GRADUATE SCHOOL

Dean: Kenneth M. Hollenbaugh, Ph.D.

Graduate Program Coordinators

Business:
Associate Dean, School of Business: J. G. Doss, Ph.D.

Education:
Associate Dean, School of Education: Clyde Martin, Ed.D.

Public Administration:
Chairman, Political Science Department: Wil Overgaard, Ph.D.

PROGRAMS

Boise State University offers the graduate degrees of Master of Business Administration, Master of Science in Accounting, Master of Arts in Elementary Education, Master of Arts and Master of Science in Secondary Education, and Master of Public Administration.

AREAS OF EMPHASIS

The Master of Arts in Elementary Education includes four areas of emphasis: (1) Curriculum and Instruction; (2) Content Enrichment; (3) Reading; (4) Special Education. Specifics for each emphasis are included within the School of Education section of the Bulletin.

The Master of Arts/Science in Secondary Education includes an emphasis in each of the following areas: (1) Art; (2) Business Education; (3) Chemistry; (4) English; (5) Earth Science; (6) History; (7) Mathematics; and (8) Music. Specifics for each emphasis are included within the subject sections of the Bulletin.

The Master of Public Administration degree program has 3 areas of emphasis: (1) General, (2) Human Services, and (3) Criminal Justice.

The Graduate Faculty is comprised of those full-time faculty who have been approved by the Graduate Council to teach graduate level courses, participate in the conduct of the graduate programs, and supervise graduate students. Each member of the Graduate Faculty is reviewed on a three year cycle to document his/her participation in graduate education activities.

Part-time faculty who are approved by the Graduate Council to teach a graduate course are appointed as Adjunct Graduate Faculty. Such appointments are for specific assignments and are renewable but not perpetual.

GENERAL INFORMATION FOR GRADUATE STUDENTS

Application for admission to the graduate programs or general graduate study as an unclassified graduate may be made at any time. It is recommended, however, that at least two months before the final enrollment, the Graduate Admissions Office will have received the application for admission and transcripts of all undergraduate and graduate work. This will provide sufficient time to process the application prior to the semester the applicant wishes to commence his graduate study. Petitions for exceptions will be directed to the Graduate Dean. The transcripts are to be sent directly to the Boise State University Graduate Admissions Office by the Registrar of the college or university which the applicant previously attended. For that purpose the applicant should communicate with the Registrars concerned and then allow them sufficient time to process and mail the transcripts.

All documents received by the University in conjunction with such applications for admission become the property of Boise State University. Under no circumstances will they be duplicated except for university advisement, nor the original returned to the applicant or forwarded to any agency or other college or university.
GRADUATE SCHOOL

ADMISSION TO THE GRADUATE SCHOOL
A student may be admitted to the Graduate School at Boise State University when the following admissions criteria have been met:

1. The applicant has earned a Bachelor's degree from an accredited institution, or furnishes proof of equivalent education.
2. The applicant has maintained a grade point average which meets the minimal requirements of the School in which he wishes to enroll. Students interested in graduate work in business are directed to page 93, education students should see page 109, and public administration students should see page 69.
3. Completion of the predictive examination required by the department as listed under department criteria.
4. Recommendation for admission by the department in which the students expects to work and approval by the Graduate School.

UNCLASSIFIED STATUS CLASSIFICATION
Persons who feel qualified to profit from graduate courses may enroll in these under "Unclassified Status" provided the following conditions are met:

1. The student has successfully completed all courses that are prerequisite to the graduate course for which he is enrolling.
2. There is space available for the class.
3. The student has obtained permission to enroll in the course from the instructor or the graduate program director.

A student given "unclassified status" is not admitted to the Graduate School and academic credits earned may not necessarily be accepted towards a graduate degree if the student applies for and is admitted to the Graduate School at a later time.

Provisional Status: An applicant may be admitted to the Graduate School with provisional status if the department or academic unit in which he plans to study require additional evidence of his qualification for admission with regular status. No student may maintain provisional status indefinitely. The department or academic unit concerned will normally make a final determination on a student with provisional status by the time he has completed twelve (12) credits of approved study.

GRADUATE STATUS CLASSIFICATIONS FOR MATRICULATED STUDENTS
Applicants may be admitted to the Graduate School under two classifications:

 Regular Status: The student has been admitted with full graduate status into a graduate degree program and has received official institutional notification to that effect.
 Provisional Status: An applicant may be admitted to the Graduate School with provisional status if the department or academic unit in which he plans to study require additional evidence of his qualification for admission with regular status. No student may maintain provisional status indefinitely. The department or academic unit concerned will normally make a final determination on a student with provisional status by the time he has completed twelve (12) credits of approved study.

GRADUATE COURSES FOR UNDERGRADUATE CREDIT
Boise State University "sociors" may take up to two 500 level courses for upper division credit applied to their bachelors degree program. The necessary permit forms are available through the Graduate Admissions Office and the office of each dean. Determination of what constitutes a "senior" for the purpose of this policy is left to the Graduate Dean.

GRADUATE CREDIT FOR SENIORS
A Boise State University senior, with the approval of the department in which he plans to work and the Graduate Dean, may enroll for graduate credit during his senior year. Insofar as these credits will not prejudice his graduation during that academic year, the necessary Senior Permit Forms are available at the Graduate Admissions Office, and the office of each dean. Credits earned in this manner are "reserved" to count toward a graduate degree at BSU.

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

To be eligible for a degree in the Graduate School, a student must achieve a grade point average of "B" (3.00) or better in all work, exclusive of deficiencies, specifically included in his program of study. No grade below "B" may be used for any 300 or 400 level courses in a graduate program. Grades below "C" cannot be used to meet the requirements of a graduate degree. Grades on transfer work will not be included in computing grade point average.

REPEAT, RETAKE POLICY
A student who earns a grade of "D" in a 500 series course at Boise State University may include no more than one repeated course toward a master's degree program. A student who earns a grade of "F" may not count a retaken course toward any master's degree program at Boise State University. Therefore, if a student who gets an "F" in a required course is automatically excluded from further master's degree work. With a "D" in one of these courses there is a single chance of redemption.

CREDIT REQUIREMENTS
A minimum of thirty (30) semester credits of course work approved by the graduate student's supervisory committee is required.

GRADUATE COURSES FOR SENIORS
More than thirty (30) semester credits may be required in certain programs.

SUPERVISORY COMMITTEE ASSIGNMENT

Upon admission of the applicant with regular graduate status, a supervisory committee, consisting of a chairperson and other faculty members, will be appointed by the department fielding the program. This supervisory committee or the advisor, as determined within each department of study, will establish the student a program of study, direct any thesis or graduate projects, and administer his final examination(s).

