td>HUFF, HOWARD L.</td>
<td>Instructor</td>
<td>Art</td>
<td>1965</td>
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<td></td>
<td></td>
<td>Diploma, Boise Junior College; B.A., College of Idaho; M.F.A., University of Idaho.</td>
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<tr>
<td>HUNT, ELMER E., JR.</td>
<td>Assistant Professor</td>
<td>Mathematics</td>
<td>1959</td>
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<td></td>
<td></td>
<td>B.A., M.Ed., Washington State University; Oregon State University; University of Georgia; Oklahoma State University.</td>
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<td>HUSKEY, DARRYL</td>
<td>Serials and Documents Librarian</td>
<td></td>
<td>1968</td>
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<td>B.S., Brigham Young University</td>
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<td>JOHNS, JOHN</td>
<td>Associate Professor</td>
<td>Business Administration</td>
<td>1968</td>
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<td>B.S., M.A., Ball State University; Ed.D., University of Denver.</td>
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<td>JOHNSON, HELEN R.</td>
<td>Associate Professor</td>
<td>Office Administration</td>
<td>1955</td>
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<td>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.</td>
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<td>JOHNSON, JOHN</td>
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<td>Business Administration</td>
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<td>KELLER, FRANCIS E.</td>
<td>Assistant Professor</td>
<td>Mathematics</td>
<td>1967</td>
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<td>B.S., Seattle University; M.S., University of Idaho; Ph.D., Montana State University.</td>
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<td>KELLER, MARY LOUISE</td>
<td>Instructor</td>
<td>Nursing Education</td>
<td>1959</td>
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<td></td>
<td>Diploma, Samaritan Hospital School of Nursing, Nampa Idaho; B.S., Northwest Nazarene College; University of Washington; University of California at Los Angeles.</td>
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<td>KELLY, DORIS</td>
<td>Assistant Professor</td>
<td>Nursing Education</td>
<td>1958</td>
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<td>Diploma, Cook County School of Nursing; B.A., University of Denver; M.N., University of Washington.</td>
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<td>KENN, DWANE R.</td>
<td>Business Manager</td>
<td></td>
<td>1960</td>
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<td>B.A., College of Idaho; University of Omaha.</td>
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<td>KIGBAUM, NOEL</td>
<td>Assistant Professor</td>
<td>Carpentry and Cabinetmaking</td>
<td>1955</td>
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<td>B.S., College of San Mateo, San Jose State College.</td>
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<td>LAMBORN, ELLIS</td>
<td>Associate Professor</td>
<td>Economics</td>
<td>1968</td>
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<td>B.S., University of Utah; M.S., University of Illinois; Ph.D., Cornell University; University of California.</td>
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<td>LARSON, L. WARDELL</td>
<td>Instructor</td>
<td>Psychology</td>
<td>1967</td>
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<td>LEE, DOROTHY</td>
<td>Associate Professor</td>
<td>Office Administration</td>
<td>1953</td>
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<td></td>
<td>B.Sc. in Ed., University of Nebraska; M.A., College of Idaho; State University of New York, College at Plattsburg; University of Idaho.</td>
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<td>LEWIS, RAY</td>
<td>Assistant Professor</td>
<td>Physical Education</td>
<td>1956</td>
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<td>Name</td>
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<td>LIEBENDORFER, DON E., JR.</td>
<td>Athletic Publicity Director and Business Manager (1968)</td>
<td>B.S., Stanford University.</td>
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<td>LOVIN, HUGH T.</td>
<td>Professor</td>
<td>History (1965) B.A., Idaho State College; M.A., Washington State University; Ph.D., University of Washington.</td>
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<td>LUKE, ROBERT</td>
<td>Assistant Professor</td>
<td>Physics Diploma, Ricks Junior College; B.S., M.S., Ph.D., Utah State University.</td>
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<td>MACINNIS, JEAN</td>
<td>Instructor</td>
<td>Dental Assisting (1962) C.D.A., University of North Carolina; Boise Junior College; Idaho State University.</td>
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<td>MACMILLAN, JOHN</td>
<td>Director, News Bureau (1967)</td>
<td>B.A., University of Washington.</td>
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<td>MALONEY, STEPHEN E.</td>
<td>Instructor</td>
<td>Business Administration (1966) B.S., College of Idaho; Texas A. &amp; M.; Boise Junior College; Idaho State University.</td>
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<td>MALOOF, GILES</td>
<td>Associate Professor</td>
<td>Mathematics (1968) B.A., San Bernardino Valley Junior College, University of California; M.A., University of Oregon; Ph.D., Oregon State University.</td>
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<td>MAXSON, EMERSON</td>
<td>Instructor</td>
<td>Business Administration (1968) A.S., Boise Junior College; B.S., University of Colorado; M.A., University of Colorado.</td>
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<tr>
<td>McBIRNEY, RUTH</td>
<td>Associate Professor</td>
<td>Head Librarian (1940-42, 1953) Boise Junior College; A.B., Whitman College; B.A. in Librarianship, University of Washington; Columbia University; University of London; University of California at Berkeley; Rutgers University.</td>
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<tr>
<td>MCCAUSLIN, J. ALFRED</td>
<td>Professor of Guidance and Counseling</td>
<td>Dean of Student Personnel Services (1965) B.A., Rollins College; M.A., M.S., Pennsylvania State University; Ed.D., University of Maryland.</td>
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<tr>
<td>MCCAUSLIN, PHYLLIS A.</td>
<td>Assistant Professor</td>
<td>English (1965) B.S., Mansfield State College; Pennsylvania State University; M.Ed., Bloomsburg State College.</td>
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<tr>
<td>McDONALD, ANGUS</td>
<td>Associate Professor</td>
<td>Teacher Education (1968) B.A., College of Idaho; M.A., Colorado State University; Ed.D., University of Maryland; Stanford University; Claremont Graduate School.</td>
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<tr>
<td>McDOWELL, ROBERT L.</td>
<td>Instructor</td>
<td>Technical Services Librarian (1968) B.G.E., Omaha University; M.A., University of the Americas, Mexico D.F.; M.A., San Jose State College.</td>
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<tr>
<td>MEYER, CARROLL J.</td>
<td>Associate Professor</td>
<td>Piano (1948) B.M., University of Michigan; Pupil of Ethel Leginska and Cecile de Horvath; M.M., University of Iowa.</td>
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<td>MILES, FLORENCE M.</td>
<td>Associate Professor</td>
<td>Nursing Education (1965) Diploma, School of Nursing, St. Luke's Hospital; B.S. N.E., M.N., University of Washington; University of California at Los Angeles.</td>
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<td>MILLARD, DOUGLAS S.</td>
<td>Instructor</td>
<td>Office Machine Repair (1966) Special training and schools in office machine operation and repair.</td>
<td></td>
</tr>
</tbody>
</table>
MILLER, ROBERT T., Associate Professor ... Business Administration (1963)
B.S., University of Oregon; LL.B., Columbia University; University of Idaho.