Students admitted with provisional status will be assigned a temporary advisory who will be responsible for building a tentative program of studies. This advisor will guide the student with respect to meeting the stipulations of the provisional admission. Once the provisional stipulations have been satisfactorily met by the student, the department concerned will recommend to the Dean of the Graduate School that the student be admitted with regular graduate status.

RESIDENCE REQUIREMENTS
A minimum of twenty-one (21) semester credits of approved graduate work taken on the university campus is required. This requirement does not apply to students enrolled in any inter-institutional cooperative graduate program offered jointly by BSU and the other Idaho universities.

TRANSFER OF CREDITS

A maximum of nine (9) semester graduate credits taken at other institutions may be transferred to Boise State University, provided the courses are an acceptable part of the program of study planned by the student's supervisory committee. Such courses must have been taken in an accredited college or university. Only courses with "A" or "B" grade may be transferred to Boise State University for application to a graduate degree. In general, the transfer of extension credits is discouraged. Exception may be made by departments after a detailed examination of the specific courses taken. No correspondence courses will be accepted for graduate credit. All appropriate graduate work taken through inter-institutional cooperative graduate programs, if approved by the schools fielding the program, can be accepted as residence credit.

TIME LIMITATIONS
All work offered toward a master's degree from Boise State University must be completed within a period of seven (7) calendar years. The seven (7) year time interval is to commence with the beginning of the oldest course (or other academic experience) for which credit is offered in a given master's degree program, and the interval must include the date of graduation when the master's degree from Boise State is given.

CHALLENGE POLICY
The provisions of the challenge policy stated in the catalog section, Admission Requirements to the College under subsection Challenging Courses, Granting Credit by Examination (see page 13) apply to graduate courses. In particular, the decision to allow or not
to allow challenges will be made by the department fielding the course to be challenged. For interdisciplinary courses, the decision will be made by the school officer in charge of the graduate program to which the course applies.

FOREIGN LANGUAGE REQUIREMENTS

Language requirements are determined by the department concerned. If a foreign language is required, the student must demonstrate that he possesses a reading knowledge of a language specified by the department.

THESIS REQUIREMENTS

The requirement of a thesis or similar project is determined by the department or interdisciplinary unit concerned. The final copy of the thesis must be reviewed by the student's supervisory committee and submitted to the Dean of the Graduate School at least three (3) weeks before commencement.

CANDIDACY

A student should apply for admission to candidacy and graduation as soon as he has completed twelve (12) hours of graduate work with a grade-point average of at least 3.00 in an approved graduate program of study, has removed all listed deficiencies, and has met any specific foreign language requirements.

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

PROGRAM DEVELOPMENT FORM

Graduate students in Regular or Provisional Status will complete a Program Development Form with their advisor or committee before the end of the first academic period (summer, fall or spring) in which they take graduate work at Boise State University, after having been notified of admission in Regular or Provisional Status.

This rule does not apply to students admitted in Unclassified Status, (these are admitted only to Boise State University and not to the Graduate School) because these students are not candidates for a graduate degree.

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

Changes in the Program Development Form, prior to admission to candidacy, are made by the student's committee or advisor, as determined within each degree program, and approved by the Dean of the appropriate school.

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

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

FINAL EXAMINATION REQUIREMENTS

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

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

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

APPLICATION FOR PREDICTIVE EXAMINATIONS

As previously indicated, predictive examination scores may be required by certain departments. With respect to those departments which stipulate as part of the admissions criteria performance scores from predictive examinations, it is necessary that application be made without delay to take the examination. Education and public administration students are not required to take a predictive examination.

Students wishing to pursue graduate study in Business Administration should contact the Office of the Dean, School of Business, Boise State University, to secure the forms necessary to make application for taking the predictive examination called the GMAT. Every effort should be made to take the GMAT as soon as possible because students will not be given program status before the GMAT results are reported. Courses taken before the student is admitted (i.e. "Unclassified status courses) will not necessarily be allowed toward the M.B.A., even if the student is admitted subsequently.

Credit Limitation in Courses Graded Pass or Fail and Directed Research

599—CONFERENCE AND WORKSHOP

A maximum of three (3) credits earned with a grade of P will be allowed toward the credit requirements for a master's degree at Boise State University.

596—DIRECTED RESEARCH

Master's programs at Boise State University may include directed research credits, at the discretion of the graduate student's supervising committee or professor, through a limit of 9 credit hours, with no more than 6 credits in any one semester. The School of Business has a limitation of 3 credits of Internship and/or Directed Research for MBA students.

ELEMENTARY EDUCATION WITH CONTENT ENRICHMENT

The curriculum in Elementary Education with Content Enrichment is essentially the same as the curriculum in Elementary Education. The distinctive feature is that an approved program may be designed for specialization in a given departmental area such as art, humanities, mathematics, music, or earth science, to name just a few possibilities. Approved programs will include the basic elementary core of nine (9) semester hours and will allow no more than fifteen (15) of the remaining hours to be in any one departmental area. Various departments in The School of Arts and Sciences offer graduate courses designed especially for students in the Elementary Education programs.

LIMITATIONS ON STUDENT COURSE LOADS

Graduate students seeking to take courses for graduate credit only in the evening or only in the early morning and in the evening may not take more than a total of two such courses in any one semester or summer session. Waiver of this rule may be granted by the Dean of the Graduate School with the explicit recommendation of the Dean of the School of Arts and Sciences.

COURSE NUMBERING SYSTEM

Courses numbered 500 and above are intended primarily for graduate students. The number designates the educational level of the typical student in the class, i.e. he has graduated from college. Other courses than graduate, numbered at the 300 or 400 levels, may be given G designation to carry graduate credit. The department or school concerned will have the right to limit the number of G or G credits which can count toward any degree for which it has responsibility, and in no case can more than one-third of the credits
in a degree program be in courses at the 300 or 400 level. No course numbered below 500 carries graduate credit unless the G or g is affixed.

1. G courses carry graduate credit only for graduate students in majors outside of the area of responsibility of the department or school.

2. G courses carry graduate credit for students both in the department or school, and for other students as well.

3. Graduate students enrolled in G or g courses will be required to do extra work in order to receive graduate credit for the courses.

APPLICATION FOR GRADUATE DEGREE

The last step in completing a graduate program consists of arranging for final record checking. To accomplish this, one completes the form entitled Application for Graduate Degree which can be obtained from the Graduate Admissions Office or from the Dean of Business or Education. The Bookstore will notify the student how to order the cap and gown for the graduation ceremony.