MOORE, POLLY K., Associate Professor ... Home Economics (1962)
B.S., M.S., Ph.D., Pennsylvania State College.

MOORE, BURL R., Instructor ... Biology (1968)
B.S., West Texas State University.

MORRELL, LAURENCE, Instructor ... Mathematics (1968)
B.S., Utah State University; M.S., University of Illinois; Oberlin College.

NEWBY, GARY R., Assistant Professor ... Physics (1966)
B.S., Ph.D., Arizona State University

NEWMAN, J. STEPHEN, Instructor ... English (1968)
B.A., M.A., Western State College of Colorado.

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

OAKES, DONALD, Instructor ... Music (1964)
B.M., M.M., Northwestern University.

OBEE, DONALD J., 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.

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

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

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

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

OYLER, NELDON D., Instructor ... Horticulture (1966)
A.S., Snow College; B.S., Brigham Young University.

PAPENFUSS, HERBERT D., Assistant Professor ... Life Science (1967)
B.S., University of Utah; M.S., Brigham Young University; Ph.D., Colorado State University.

PECK, LOUIS A., Associate Professor ... Art (1955)
B.A., College of Idaho; University of California, Santa Barbara; M.S., Utah State University; Rex Brandt School of Art.

PETERSON, AVERY F., Assistant Professor ... Political Science (1965)
B.S., Georgetown University; Graduate, National War College; University of Idaho; American Foreign Service Career and Deputy Asst. Secretary of State; University of British Columbia.

PETERSON, ELLIS RAY, Associate Professor ... Chemistry, Physics (1964)
B.S., M.S., Utah State University; Ph.D., Washington State University.

PHILLIPS, GORDON G. ... Purchasing Agent (1964)
A.A., Boise Junior College; B.S., University of Colorado.

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

* Sabbatical Leave 1968-69.
PITMAN, C. HARVEY, Assistant Professor  English, Debate (1966)
B.A., College of Idaho; M.Ed., Washington State University.

REED, F. RICHARD  Director, Financial Aids (1968)
Southern Branch University of Idaho; Idaho State College.

REED, GERALD R.  Director of Special Projects (1967)

RETLAFF, ERNEST, Associate Professor  Health Services (1967)
A.A., Boise Junior College; B.S., M.S., Oregon State University; Ph.D., University of Michigan.

RICHER, SAMUEL B.  Director of Admissions (1965)
B.S., University of Oregon; M.Ed., University of Portland.

ROE, HAZEL MARY, Associate Professor  Office Administration (1942-44; 1947)
B.A., M.A., University of Idaho; Northwestern University; University of Washington; Oregon State College; independent study in Peru and Chile.

ROSE, ROBERT E., Professor of Marketing  Dean, School of Business and Public Administration (1953)
B.A., M.A., Colorado State College; Ph.D., State University of Iowa.

ROSTRON, CHARLES R., Director, Division of Vocational-Technical Education, Area Vocational Technical School
A.A., Pasadena City College; B.S., Iowa State University; M.S.C.E., University of Houston; Worcester Poly Institute, University of California, Berkeley.

RUNFT, ENID, Instructor  English (1966)
B.A., Sioux Falls College; M.A., University of Chicago.

RUNNER, HERBERT W.  Assistant to the Director of Educational Services (1967)
B.A., University of Redlands; M.S., University of North Dakota.

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

*SCHIFFLER, MARTIN W., Assistant Professor  Sociology (1964)
A.A., Diablo Valley College; B.S., M.S., University of Oregon; University of California; Emory University.

SCHROEDER, ALBERT L., Instructor  Vocational Counselor (1967)
B.A., Idaho State College; Idaho State University.

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

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

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

SEVERANCE, JOHN E., Instructor  Computer Programming (1968)
B.S., University of Idaho; M.S., University of Arizona.

SEWARD, JOHN H., Assistant Professor  History (1967)
B.A., Morningside College; M.A., Moorhead State College.

SHANKWEILER, WILLIAM E., Professor of Speech  Chairman, Division of Arts and Letters (1956)