UNIVERSITY-WIDE NUMBER OF GRADUATE OFFERINGS:

580-589 Selected topics
590 Practicum
591 Project
592 Colloquium
593 Research & Thesis
594 Extended Conference or Workshop
(Graded A-F)
595 Reading and Conference
596 Directed Research
597 Special Topics
598 Seminar
599 Short-Term Conference or Workshop
(Graded Pass or Fail). This number is available in any semester or session for courses meeting three (3) weeks or less.

Course listings and descriptions for graduate and undergraduate courses available for graduate credit can be found in the departmental listings of courses.
AREA VO-TECH SCHOOL

Director: Gilbert McDonald Miller
Assistant Director: Glen Linder
Vocational Counselors: Callies, Quinowski, Trimble
Adult Basic Education Coordinator: Huff
Adult Program Coordinator: Rodgers
State Fire Trainer: Tyree

OBJECTIVES OF VOCATIONAL EDUCATION
To provide the opportunity for state and local citizens to acquire the education necessary:
(a) To become employed, to succeed, and to progress in a vocational-technical field.
(b) To meet the present and anticipated needs of the local, state, and national economy for vocational-technical employees.
(c) To become contributing members of the social, civic, and industrial community.
CURRICULUM CHANGES:
Curriculum changes may be made at any time with the approval of the Curriculum Committee to meet the needs of industry.

ADMISSIONS REQUIREMENTS:
Application materials may be obtained from the Director of Admissions Office, Boise State University.
(a) To fully matriculate a student must have on file in the Admissions Office a completed application and $10 fee.
(b) Educational Background: Request a transcript of High School credits and, if applicable, a transcript of College credits be sent by the institution(s) directly to the Vocational Technical School.
(c) Aptitude Test. Contact the nearest local office of the Department of Employment and request a General Aptitude Test Battery to be taken and request that the office send the results directly to the Vocational-Technical School, Boise State University, Boise, Idaho 83725.
(d) Pay $75 advance registration fee. This fee will apply on the regular registration fee.
(e) Personal Interview: A personal interview is required.
(f) High school graduation or a G.E.D. is required in some programs and preferred in the others. All non-high school graduates must be out of high school one complete semester.

DEPARTMENT OF HEALTH OCCUPATIONS

Department Head: Bonnie J. Sumter; Dental Assisting: Harris, MacInnis; Operating Room Technology: M. Curtis, Gollick; Practical Nursing: Bowers, Dallas, Matland, Towle.

DENTAL ASSISTANT—CURRICULUM
9 Month Program
The Dental Assisting Program consists of Dental Assistant Theory, Dental Laboratory instruction and Clinical Experience, Boise State University works with the Dental Advisory Board in planning and promoting the program and curriculum. Changes may be made at any time to take advantage of advances in the Dental profession.

Entrance requirements: High School Diploma or Equivalency Certificate, acceptable scores on the G.A.T.B., personal interview and aptitude testing. Typing is a prerequisite. The dental assistant courses are taught by dental assistant instructors and guest dental lecturers.

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

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<th>SUBJECT</th>
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<td>DA 101-102 Dental Laboratory</td>
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<td>DA 106 Dental Assisting Clinical Experience</td>
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<td>DA 108 Dental Office Management</td>
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<td>DA 109 Public Health and Dental Hygiene</td>
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<td>DA 111-112 Communication Skills</td>
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<td>DA 151-152 Dental Theory</td>
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<td>DA 262 Occupational Relationships</td>
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<td>CM 111 Fundamentals of Speech</td>
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<td>PE 105 First Aid (Elective)</td>
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COURSES

DA DENTAL ASSISTING

101-102 Dental Laboratory (3-4 credits). This course consists of practical laboratory training in manipulation of dental materials, instrumentation, sterilizing and care, pouring and trimming study models, custom trays, use of equipment and safety, and exposing and processing dental X-rays. Taken concurrently with DA 151-152. Fourteen clock hours per week. Fall semester. Minimum of six hours a week. Spring semester.

106 Dental Assisting Clinical Experience (3 credits). Supervised chairside assisting experience in the private dental offices and dental clinics. Sixteen clock hours a week. Spring semester.

108 Dental Office Management (2 credits). The fundamentals of business practices as related to dentistry including bookkeeping, appointment control, supply control, business correspondence, as well as credit and collection procedures. Two clock hours per week.

109 Public Health and Dental Hygiene (2 credits). This course deals with phases of health in which the student can aid in conserving the general and dental health of herself, her family and the community. It is concerned with such subjects as Federal and State Health Departments, preventive dentistry, communicable disease, degenerative disease, diet and nutrition, muscular health and general health information. Two clock hours per week.

111, 112 Communication Skills (3 credits). To manage symbols and discover meaning, clearly and exactly is the performance objective of Communication Skills. As trainee, worker, citizen and human being, regardless of preparation and background, each student is provided opportunity through individual and group projects to identify and resolve communication issues relevant to his own need and career. This is a two semester course designed to maximize personal development.

151-152 Dental Theory (4-3 credits). Comprehensive introduction to basic theory relating to dental assisting. The course includes lecture time in ethics, professional relationships, patient education, dental anatomy, terminology, charting, related sciences, and dental specialty fields. Taken concurrently with DA 101-102. Six clock hours per week. Fall semester. Six clock hours per week. Spring semester.


OPERATING ROOM TECHNOLOGY
9 Month Program
The Operating Room Technology Program, in cooperation with St. Alphonsus Hospital is approximately nine months in length and consists of daily practice in surgery and classroom instruction. A certificate will be awarded upon graduation from the course. Students are then eligible to take a certifying exam, which if passed, qualifies them as Certified Operating Room Technicians recognized by the Association of Operating Room Technicians and the Association of Operating Room Nurses and the American College of Surgeons.

This Program has been accredited by the Joint Review Committee on Education for the Operating Room Technician, sponsored by American Medical Association Council on Allied Health Education.

ADMISSION:
Entrance requirements: High School graduation or passing the General Educational Development Test. Satisfactory scores on the General Aptitude Test Battery. These tests are given at the Department of Employment and Boise State University respectively. A complete medical and dental examination is required. A personal interview with the instructor is necessary before admission.

Classroom work includes instruction in basic sciences of anatomy and physiology, microbiology, bacteriology, aseptic technique, instruction in the needs of humans in surgery, with emphasis on the operating room technician's part in meeting these needs.