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

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<th>Name</th>
<th>Title</th>
<th>Department</th>
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<tr>
<td>Sickles, William R.</td>
<td>Associate Professor</td>
<td>Psychology</td>
<td>1968</td>
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<td></td>
<td>B.A., Wittenberg University; M.A., Columbia University; Ph.D., University of California, Berkeley.</td>
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<tr>
<td>Sieber, Donald J.</td>
<td>Instructor</td>
<td>Electronics</td>
<td>1963</td>
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<td></td>
<td>U.S. Army Signal Corps; Burroughs Corporation; Montronics; Philco Corporation.</td>
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<td>Skov, Arny R.</td>
<td>Instructor</td>
<td>Art</td>
<td>1967</td>
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<td>B.A., M.F.A., University of Idaho.</td>
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<td>Skrien, David A.</td>
<td>Assistant Football Coach Instructor</td>
<td>Physical Education</td>
<td>1968</td>
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<td>B.S., M.Ed., University of Minnesota.</td>
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<td>Smartt, Frank H.</td>
<td>Assistant Professor</td>
<td>Mathematics</td>
<td>1958</td>
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<td>Smear, John P.</td>
<td>Assistant Professor</td>
<td>Broadcasting, Public Speaking</td>
<td>1966</td>
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<td>B.A., M.A., University of Michigan.</td>
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<td>Smith, Charles F.</td>
<td>Instructor</td>
<td>Art</td>
<td>1967</td>
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<td>B.A., College of Idaho; M.F.A., Washington State University.</td>
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<td>Smith, Donald D.</td>
<td>Professor</td>
<td>Psychology</td>
<td>1967</td>
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<td>A.B., Peru State College; M.Ed., Whittier College; M.Ed., Ed.D., University of Southern California.</td>
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<td>Smith, Lyle</td>
<td>Professor</td>
<td>Coach, Physical Education</td>
<td>1946</td>
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<td>B.S.(Ed.), M.S.(Ed.), University of Idaho.</td>
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<td>Snavely, Robert Carl</td>
<td>Assistant Professor</td>
<td>English</td>
<td>1966</td>
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<td>B.A., M.A., University of Omaha.</td>
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<td>Snell, Harold</td>
<td>Assistant Professor</td>
<td>Auto Mechanics</td>
<td>1958</td>
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<td></td>
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<td>Allen Auto Electric, Boise; Carter Carburetor, Pendleton, Oregon; Chrysler Motor Corporation, Detroit, Michigan; General Motors' Hydramatic Transmission and Hudson Motor Car Company, Detroit, Michigan; Idaho State College; Oregon State University; General Motors Training Center; Chrysler Training Center, Los Angeles.</td>
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<td>Spulnik, Joseph B.</td>
<td>Professor</td>
<td>Dean, School of Arts and Sciences</td>
<td>1941</td>
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<td>B.S., M.S., Ph.D., Oregon State University; Reed College; Portland State College.</td>
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<td>Standing, Georgia V.</td>
<td>Assistant Professor</td>
<td>Voice, Speech</td>
<td>1963</td>
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<td></td>
<td>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.</td>
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<td>Stark, Frank W.</td>
<td>Associate Professor</td>
<td>Physical Science</td>
<td>1957-61, 1967</td>
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<td>B.S., M.S., Trinity College, University of Denver.</td>
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<td>Sylvester, Robert B.</td>
<td>Assistant Professor</td>
<td>History</td>
<td>1963</td>
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<td>A.A., Boise Junior College; B.A., M.A., University of California at Santa Barbara.</td>
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<td>Takehara, John S.</td>
<td>Assistant Professor</td>
<td>Art</td>
<td>1968</td>
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<td>B.A., Walla Walla College; M.A., Los Angeles State College.</td>
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<td>Tennyson, Albert H.</td>
<td>Instructor</td>
<td>Vocational Related Subjects</td>
<td>1966</td>
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<td>B.A., College of Idaho; M.A., University of Idaho.</td>
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<td>Thomsen, Nan M.</td>
<td>Instructor</td>
<td>Nursing Education</td>
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<td>R.N., St. Luke's Hospital; B.S., Montana State University.</td>
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<td>Thompson, Tracy E.</td>
<td>Instructor</td>
<td>English</td>
<td>1966</td>
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<td>Tipling, Ralph M.</td>
<td>Assistant Professor</td>
<td>Criminology</td>
<td>1966</td>
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<td>B.S., Washington State College; M.P.A., University of Arizona.</td>
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<td>Tipton, Carl W.</td>
<td>Assistant Professor</td>
<td>Management</td>
<td>1965</td>
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<td>Iowa Wesleyan College; University of Washington; George Washington University; M.B.A., University of Chicago; University of Idaho.</td>
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</table>
TOMPKINS, JAMES W., Assistant Professor Vocational Related Subjects (1963)
A.B., Wheaton College; Th.B., Westminster Theological Seminary; University of Pennsylvania; Howard University.

TORBET, DAVID P., Professor Psychology (1966)
B.S., Pacific University; M.A., University of Oregon; Ph.D., University of Colorado.

TOWNSEND, DEAN C., Assistant Professor English (1966)
A.B., University of California at Berkeley; M.A., San Francisco State College.

TRUBY, SHEILA REIHING, Instructor Nursing (1968)
B.S., State University of New York.

UNDERKOFLER, G. W., Associate Professor Business (1952)
B.A., Nebraska Wesleyan University; University of Chicago; University of California, Los Angeles; University of Southern California; San Jose State College; Brigham Young University.

VALVERDE, LUIS J., Associate Professor Foreign Language, English (1965)
B.A., Mankato State College; B.S., Southern Illinois University; M.A., University of California at Los Angeles; University of Michigan; University of Washington; University of Texas; University of Indiana.

VAN LIEW, WAYNE, Associate Professor 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.

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

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

WALLACE, FLORA, Dean of Women (1968)
B.A., Carolina College; M.S., University of Bridgeport; Ed.D., University of New Mexico.

WALLACE, GERALD, Professor of Teacher 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.

WARNER, KATHLEEN C., Instructor English (1966)
B.A., University of Nevada; M.A., Arizona State University.

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

WARWICK, JOHN E., Assistant Professor English, Speech (1963)
B.S., Quincy College, Illinois; M.F.A., Catholic University of America.

WENDELL, SHARON M., Instructor Nursing
B.S., in Nursing, University of Portland.

WENSKI, EUGENE F., Instructor Mathematics (1967)
B.S., Gonzaga University; M.S., University of Idaho; University of Washington.

WESTFALL, HELEN, Associate Professor Physical Education (1962)
B.A., Simpson College; M.A., State University of Iowa; University of Oklahoma; University of California at Los Angeles; Drury College; University of Illinois.
Faculty

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

WHITE, WAYNE E., Associate Professor ......... *Business Administration (1965)
A.A., Eastern Arizona Junior College; B.S., M.A., Arizona State University; University of Arizona.

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

WILKINSON, EDWIN E., Assistant Professor of Psychology and Dean of Men (1958)
B.A., Whitworth College; M.S., Washington State University; University of Oregon.

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

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

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

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

WOLFE, JAMES R. .......... Associate Director, Educational Services (1960)
B.S., M.B.A., Indiana University; University of California at Berkeley; Idaho State College; Stanford University; Michigan State University.

WOODWORTH, JOHN G., Associate Professor ........ *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.

*WU, HUNG-SEN, Assistant Professor ........ *English (1962)
A.B., Syracuse University; M.A. (Govt.), Harvard University; M.A. (English), Columbia University.

WYLIE, GILBERT A., Associate Professor .......... *Life Sciences (1965)
B.S., College of Idaho; M.A., Sacramento State College; Ph.D., Purdue University.

YOUNG, JERRY, Assistant Professor ............ *Mathematics (1964)

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

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

EMERITI

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

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

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

*Sabbatical Leave 1968-69.
Ada Y. Hatch, Professor of English  
(1932-67)

Mary T. Hershey, Registrar  
(1933-54)

Helen E. Moore, Dean of Women  
(1947-68)

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

Jeanne G. Stearns, Associate Professor of Physics  
(1946-68)

Lyle F. Trapp, Assistant Professor of Auto Body  
(1953-67)
PART TIME ASSISTANTS AND SPECIAL LECTURERS

ROBERT R. AUTH (1967)
Art
B.F.A., Illinois Wesleyan University
M.F.A., Washington State University

HERBERT K. BELL (1968)
Accounting
LL.B., University of Louisville
M.B.A., USAF Institute of Technology

Dwight Bickel (1967)
Business
B.S., University of Illinois
LL.B., University of Illinois

Dean Bigler (1963)
Accounting
M.A., University of Portland
Willamette University

Del Bowman (1967)
Interior Decorating
B.S., University of Idaho
San Jose State College

Jean Boyles (1949-57; 1962)
Physical Education
A.B., University of California
M.S., University of Colorado

Warren B. Buchanan, Jr. (1965-67)
Electrician Apprenticeship
Electrician Journeyman 1955-1967
Electrical Code
Electrical Theory. Boise College

Frank Carr (1954)
Photography
Northwest Nazarene College

Alyce Copple (1967)
Office Machines
B.S., University of Idaho

William Crawford (1960; 1968)
Apprentice Plumbing
Owner—Hyde Park Plumbing

James A. Defenbach (1963)
Accounting
B.S., M.S., University of Idaho

Robert Gavin (1967)
Electronics
B.S., U.S. Naval Academy
O.D., Los Angeles College of Optometry

Lawrence Gibbons (1966)
Mathematics
B.S., M.Nat.S., University of Idaho

Fred E. Giffin (1963)
Mathematics
B.S., Black Hills Teachers College
M.Nat.S., University of Idaho
College of Idaho

Milford Gragg (1959-1968)
Welding
Voc-Ed, Boise and Pocatello
Lesson planning and Practice teaching

William P. Hall (1965)
History
B.A., Princeton
B.D., Union Theology
Ph.D., Yale University

David W. Hanford (1967)
Life Science
B.S., University of Idaho
D.D.S., Northwestern University
Dental School

Claude A. Hanson (1968)
Biology
B.S., University of Idaho
M.Nat.S., University of Idaho

William C. Heazle (1965)
Accounting
B.B.A., University of Oregon, C.P.A.

James Henry ( )
Music
B.A., University of Colorado

James Hopper (1950)
B.S., Julliard School of Music
M.A., University of Iowa

Henry E. Houst, Sr. (1965)
Drill Team
B.S., College of Idaho

Adrian O. Hutchens (1967)
Economics
B.S., M.S., University of Cal. at Berkeley

Gail M. Ison (1966)
Psychology
B.A., University of Idaho
M.A., Brigham Young University
Ph.D., University of Oregon

Edgar A. Imhoff (1968)
Geology
B.S., University of Utah
M.S., University of Wisconsin

Fred W. Knight (1965)
Education
A.B., Northwest Nazarene College
M.A., Kansas State
Ed.D., University of Southern California
Boise State College

Monte L. Levitt (1965)
Dental Assisting
D.D.S. Loyola University

Mary Anne Maloof
Mathematics
B.A., M.S. University of Washington; Oregon State University

Lois S. Manweiler (1967)
Secretarial Science
B.S. University of Idaho

Elma T. Miller (1944)
Typing
A.B., Linfield College

Kathryn Mitchell (1982-38; '39-68)
Music
Institute of Musical Art, New York
Pupil of Franz Mairecker, Louis Persinger, & Henri Temianka

Richard L. Moore (1966)
Dental Assisting
B.A., University of Idaho
D.D.S., College of Physicians & Surgeons

Jack C. Riddlemoser (1967)
General Business
A.A., Boise Jr. College
LL.B., University of Idaho

Daniel Rode (1965)
Psychology
B.A., San Francisco State College
M.S., University of Oregon

Marie P. Sasser (1965)
Secretarial Science
B.A., Idaho State University

Joan Smith (1966)
Typing
B.A., College of Idaho, Univ of Idaho

Richard Stokes (1968)
Economics
A.B., M.B.A., Univ. of South. Cal.

Wallace A. Walker (1962)
Real Estate
B.S., Washington State University

Merle W. Wells (1965)
History
A.B., College of Idaho
M.A., Ph.D., Univ. of Cal. at Berkeley

Helene M. White (1966)
Music
B.M., Illinois Wesleyan University
M.Mus., Northwestern University

Thomas W. Wilbanks (1964)
English
A.B., Trinity University
Th.B., Princeton Theological Seminary
University of New Mexico

Elementary Education
Supervising Teachers, Campus School

Keener, Keith ........................................... Principal
Smith, Margaret ........................................ Nurse
Wand, Lois .............................................. Grade 1
Goin, Alice ............................................. Grade 4
Hawks, Carlota ......................................... Grade 2
Fritschle, Mariel ....................................... Grade 3
Phelps, Dora ............................................ Grade 5
Roberts, Dorothy ....................................... Grade 4
Roberts, Duane ......................................... Grade 6
Seeley, Dorotha ......................................... Grade 3
Tooman, Marguerite .................................... Grade 1
Warr, Harry G. ......................................... Grade 6
Worden, Marianne ...................................... Grade 2
Scholarships

SCHOLARSHIPS AVAILABLE

American Business Women's Association — Boise Centennial Chapter
The Boise Centennial Chapter of the American Business Women's Association offers two $150 scholarships annually to girls in the field of secretarial science or business. Holders are chosen by the faculty of the School of Business. Applications should be made to the Dean of the School of Business.