Clinical experience consists of supervised hospital surgical experience in the operating room in all phases of surgery.

Refund policy — Section I of the Catalog.

PRACTICAL NURSING PROGRAM
12 Month Program
The practical nursing program, in cooperation with three hospitals, a Long Term Care Facility and the State Board for Vocational Education, is approximately one calendar year in length and consists of hospital nursing experiences and classroom instruction. A certificate is awarded upon graduation from the course. Students are then eligible to take the state licensing examination, which, if passed, qualifies them to practice as Licensed Practical Nurses. The program is approved by the Idaho Board of Nursing.

ADMISSION:
Entrance requirements: High School graduation or passing the General Educational Development Test. Satisfactory scores on the General Aptitude Test Battery and a pre-entrance test, which are given by the Department of Employment and Boise State University respectively. A complete medical and dental examination is required. The selection Committee reserves the right to make final decisions to the director candidates for the program after a personal interview.

Classroom work includes instruction in the needs of individuals in health and in sickness, with emphasis on the practical nurses' part in meeting these needs.
experience in caring for patients with medically and surgically treated conditions, caring for sick children, new mothers and infants, rehabilitation and remobilization techniques in care of the aged and long-term patient. Failure to meet requirements in either theory or clinical areas may result in termination from the program.

DEPARTMENT OF HEAVY TECHNOLOGIES

Department Head: Gary Arambarri; Air Conditioning: Tucker; Industrial Plant Maintenance: Allen; Machine Shop: Baggerly; Clarkson; Utility Lineman: Waugh; Welding: Arambarri, Baldner, Ogden.

AIR CONDITIONING, REFRIGERATION AND HEATING

11 Month Program

The Air Conditioning, Refrigeration, and Heating curriculum offers laboratory experience, theory classes and related subjects, designed to prepare students for entry level jobs.

Emphasis will be on the servicing of commercial equipment and will cover all phases of knowledge necessary to repair the equipment.

The student will learn to work with tools and equipment with emphasis on safety at all times.

Credits in this program are not counted toward an academic degree.

Course No. and Title | Fall | Spring | Summer
--- | --- | --- | ---
Air Conditioning Lab | 10 | 10 | 10
Air Conditioning Theory | 5 | 5 | 5
Occupational Relationships | 2 | - | -

Total Credits: 17

COURSES

RH AIR CONDITIONING, REFRIGERATION, AND HEATING

121-122 Air Conditioning, Refrigeration, and Heating Laboratory (10-10-10 credits)

These courses provide the laboratory application of principles covered in the Theory class. Skills will be developed and practiced will be given in these skills which will be needed by the service person. Different phases of air conditioning, refrigeration, and heating will be covered. 25 hours per week.

141-142-143 Air Conditioning, Refrigeration, and Heating Theory (5-5-5 credits)

This course provides a basic understanding of the equipment and tools used on commercial equipment. Emphasis is on causes of breakdown and the making of necessary repairs. Test equipment use and inspection of components such as relays, thermostats, motors, and refrigerant lines are studied. 10 clock hours per week.

262 Occupational Relationships (2 credits)

Techniques of obtaining employment, relationships among workers and supervisors, resolution of human relationship issues of shop and office. One semester, credit course.

MECHANICAL PLANT MAINTENANCE

9 Month Program

The Mechanical Plant Maintenance curriculum will provide the student with laboratory experience, practical theory, and related instruction. These courses include mathematics, basic electricity, blueprint reading, hydraulics, pneumatics, welding, machine tool procedures and troubleshooting.

Preventive maintenance and job safety will be stressed. Emphasis will be on obtaining beginning skills necessary to prepare students for entry level jobs in the expanding maintenance field.

Credits in this course of study are not counted toward an academic degree.

Course No. and Title | Fall | Spring | Summer
--- | --- | --- | ---
Mechanical Maintenance Lab | 10 | 10 | -
Mechanical Maintenance Theory | 5 | 5 | -
Occupational Relationships | 2 | - | -

Total Credits: 16

COURSES

PM MECHANICAL PLANT MAINTENANCE

121-122 Mechanical Plant Maintenance Laboratory (10-10 credits)

These courses provide the laboratory application of principles covered in theory classes. Fall semester coverage will concentrate on basic welding for the maintenance field, including oxy-acetylene, stick electrode, M.I.G., T.I.G., and similar procedures. Spring semester emphasizes beginning foundations in maintenance machine tool operations using the lathe, milling machine, and other equipment found in the machine shop. Related topics will be included. 20 clock hours per week.

141-142 Mechanical Plant Maintenance Theory (5-5 credits)

These courses include mathematics, basic electricity, pneumatics, hydraulics, blueprint reading, safety, troubleshooting, and other subjects related to the maintenance field. 10 clock hours per week.

163 Occupational Relationships (2 credits)

Techniques of obtaining employment, relationships among workers and supervisors. Resolution of human relationship issues of shop and office. One semester, non-graded, credit course.

MACHINE SHOP

2-Year Program

The machinist's course consists of shop work and related instruction in the use of hand and 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.

COURSES

MS MACHINE SHOP

101, 102 Machine Shop Laboratory (8 credits)

The course covers safety, shop practice, good work habits, and production rates. The set-up and operation of the lathes, milling machines, drill presses, shapers, power saws, grinders, bench work, layout, and the use of special attachments. Twenty laboratory hours per week, each semester.

111 Communication Skills (3 credits)

To manage symbols and discover meaning, candor, clarity, and exactly is the performance objective of Communication Skills. As trainee, worker, citizen, and human being, regardless of preparation and background, each student is provided opportunity through individual and group projects to identify and resolve communication issues relevant to his own need and career. This is a two semester, credit course designed to maximize personal involvement.

121-122 Related Blueprint Reading (3-3 credits)

A study of the principles and techniques of reading blueprints as applied to the Machine Shop. The mathematics of fractions, decimals and angular dimensions will also be studied. The sketching and drawing of actual shop type prints will enable the student to better understand the techniques used in the reading of Machine Shop blueprints. 4 hours per week lecture and lab.

132 Related Basic Math (2 credits)

A study of fractions, decimals, metric system and basic math processes such as addition, subtraction, division and multiplication as applied to the machine shop. One semester, 2 clock hours per week.

151, 152 Related Theory (6-6 credits)

This course provides the knowledge necessary for the machinist student to understand the machining processes and their application as practiced in the laboratory course. Safety and good shop policy are emphasized in all phases of instruction. Set-up, care and maintenance of the machine tools as well as the theory of measuring tools, metal cutting, selection of metals, tool design, coolants, allowance and tolerances, and production methods. Related mathematics as applied to set up, indexing, tool speeds, feeds, layout, measuring of incements, and metalurgy will also be studied. (Prerequisite for MS 152: MS 151).