Beta Sigma Phi City Council
The Beta Sigma Phi City Council contributes to the scholarship fund annually. Apply to the Committee on Scholarship Awards.

Boise Ad Club
Syms-York Company through the Boise Ad Club offers a scholarship of $250 to a Marketing major chosen by the faculty of the School of Business and approved by the Board of Directors of the Club. Applications should be made to the Dean of the School of Business.

Boise Business and Professional Women's Club
The Beta Sigma Phi City Council contributes to the scholarship fund of $100 to be given to a junior or senior woman majoring in education or business education and a bona fide resident of Boise.

Boise College Fund, Inc.
The Boise College Fund, Inc., is comprised of the various memorial scholarship funds indicated below. Annual earnings from this fund will provide a limited number of scholarships each year. Applications should be made to the Scholarship Awards Committee unless otherwise stated.

W. H. Langroise established a Memorial Fund in memory of his wife, Vernette S. and his son, William H., Jr., Scholarships will be awarded from the earnings of this fund. Application should be made to the Committee on Scholarship Awards.

Funds have been bequeathed to Boise State College by W. George and Laura B. Campbell and earnings provide scholarships to outstanding, worthy students attending Boise State College.

The Dr. Virginia M. Ebert Memorial Scholarship Fund was established by friends in memory of Dr. Ebert, former faculty member of the Psychology Department.

The Lucille Lippincott Fund is given annually to a student of voice. Auditions are held in the Spring before the Music School Faculty. Recipient must be a music major and application is made to the Head of the Music Department.

The Floribel Williams Memorial Fund.
The Jacob Ullman Memorial Scholarship Fund was established in his memory by friends and relatives.
The Sid Waterhouse Memorial Scholarship Fund was established by friends in memory of Mr. Waterhouse, employee of the College for many years.
The Mrs. Guy Barton Memorial Scholarship Fund was established in memory of Mrs. Barton, mother of Mrs. Eugene B. Chaffee, by friends. The Sherman N. Weisgerber Memorial Scholarship Fund was established in his memory by his fellow employees of the State Highway Department and friends.

The Calla Wood Memorial Fund was established by the American Association of University Women.
The College was the recipient of a bequest from Mrs. Virginia O. Baird, wife of Mr. Ed Baird, former trustee of Boise Junior College.

Boise Lions Club
The Boise Lions Club awards two $100 scholarships to graduating seniors from high schools in the Boise area on the basis of service, citizenship, scholarship and need. Apply to the Committee on Scholarship Awards.
C. C. and Henrietta W. Anderson Foundation

The C. C. and Henrietta W. Anderson Foundation, a charitable, religious, and educational foundation created some years ago by Mr. and Mrs. Anderson, authorizes a grant to Boise State College each year from earnings of the trust to be used for scholarships. This year six $500 scholarships will be offered to bona fide residents of Boise. Students will be considered for these scholarships on the basis of scholastic record, need, and worthiness. Application should be made to the Committee on Scholarship Awards.

Clyde F. Potter Memorial Scholarship Fund

The Clyde F. Potter Memorial Scholarship Fund was established at Boise Junior College in 1963 by the many friends and relatives of Mr. Potter in remembrance of his many years of devoted service to Boise Junior College and its students. Mr. Potter served first in the capacity of Secretary-Treasurer of the Boise Junior College District, and later as Business Manager. One Boise Junior College District tuition scholarship will be awarded annually to an outstanding, worthy student attending Boise State College. Application should be made to the Committee on Scholarship Awards.

Daughters of the American Revolution — Pioneer Chapter

Pioneer Chapter, Daughters of the American Revolution, gives a scholarship of $100 each year to help a Boise girl with a good scholastic record to carry out her plans for a higher education. Apply to the Committee on Scholarship Awards.

Duplicate Bridge Club

The Duplicate Bridge Club of Boise presents a scholarship of $100 to a sophomore student who plans to continue his education in Idaho. Need is a factor.

Earl B. Mathews Memorial

The Earl B. Mathews Scholarships for several students are made possible by an annual gift from Mr. Mathews, a former student of Boise Junior College, and a matching amount from the General Electric Foundation. Application for these scholarships should be made to the Committee on Scholarship Awards.

Elks Lodge — B.P.O.E., Boise Lodge No. 310

The Boise Lodge No. 310 of the B.P.O.E. provides a scholarship in the amount of $200.

Esquires Club

The Esquires Club, a men's service club, offers a scholarship of $100 each spring semester to a student who will be returning the following fall. Application should be made to the Committee on Scholarship Awards.

Eva Adams

Eva Adams scholarships are made possible each year by Mrs. Eva Adams, continuing the plan initiated by her husband, the late Charles F. Adams.

Harry W. Morrison

Harry W. Morrison has provided funds for a limited number of scholarships to deserving students attending Boise State College.

Helen Moore Scholarship

The Helen Moore Scholarship makes available $150 each semester to a student with a major in English. This is a continuing scholarship and the recipient is selected by the English Department.

Idaho Air National Guard

The Idaho Air National Guard grants a $50 Scholarship each semester to an active member of the 124th Fighter Group (AD). The recipient must be enrolled at Boise State College as a full-time academic student, and his expiration term of service must not occur during the period of time for which the scholarship has been awarded. The Dean of Men, Coordinator for the Air National Guard, first determines eligibility; formal application should then be made with the Committee on Scholarship Awards.
Scholarships

Idaho Candy Company
The Idaho Candy Company Scholarships are awarded to several worthy students from Idaho who are attending Boise State College. Application should be made to the Committee on Scholarship Awards.

Idaho Peace Officers' Association
The Idaho Peace Officers' Association has provided funds covering the award of scholarships for upper classmen who are criminology majors and residents of Idaho. This scholarship requires a cumulative grade average of 2 point and a major grade average of 3 point.

Idaho State Employees Association — Capitol Chapter
The Capitol Chapter of the Idaho State Employees Association awards two scholarships annually, one to a boy and one to a girl. These scholarships are available to either freshmen or sophomore students, children of Idaho State Employees and living in the Capitol Chapter area. (Counties of Ada, Boise, Elmore.) Application should be made to the Committee on Scholarship Awards.

Intercollegiate Knights
The Intercollegiate Knights, men's service organization, makes available a number of tuition scholarships each year to worthy students attending Boise State College. Apply to the Committee on Scholarship Awards.

J. Weil & Company
The J. Weil & Company of Boise grants a $25 scholarship annually to a student in the Division of Business and Economics at Boise State College. Application should be made to the Committee on Scholarship Awards.

Kenneth N. Salyer Memorial Wrestling Scholarship Fund
The Kenneth N. Salyer Memorial Wrestling Scholarship Fund was established by Mrs. Kenneth Salyer from contributions by his friends and relatives. One $100 scholarship will be awarded each year. Applicants should be prospective members of the wrestling team. Apply to the Scholarship Awards Committee.

Laura Moore Cunningham Scholarship Foundation
The Laura Moore Cunningham Scholarship Foundation provides $500 scholarships to outstanding worthy students of Boise. The awards are made to three members of each freshman class and may be continued after first issuance, depending upon scholastic achievement. Apply to Scholarship Awards Committee.

Lloyd Charles Stenger Scholarship
The Lloyd Charles Stenger Scholarship of $50 is a memorial awarded to a Boise State College student. Scholastic record, worthiness and need are considerations for this scholarship. Make application to the Committee on Scholarship Awards.

Chaffee Hall Scholarship
One or more scholarships are given each year by Boise State College students living in Chaffee Hall. Selection is made by the men living in the dormitory with the assistance of the Dean of Men. Application is made to the Scholarship Awards Committee.

The Knights of Pythias
The Knights of Pythias Scholarship is awarded to a Vocational student.

Margaret Cobb Ailshie Foundation
Five Margaret Cobb Ailshie scholarships of $400 each are awarded students of Boise State College who are bona fide resident of Boise College District. They are awarded on the basis of financial need, worthiness and scholastic standing. Apply to the Committee on Scholarship Awards.

Pi Sigma Sigma
Pi Sigma Sigma, men's service organization on the campus, makes an award of a tuition scholarship to a freshman male student entering Boise State College. Make application to the Committee on Scholarship Awards.
Potter Tylee Howard Memorial Scholarship
The Potter Tylee Howard Memorial Scholarship was established by a group of his close friends. The award of $100 is available to the most worthy student whose parent is an employee of the City of Boise, or to a high school graduate from the Boise school system.

Robert F. Jones Memorial Scholarship
The earnings of the Robert F. Jones Memorial Scholarship Fund which was established by family and friends of Dr. Jones, former head of our Education Department, will provide a scholarship of $100 for a student majoring in education each year.

Student National Education Association of Boise State College
The Student National Education Association of Boise State College gives an annual $50 scholarship to an outstanding freshman or sophomore education major. Application should be made to the Committee on Scholarship Awards.

Saga Food Service
Several board scholarships are provided by Saga Food Service each year. Apply to the Scholarship Awards Committee.

Tau Alpha Phi
A number of scholarships are awarded each year to students enrolled in vocational courses by Tau Alpha Pi, a vocational service fraternity of the College. Awards are made by the Vocational-Technical Division Scholarship Awards Committee.

Valkyries
Scholarships are given by the Valkyries, women's service organization of Boise State College, to women of the College who have a high scholastic standing and who are in need of financial aid in order to continue their higher education. Apply to the Committee on Scholarship Awards.

Welcome Wagon Newcomers Club of Boise
The Welcome Wagon Newcomers Club of Boise awards $125.00 per semester for the school year to a worthy second year female student who is a Boise Junior College District resident living at home and planning to continue her education beyond the first two years. Application should be made to the Committee on Scholarship Awards.

YMCA Rhodenbaugh Scholarships
Scholarship awards will be made each year from the earnings of the YMCA Rhodenbaugh Fund to students at Boise State College in training to be teachers. Final selection will be made by the Board of Directors of the YMCA.

Miscellaneous Funds
A limited number of tuition scholarships are granted each semester to both freshman and sophomore students, based on scholastic achievement, character, leadership, and demonstrated need. Funds are provided by anonymous donors and scholarships are awarded upon application to the Committee on Scholarship Awards.

A number of other scholarships and awards are offered to Boise State College students by various organizations. These awards are made directly by the organizations involved and are based upon special qualifications or auditions. Applications should be made as indicated.

Ada County Medical Auxiliary
The Ada County Medical Auxiliary awards a scholarship at the end of each school year to a young lady who will continue studying at Boise State College during her sophomore year in the field of nursing. Make application to the Director of Nursing at Boise State College.

Ada County School Food Service Association
The Ada County School Food Service Association offers a $50 scholarship to a freshman student majoring in Home Economics who will return to Boise State College for her sophomore year and plans to complete requirements for a degree in Home Economics. The applicant's family home must be located in Ada County. Selection will be made by representatives of the Food Service Association.
Scholarships

Altrusa Club — Boise
The Boise Altrusa Club Education Scholarship of $400 ($100 each semester for two years) is awarded to a woman graduate from a Boise high school who will study for two years at Boise State College in preparation for the teaching profession. Application may be made through the girls' counselors at the high schools.

American Legion Gem Boys State
Boise State College awards six $100 scholarships each year to outstanding boys attending the American Legion Gem Boys State. The recipients are chosen on leadership, character, self-reliance, courage, and initiative. These scholarships are awarded by the Chairman of the Committee on Scholarship Awards of Boise State College, a Justice of the Idaho Supreme Court, and a National Field Representative of the American Legion.