201, 202 Advanced Machine Shop Laboratory (8 credits)

The set-up and operation involving manipulative training and increase skill in the use of lathes, milling machines, drill presses, shapers, power saws, tools and cutter grinding, surface grinder, heat testing, hardens testing, layout, inspection, tracer lathe, and numerical control mill set-up, operation and programming. Twenty laboratory hours per week each semester. Prerequisite: Machine Shop Laboratory MS 1-2.

221 Blueprint Reading and Layout for the Machinist (2 credits)

Three dimensional drawing and hand sketching of mechanical devices will be covered. One semester, 2 clock hours per week.

231-232 Related Adv. Math (4-4 credits)

A study of trigonometry and geometry as applied to shop problems and the mathematics needed for numerical control machining. A study of scientific principles required in the machinist trade is also studied. Six clock hours per week each semester.
VOCATIONAL-TECHNICAL SCHOOL

251-252 Adv. Machine Shop Theory (3-2 credits). The composition of grinding wheels, metallurgy and heat treatment of metals, the programming of numerical controlled machines, as applied to the machinist. Also basic foundry processes are studied. Two semesters, 5 credit hours per week.


ELECTRICAL LINEMAN
11 Month Program

The Electrical Lineman curriculum provides the student with both field training and practical theory in all phases of power line installation and maintenance. The program is designed to produce a skilled apprentice lineman. In addition, the student will earn a completion card in the American Red Cross multi-media First Aid Course.

In the laboratory the student will work on real equipment such as transformers. In the field he will perform underground, overhead distribution, and construction and maintenance. The student will learn to work with all necessary tools and equipment of his craft with emphasis on safety at all times.

Credits in this course of study are not counted toward an academic degree.

<table>
<thead>
<tr>
<th>Course No. and Title</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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</thead>
<tbody>
<tr>
<td>EL-101-102-103 Lineman Lab</td>
<td>10</td>
<td>10</td>
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<tr>
<td>EL-151-152-153 Lineman Theory</td>
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<td>EL-262 Occupational Relationships.</td>
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</tbody>
</table>

COURSES

EL ELECTRICAL LINEMAN

101-102-103 Lineman Laboratory (10 credits). The field training consists of actual job experience in an "out-of-doors" school laboratory. It will cover climbing, setting and removing various sizes of poles, framing, guy work, use of conductors, transformers, street lights, installation of services, tree trimming, and the use and care of safety equipment. 25 hours per week.

151-152-153 Lineman Theory (6 credits). The related theory for the Lineman Program conducted in the classroom and laboratory facility is so arranged to provide ample opportunity for acquaintance with the materials and hardware of the trade, while at the same time covering the theory of their use. An application of education basic to the trade will be emphasized with classes in electricity, blueprint reading, construction techniques, transmission, distribution systems, underground procedures, first aid and safety. 10 hours per week.


WELDING
2-Year Program

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

<table>
<thead>
<tr>
<th>FRESHMAN YEAR:</th>
<th>1ST SEM.</th>
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<tbody>
<tr>
<td>W 101-102 Welding Lab</td>
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<tr>
<td>W 111 Welding Communications</td>
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<tr>
<td>W 121-122 Basic Blueprint Reading</td>
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<tr>
<td>W 151-152 Welding Theory</td>
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<tr>
<td>W 262 Occupational Relationships</td>
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<th>SOPHOMORE YEAR:</th>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
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<tbody>
<tr>
<td>W 201-202 Welding Lab</td>
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<tr>
<td>W 212 Shop Management</td>
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<tr>
<td>W 221-222 Advanced Blueprint Reading &amp; Layout</td>
<td>3</td>
<td>3</td>
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<tr>
<td>W 241-242 Welding Science</td>
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<td>18</td>
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</tbody>
</table>

COURSES

WELDING

101-102 Welding Laboratory (6 credits). This course covers oxyacetylene burning by manual and automatic methods; oxyacetylene welding and brazing; arc welding using mild steel and low alloy steel electrodes in all positions; continuous wire feed welding processes; and submerged arc welding process. The successful completion of this phase of the program will prepare the student for employment as a production welder or to take the second year of the program. Twenty clock hours per week each semester.

111 Welding Communications (3 credits). A study and practice of the principles and techniques of blueprint reading and layout as applied to welding trades. Sketching and drawing will enable the student to understand the techniques of layout used by the welding industry. Basic related math that is necessary to perform the layout problems in plate and structural steel industry will be provided.

151-152 Welding Theory (3 credits). This course provides the knowledge necessary for the welding student to understand the welding processes and their application as practiced in the laboratory course. Safety is emphasized in all phases of instruction. The set-up, care and maintenance of oxyacetylene equipment as well as the theory of oxyacetylene burning, welding and brazing is studied. Arc welding equipment and methods are studied with the selection of electrodes for welding of mild and low alloy steels. Continuous feed and submerged arc welding processes are covered. Four hours per week, both semesters.

201-202 Advanced Welding Laboratory (8 credits). Welding practical is concentrated on those skills necessary to be able to pass various certification tests in the following areas: pipewelding with oxy-acetylene, arc and T.G.P. processes, plate with mild steel and high strength stick electrodes. Note: Boise State University does not issue welder performance certification. Prerequisite: Welding Lab W-102.

212 Shop Management (3 credits). This course covers shop safety, determining welding cost, for job quality control and installation and maintenance of equipment. Three clock hours per week.

221-222 Advanced Blueprint Reading and Layout (3 credits). A continuation study of advanced methods of layout and fitting as related to the plate, structural and piping industry. Related math necessary to perform these layout and fitting problems. Prerequisite: Basic Blueprint Reading and Layout W-121-122.

241-242 Welding Science (4 credits). First semester—Study of the basic metallurgy properties of metals and tests to determine their uses; the iron carbon diagram and the part carbon steel. Principles of blueprint reading and layout as applied to welding trades. Sketching and drawing will enable the student to understand the techniques of layout used by the welding industry. Basic related math that is necessary to perform the layout problems in plate and structural steel industry will be provided.


BASIC WELDING

9 Month Program

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

<table>
<thead>
<tr>
<th>FRESHMAN YEAR:</th>
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<tbody>
<tr>
<td>W 101-102 Welding Lab</td>
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<tr>
<td>W 111 Welding Communications</td>
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<td>3</td>
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<tr>
<td>W 131-132 Related Basic Math</td>
<td>3</td>
<td>3</td>
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<tr>
<td>W 151-152 Welding Theory</td>
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<td>2</td>
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<tr>
<td>W 262 Occupational Relationships</td>
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</table>

BASIC WELDING

Basic Welding courses are described under Welding.
DEPARTMENT OF LIGHT TECHNOLOGIES


ELECTRONIC-MECHANICAL SERVICE TECHNICIAN

The Electronic Mechanical Service Technical program provides training for the individual that wishes to repair electronic or mechanical devices. The emphasis in this program is how to repair and very little on the mathematical or theoretical approach. Students entering into this program have two options open to them before graduation. At the end of the freshman year they may choose Consumer Electronics or Business Machine Technician. During the sophomore year, the student will specialize in one of these two fields.

Students graduating from either field will receive a diploma. Credits in this curricula are generally not transferable toward an academic degree.

FRESHMAN YEAR:

1ST SEM. 2ND SEM.
ES 101-102 Mechanical Lab 4 4
ES 103-104 Electronics Lab 2 2
ES 113 Customer Relations 2 —
ES 132 Small Business Math — 3
ES 151-152 Mechanical Theory 2 2
ES 153-154 Electronic Theory 3 3
MM 213 Credits & Collections — 2
ES 130 Related Electronic Math — 3
— —
16 16

CONSUMER ELECTRONICS (OPTION)

1ST SEM. 2ND SEM.
ES 203-204 Electronics Lab 11 11
ES 253-254 Applied Theory & Shop Mgmt 3 3
ES 271-272 Digital Electronics 3 3
17 17

SOPHOMORE YEAR:

1ST SEM. 2ND SEM.
BM 201-202 Adv. Business Machine Lab 7 7
ES 271-272 Digital Electronics 3 3
16 16

BUSINESS MACHINE TECHNOLOGY (OPTION)

The course and outline in Business Machine Technology has been developed to give the student of the course enough basic knowledge to be productive and able to perform the average job without any additional training. 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 technician. He will be trained in Basic Electronics, testing procedures, and maintenance techniques for manual, electric, and electronic business machines. Prerequisite: Electronic-Mechanical Service Technician one year Freshman course.

SOPHOMORE YEAR:

BM 201-202 Adv. Business Machine Lab 7 7
ES 271-272 Digital Electronics 3 3
16 16

COURSES

BM BUSINESS MACHINE TECHNOLOGY

201-202 Adv. Business Machine Laboratory (7 credits). A self-paced workshop where student is able to practice concepts taught in ES 251-252 with special emphasis on trouble-shooting, adjustments, quality control, and the use of special test equipment, including multimeters and oscilloscopes. (18 clock hours per week). Prerequisite: ES 101-102.

251-252 Adv. Business Machine Theory (6 credits). This is a hands on type theory course where the student is taught basic concepts of Business Machines including: adding machines, calculators, copy machines, electronic business machines and duplicator processes with trouble-shooting techniques. Also taught are shop management and related selling techniques. (10 clock hours per week). Prerequisite: ES 151-152.

PRE-TECHNICAL SEQUENCE

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

COURSES

PT PRE-TECHNICAL

010 Blueprint Reading and Basic Mechanical Drawing (3 credits equiv). An introductory course in blueprint reading, sketching and drafting methods and procedures. Ten hours per week-lecture lab.

020 Introduction to Technical Communications (3 credits equiv.) A survey course of communication systems, use of technical libraries, forms, reports and technical language, word usage, spelling and proper forms emphasis. Three hours per week lecture.

030 Introduction to Technical Mathematics (4 credits equiv.) Survey and review of mathematical principles and methods. Uses of mathematics in technical fields with practical examples of application. Five hours per week-lecture.

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

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

VOCATIONAL-TECHNICAL SCHOOL
DRAFTING TECHNOLOGY

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

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DT 101 Drafting Lab and Lecture</td>
<td>4</td>
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<tr>
<td>DT 111 Communication Skills</td>
<td>3</td>
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<tr>
<td>DT 131 Mathematics</td>
<td>5</td>
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<tr>
<td>DT 141 Science</td>
<td>3</td>
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<tr>
<td>DT 153 Manufacturing Processes</td>
<td>2</td>
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Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DT 102 Drafting Lab and Lecture</td>
<td>4</td>
</tr>
<tr>
<td>DT 112 Communication Skills</td>
<td>3</td>
</tr>
<tr>
<td>DT 122 Introduction to Surveying</td>
<td>3</td>
</tr>
<tr>
<td>DT 132 Math</td>
<td>4</td>
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<tr>
<td>DT 142 Science</td>
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Third Semester

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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DT 201 Drafting Lab and Lecture</td>
<td>4</td>
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<tr>
<td>DT 221 Descriptive Geometry</td>
<td>4</td>
</tr>
<tr>
<td>DT 231 Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>DT 241 Statics or DT 242 Strength of Materials</td>
<td>4</td>
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<tr>
<td>DT 253 Design Orientation</td>
<td>2</td>
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<tr>
<td>DT 262 Occupational Relationships</td>
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Fourth Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DT 202 Drafting Lab and Lecture</td>
<td>4</td>
</tr>
<tr>
<td>DT 222 Technical Report Writing</td>
<td>2</td>
</tr>
<tr>
<td>DT 232 Applied Mathematics</td>
<td>2</td>
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<tr>
<td>DT 242 Strength of Materials of DT 241 Statics</td>
<td>3</td>
</tr>
<tr>
<td>DT 263 Specialized Graphics</td>
<td>2</td>
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</tbody>
</table>

or approved elective

DT DRAFTING TECHNOLOGY

101 Drafting Laboratory and Lecture (4 credits). Mechanical Drafting with basic drafting techniques, standards, and methods. 15 clock hours per week.

102 Drafting Laboratory and Lecture (4 credits). Architectural drafting with tension compression and bending; introduction to limited structural design. 15 clock hours per week. Prerequisite: DT 101.

111, 112 Communication Skills (3 credits). To manage symbols and discover meaning, clearly and exactly is the performance objective of Communication Skills. As trainee, worker, citizen and human being, regardless of preparation and background, the student is provided opportunity through individual and group projects to identify and resolve communication issues relevant to his own need and career. This is a two semester, credit course designed to maximize personal involvement.

122 Surveying (3 credits). Introduction to surveying, methods and computation. Required field work, with emphasis on compiling data and office processing. Five clock hours per week. Prerequisite or corequisite with DT 132.