Associated Women Students of Boise State College
The Associated Women Students of Boise State College award a $50 scholarship each year to a girl from a high school within Ada County who will be living in Morrison Hall. The recipient is chosen by the Director of Morrison Hall, the Dean of Women, and the Dean of Student Personnel Services.

Associated Students of Boise State College
The Associated Students of Boise State College has made funds available for two $100 scholarships each semester to students residing in the Boise Junior College District who are enrolled as full-time students in the field of business. The scholarships are awarded on the basis of financial need and scholastic ability, and the recipients are chosen by a faculty committee from the School of Business and two members of the Boise Association of Insurance Agents. Application should be made to the Dean of the School of Business at Boise State College at least one month prior to the close of each semester.

B'nai B'rith Award
The B'nai B'rith Award is given annually in honor of Noah S. Levine, a former student of Boise Junior College who gave his life in the service of his country. This award is presented to a full-time student who, in the opinion of the faculty, is most deserving and who has participated most actively in the fields of public speaking, debate, dramatics, and radio broadcasting activities. This award is presented by the Nathan Falk Lodge No. 48 B'nai B'rith, Boise, Idaho.

Boise Home Economists in Homemaking
Boise Home Economists in Homemaking present a $50 award to an outstanding sophomore girl who is majoring in home economics. Selection is based upon scholarship, school service and professional potential.

Boise P.T.A. Council
Boise P.T.A. Council makes available annually several scholarships to Boise High School, Borah High School, Capital High School, and Bishop Kelly High School graduates who are continuing their education at Boise State College. These awards are given to students who plan to enter the teaching profession. Apply to the high school counselors.

Boise Tuesday Musicale
The Boise Tuesday Musicale awards an annual scholarship to a student majoring in applied music. Following auditions conducted and judged by the Boise Tuesday Musicale in May, the scholarship is presented to the most deserving student. An applicant must have been a member of the Boise Junior Tuesday Musicale, enroll in the Music Department of Boise State College for the fall semester, and make application to the President of the Boise Tuesday Musicale prior to April 20.

Choristers Club
A pipe organ scholarship of $250 is awarded annually. This scholarship is provided by the Choristers Club members. Application should be made to the Head of the Music Department of the College. The recipient shall be a full-time student, majoring in music at Boise State College.
Leon Burt Studios
The Leon Burt Studio presents a $100 scholarship annually on the basis of competition. Auditions are held in the Spring before the faculty of the Music Department. Recipient must be a music major and a full-time student at Boise State College.

First Security Foundation
The First Security Foundation offers two scholarships of $500 each to upper division students of business and finance. The faculty of the School of Business Boise State College selects outstanding students for these scholarships.

40 & 8 Voiture Local 311
The "40 & 8" Voiture Local 311 grants a $25.00 scholarship each year to an outstanding student of French attending Boise State College. Selection of the recipient of this award is made by the French instructors at the College. Financial need is a consideration.

Golden Z Club
The Golden Z Club of Boise State College gives one or two Maymie Pierce Scholarships to freshman members who will continue their study at the College, based on grade point average and leadership. Selection will be made by a committee of Golden Z members, their Advisor, and the Dean of Women.

Holsinger Music, Inc.
Holsinger Music, Inc., offers a $100 scholarship to a worthy student in the Music Department of Boise State College. Selection of such a student will be made by the head of the Music Department by competitive audition, and applications should be submitted to the head of the department.

Hummel, Hummel, Jones and Shawver
Hummel, Hummel, Jones and Shawver awards annually to a freshman art student, who continues study at Boise State College as a sophomore, a scholarship in the amount of $100. The recipient is selected by the head of the Art Department of Boise State College.

Lambda Delta Sigma
The Lambda Delta Sigma organization offers annually two $100 scholarships. The students must register for a minimum of fourteen semester hours and maintain a grade point average of 2.5. Apply to the Director of the L.D.S. Institute of Religion, Boise.

Methodist Service Award — First Methodist Church
The Methodist Service Award of $50 is given annually by the Wesley Fellowship of the First Methodist Church, Boise, to a student who has completed one year at Boise State College or a Boise high school graduating senior planning to attend Boise State College. Apply to the Minister of the First Methodist Church.

Miss Boise College
Boise State College offers a $250 scholarship to the young lady chosen as "Miss B.S.C." The recipient of this scholarship must be a single girl who will use the scholarship at Boise State College and must be enrolled as a full-time student. The "Miss B.S.C." Pageant is jointly sponsored by two service clubs of the college, the Golden Z's and the Intercollegiate Knights.

Nampa Dollars for Scholars Committee
The Nampa Dollars for Scholars Committee awards a number of scholarships from the Nampa Community Scholarship Fund to students from that area who are continuing their higher education.

National Secretaries Association — Boise Chapter
The Boise Chapter, National Secretaries Association (International), awards yearly a $250.00 scholarship to a graduating woman student from a Boise high school who plans to further her education in the field of secretarial science. Selection of a recipient is made on alternate years by the three high schools. Application should be made to the Girls' Counselors.

Nordling Parts Co.
Nordling Parts Co. provides several scholarships for students in Auto Mechanics. Boise State College is one of three institutions which the recipients may attend.
Rose Richer Adkison Memorial Scholarship Fund
The Rose Richer Adkison Memorial Scholarship Fund has been established by Colonel Norman B. Adkison in memory of his wife, Rose. These scholarships are awarded annually to Idaho residents attending Boise State College who are outstanding art students. The Head of the Art Department selects the recipients for these awards.

Schoonover Band Scholarships
A number of scholarships are given by Mr. John A. Schoonover. These are awarded to students who are proficient in trombone, baritone, or brass instruments, and interested in becoming members of the Boise State College Band. Scholarships will be largely determined by auditions conducted by the Director of the Band.