131 Mathematics (5 credits). Fundamentals of algebra with an introduction to trigonometry and the use of calculations. Prerequisite: satisfactory grade in high school algebra or equivalent. Five clock hours per week.

132 Mathematics (4 credits). Advanced algebra and trigonometry, closely integrated with drafting, surveying and science. Prerequisite: DT 131 or equivalent. Four clock hours per week.

141 Applied Physics (3 credits). A general survey of physics with emphasis placed on principles of mechanics applied to solids and to fluids.

142 Applied Physics (3 credits). Course: the basic principles of heat, sound, light, electricity, and magnetism, correlated with technical mathematics DT 132. Four clock hours per week. Prerequisite: DT 141.


201 Drafting Laboratory and Lecture (4 credits). Civil drafting, mapping, highway curves, and earthwork. Fifteen clock hours per week. Prerequisite: DT 122, DT 132, DT 102.

202 Drafting Laboratory and Lecture (4 credits). Structural drafting terminology, structural and reinforcing steel specifications and drawing practice. Prerequisite: DT 201, DT 221. Fifteen clock hours per week.

221 Descriptive Geometry and Development (3 credits). Theory and practice of coordinate projection applied to the solution of properties of points, lines, planes and solids with practical drafting applications. Four clock hours per week.

222 Technical Report Writing (2 credits). A course to provide an understanding and practice in the processes involved in technical writing and methods of preparing report based on problems related to the student's curriculum. Two clock hours per week.

231 Applied Mathematics (3 credits). Solution of practical problems involving concepts from DT 131 and DT 132 Math. Prerequisite: DT 132. Four clock hours per week.

232 Applied Mathematics (3 credits). Prerequisite: DT 231. Four clock hours per week. Application and expansion of mathematics, statics and strength of materials. Related to lab projects.

241 Statics (4 credits). Introductory course in statics with emphasis on analysis of simple structures. Four clock hours per week. Prerequisite: DT 132.

242 Strength of Materials (4 credits). Analysis of stress and strain in torsion, tension, compression and bending, introduction to limited structural design. Four clock hours per week. Prerequisite: DT 132.

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


263 Specialized Graphics (2 credits). An intensive study of perspective and rendering as used in industrial illustration, and architectural rendering and civil engineering graphics. Laboratory-laboratory. Three clock hours per week.

ELECTRONICS—CURRICULUM

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

Credits in these courses of study are generally not counted toward an academic degree.

FRESHMAN YEAR:

<table>
<thead>
<tr>
<th>Course</th>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
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<tbody>
<tr>
<td>ET 101-102 Electronics Laboratory</td>
<td>2</td>
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<tr>
<td>ET 104 Digital Computer Programming</td>
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<tr>
<td>ET 111-112 Programming Mathematics</td>
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<tr>
<td>ET 151-152 Electronic Theory</td>
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<tr>
<td>ET 171-172 Circuit Analysis</td>
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SOPHOMORE YEAR:

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<th>Course</th>
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<tbody>
<tr>
<td>ET 201-202 Adv. Electronic Laboratory</td>
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<tr>
<td>ET 231-232 Advanced Electronic Math</td>
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<tr>
<td>ET 241-242 Advanced Electronic Science</td>
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<td>2</td>
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<tr>
<td>ET 251-252 Advanced Electronic Theory</td>
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<tr>
<td>ET 262 Occupational Relationships</td>
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<tr>
<td>ET 271-272 Digital Electronics</td>
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<tr>
<td>ET 282 Digital Systems Design</td>
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</tbody>
</table>

COURSES

ET ELECTRONICS

101 Electronics Laboratory (2 credits). Study of basic DC & AC electronics, color code, test equipment, L, C, R, components, basic semiconductors. Ten hours laboratory per week.

102 Electronics Laboratory (2 credits). A continuation of ET 101. Transistor fundamentals, switching circuits, & low frequency amplifiers. Prerequisite: Laboratory ET 101. Ten hours laboratory per week.

104 Digital Computer Programming (2 credits). Course for Electronics majors to introduce programming principle and logic using FORTRAN IV. Prerequisite: ET 131 or equivalent. Two clock hours per week.

111, 112 Communication Skills (3 credits). To manage symbols and discover meaning, clearly and exactly is the performance objective of Communication Skills. As trainee, worker, citizen and human being, regardless of preparation and background, each student is provided opportunity through individual and group projects to identify and resolve communication issues relevant to his own need and career. This is a two semester, credit course designed to maximize personal involvement.

131-132 Basic Electronics Mathematics (4-4 credits). First semester—Review of basic fundamentals of mathematics, algebra, geometry, and basic trigonometry. Second semester—A continuation of first semester, logarithms, an introduction to analytical geometry. The course will prepare the student for calculus. Five clock hours per week.

151 Electronics Theory (5 credits). The theory of basic electricity, color code, test equipment, L, C, and R components, transistors, vacuum tubes and an introduction to logic circuit. Five clock hours.

152 Electronics Theory (5 credits). A continuation of ET 151 with an emphasis placed on the function of the components, studied first semester, into systems in this course. These systems include basic amplifiers, AM receivers, and logic circuits. Special emphasis is placed on transistor circuit and design. Five clock hours per week.
Also, an introduction to digital electronics which will cover the basic: AND, OR, NAND, NOR, and INVERT. 2 clock hours per week.

171-172 Circuit Analysis (3 credits). The purpose of this course is to immediately get the student involved with useful circuits and schematic symbols and to make him employable at lower than electronic technician if his withdrawal from the program becomes necessary. This course advances to solid state electronic circuits as ET 151-152 gets to this point. Both semesters, the student is expected to analyze, debate, and report on circuits he is seeing for the first time. 5 clock hours.

201, 202 Advanced Electronic Lab (5 credits). These courses will follow the same description as ET 201-202 (Theory) but will be concerned with the test, measurement, and calibration of those circuits covered during theory. 10 clock hours.

211, 212 Advanced Electronic Math (3 credits). Differential and integral calculus is covered on a continuing basis throughout the semester. Second semester includes assembly of a group of integrals and discrete components to form complete electronic systems, radio frequency applications, and a sophisticated student project.

241-242 Electronics Science (2 credits). The application of the electro-electronics principles, to the measurements and control of the physical properties of heat, light, sound, etc. Prerequisite: ET 141. 2 clock hours per week.