Sears-Roebuck Foundation of Seattle
The Sears-Roebuck Foundation of Seattle offers six scholarships of $125 each to graduates of Meridian High School, Mountain Home High School, and Bishop Kelly High School of Boise. Apply to high school principal.

Soroptimist Club of Boise
The Soroptimist Club of Boise grants several scholarships to women high school graduates in the Boise area. Make application to the Chairman of the Scholarship Committee Soroptimist Club of Boise.

Women's Auxiliary of the Southwestern Idaho Dental Association
The Women’s Auxiliary of the Southwestern Idaho Dental Association awards a $150 scholarship to a young lady enrolled in the Dental Assistant Program at Boise State College on the basis of scholastic record and need. The Dental Assisting instructor makes recommendations for the scholarship and the recipient is chosen by the instructor with the assistance of the Chairman of the Vocational-Technical Division and the Director of the Dental Assistant Program.

Zonta Club Scholarship
The Zonta Club of Boise awards yearly the Genevieve Turnipseed Scholarship in the amount of $300 to a member of the Golden Z Club with the highest grade average; the award is to be used in an institution in one of the eleven western states. A committee consisting of the Chairman of the Scholarship Awards Committee at Boise State College, the Golden Z Advisor, and one member from the Zonta Club of Boise, determines the recipient of this award. Application should be made to the Advisor of the Golden Z Club.

LOAN FUNDS AVAILABLE
Citizens Loan Fund: Four Basic civic organizations have made possible this fund, which was established in 1938 by the Kiwanis Club. Since that time, the fund has increased almost ten-fold with contributions from the Rotary, Exchange, and Lions Clubs as well as the Kiwanis Club.

Ballantyne Loan Fund: Established by the late Mr. Sam Ballantyne of Boise, with additional contributions from his wife, Mrs. Grace A. Ballantyne.

Preston Capell Loan Fund: Established by a gift from Preston Capell of Nampa.

Capital City Kiwanis Loan Fund: Established by The Capital City Kiwanis Club of Boise.

Elmer S. Chaffee Memorial Loan Fund: Established by gifts from Boise State College faculty members.

Fern Hart Memorial Loan Fund: Established by a group of students and teachers from the schools of Ada County in memory of Mrs. Hart. The fund is especially for students who plan to make teaching their profession.

Intercollegiate Knights Loan Fund: Established by the Boise State College men's service organization.

The Janeal Fitzsimmons Memorial Loan Fund: Established by members of the Student National Education Association of Boise State College in memory of one of its members.
Robert T. McEwan Memorial Loan Fund: Established by friends of a Boise State College student in his memory.

The Jennie McFarlane Fellowship Loan Fund: Established by Purity Rebekah Lodge No. 67.

H. Albert Neal Loan Fund: Established by Mrs. Iona E. Neal of Phoenix, Arizona, in memory of her husband, Mr. Albert H. Neal, to assist students in the Education Department who plan to become teachers.

Otto T. Gottenberg Memorial Loan Fund: Established by Mrs. O. T. Gottenberg in memory of her husband.

Sears-Roebuck Loan Fund: Established by Sears-Roebuck and Company of Boise.

Warner Memorial Loan Fund: Established in memory of Ida Martin Warner by Ada County elementary teachers and Mrs. James Warner for Boise State College students majoring in Education.

Dale E. Watts Memorial Loan Fund: Established by friends and business associates in memory of a Boise State College instructor. Applicants from Vocational Education Division will be given preference.

Lucille T. Forter Loan Fund: Established by Mrs. Lucille T. Forter, a member of the original Boise State College faculty, who retired in June, 1961.

Alice J. Pecora Memorial Loan Fund: Established by members of the Boise State College staff in memory of Mrs. Pecora.

John E. Voorhees Memorial Loan Fund: Established by Mr. and Mrs. Dale E. Voorhees in memory of his father.

John B. Chatburn Memorial Fund: Established from gifts made by Boise State College staff, friends and relatives.

Physicians Memorial Loan Fund: Established by Boise Physicians to honor the memory of fellow physicians, with Dr. A. C. Jones and Dr. Richard Simonton as the first designees. Limited to the use of students of professional and practical nursing.

Myrtle McClary Memorial Loan Fund: Established by friends of the McClary family.

Gilbert M. Mathison Memorial Loan Fund: Established by his family, friends and fellow employees of the State Highway Department.

The P.E.O. Sisterhood offers loans to girls who have completed satisfactorily one semester of college work. The amount is $500.00 for one year or $1,000.00 to be used over two years. Applications may be made by contacting any P.E.O. member.

Campbell Loan Fund: Established by Campbell Estates.

Cornforth Loan Fund: Established in memory of George A. Cornforth.

Idaho Peace Officers Association, Inc.; Fund established for criminology majors.

Lois June Johnson Memorial Loan Fund: Established by gifts from friends to provide assistance for students of nursing.

D. W. Kennedy Memorial Loan Fund: Established by friends.

Wilkie Loan Fund: Established in memory of Lucille Wilkie, limited to students from Spanish speaking countries.

Kerr Memorial Fund: Established by friends to honor Nelle Kerr.
**Register of Students**

(AS OF MARCH 20, 1968)

**BOISE COLLEGE**

**GEOGRAPHICAL DISTRIBUTION OF COMPLETE ENROLLMENT FOR SCHOOL YEAR 1967-1968**

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**NIGHT CLASSES**

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**SUMMARY OF ENROLLMENT**

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Sub Total: 4142

Foreign Countries:
- Arabia: 3
- Bolivia: 2
- Canada: 10
- England: 2
- Germany: 1
- Guam: 1
- Hong Kong: 1
- India: 1
- Italy: 1
- Japan: 5
- Kuwait: 4
- Lebanon: 1
- Libya: 1
- Mexico: 2
- Philippines: 2
- Spain: 5
- Uganda: 1
- Venezuela: 1

Sub Total: 46

Grand Total: 4188

Summary:
- Idaho (exclusive of Boise): 1621
- Boise: 1913
- Other States: 608

Sub Total: 4142

Foreign Countries: 46

Grand Total: 4188
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