251, 252 Advanced Electronic Theory (4 credits). The study of electronic circuits that usually include one or more integrated circuits (I.C.'s) and associated discrete components. Emphasis is placed on the many possible configurations of the operational amplifier. Among these applications are integrators, signal generators, function generators, and filters. Second semester includes assembly of a group of circuits and discrete components to form complete electronic systems, radio frequency applications, and a sophisticated student project.


271-272 Digital Electronics (3 credits). Binary concepts, basic logics, boolean algebra, counters, adders, basic computer circuits, second semester, advanced computer concepts and analytical troubleshooting of digital devices. Prerequisite: ET 161. 3 clock hours per week.

282 Digital Systems Design (3 credits). Concepts of boolean algebra, logic components; combinational and sequential circuit analysis and synthesis; number systems. Spring semester only. Prerequisite: ET 271 and consent of instructor. 3 clock hours per week. Optional course.

WASTEWATER TECHNOLOGY 11 Month Program

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

Wastewater Technology

101 Wastewater Lab I (10 credits). Consists of trips to the various types of treatment plant facilities as an introduction to the many varied processes within the industry. Upon completion of this course, students visit plants to the plants will be made on just that unit. Mechanically related lab along with the necessary sanitary chemistry lab will be performed. Twenty clock hours per week.

102 Wastewater Lab II (10 credits). Assign students to a local wastewater facility for one to two days per week will consist of hands-on and theory-day operation of a wastewater facility. Continuation of the chemistry and mechanical labs to include a major individual project to be approved prior to starting by instructor. An aquatic field study of stream flow, stream chemistry, watershed identification, weir installation and aquatic identification. Twenty clock hours per week.

105 In Plant Practicum (8 credits). Supervised experience in area wastewater facilities. Students gain experience in all phases of wastewater treatment in a variety of facilities and with several processes.

151 Wastewater Treatment Plant Operations I (5 credits). Introduction to Wastewater Treatment Plant Operations, including collection systems, pre-treatment primary sedimentation, aerobic and anaerobic digester operations. Related math, communication skills and science. Ten clock hours per week.

152 Wastewater Treatment Plant Operations II (5 credits). Secondary treatment processes including trickling filters, activated biological filter with greater emphasis on operation and control, process control, process plant interaction, report writing, budget preparation and finance and related first aid and safety. Ten clock hours per week.


DEPARTMENT OF MECHANICAL TECHNOLOGIES

Department Head: Max Lamborn; Auto Body: B. Curtis; Automotive Mechanics: Campbell, King, Mikesei; Heavy Duty Mechanics: Brownfield, Tillman; Parts Counterman: Lamborn; Small Engine Repair: Schroeder.

AUTO BODY 11 Month Program

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

Subject

Course No. and Title                  Fall  | Spring  | Summer
AB 121-122-123 Auto Body Lab         10   | 10      | 7
AB 141-142-143 Auto Body Theory.     5    | 5       | 5
AB 262 Occupational Relationships.   2    | 2       | 2

COURSES

AB AUTO BODY

121-122-123 Auto Body Laboratory (10-10-10 credits). The purpose of these courses is to develop and give practice in the skills needed by an auto body repairman. Subjects covered include the following: orientation, safety rules, shop house-keeping, oxy-acetylene welding, painting fundamentals, metal working and shrinking, plastic and lead body filling, advanced painting processes, frame alignment, glass and panel replacement. Twenty-five hours laboratory per week.

141-142-143 Auto Body Theory (7-5-5 credits). This course correlates with the auto body laboratory course. The theory of auto body repair and painting is covered. Mathematics and science necessary for and related to the trade are taught. Ten hours lecture and one hour laboratory per week.


AUTOMOTIVE MECHANICS

11 Month Program

The Automotive Mechanics program consists of 11 months of instruction. Specialty areas within the program may be taken after testing and approval by instructor.

COURSES

AM 100 Basic Automotive Mechanics                                8
AM 101 Electrical Systems and Fuel Systems                       6
AM 102 Engines, Air Conditioning, and Steering                   8
AM 103 Power Trains, Automatic Transmissions and Brakes         8
AM 104 Advanced Auto Mechanics                                   8
AM 262 Occupational Relations                                     2

COURSES

BASIC AUTOMOTIVE MECHANICS

AM 100 Basic Automotive Mechanics                                8
AM 101 Electrical Systems and Fuel Systems                       6
AM 102 Engines, Air Conditioning, and Steering                   8
AM 103 Power Trains, Automatic Transmissions and Brakes         8
AM 104 Advanced Auto Mechanics                                   8
AM 262 Occupational Relations                                     2
progress to Intermediate Auto Mechanics. Beginning students may enter directly into Intermediate Auto Mechanics by passing the AM 100 challenge examination and being recommended by the Program Head. Course consists of approximately 20 hours per week theory and 15 hours laboratory work.

INTERMEDIATE AUTOMOTIVE MECHANICS

In Intermediate Auto Mechanics students learn construction and repair procedures for automobile components using live cars and mock ups. Emphasis is placed on using tools and test instruments properly. Completion of all classroom and lab assignments are required before progressing to Advanced Auto Mechanics. Basic Auto Mechanics is a prerequisite to Intermediate Auto Mechanics.

AM 101 Electrical Systems and Fuel Systems (6 credits). Theory and construction of electrical components and fuel components used on modern cars. Diagnosis and repair using latest equipment is stressed. Course also stresses industry accepted procedures for tune-up work. Approximately 10 hours lecture and 25 hours laboratory per week.

AM 102 Engines, Air Conditioning, and Steering (8 credits). This course covers engine repair procedures on live engines and engine components. It presents theory and service procedures for automotive air conditioning. Also covered are front suspension repair and alignment. Approximately 10 hours lecture and 25 hours laboratory per week.

AM 103 Power Trains, Automatic Transmissions and Brakes (6 credits). Includes construction and repair of clutches, standard transmissions, propeller shafts, differentials and related equipment. Also included is the theory of operation of popular automatic transmissions and repair, and testing of automatic transmissions and repair of both disc and drum brakes. Approximately 10 hours lecture and 25 hours laboratory per week.


ADVANCED AUTOMOTIVE MECHANICS

AM 104 Advanced Auto Mechanics (8 credits). Students diagnose and repair autos under actual shop working conditions. Live problems are encountered in autos provided by faculty, staff and others. Students encounter the problems of making repair orders, customer relations, service sales, work routing, and shop management. Students may designate an area of special interest and be guided to a specialty. After completing course objectives a student may finish the requirements for graduation by employment in an approved shop serving the automotive trade with his/her instructor's permission. Graduation will then be based on that student's job performance.

HEAVY DUTY MECHANICS—DISEL

11 Month Program

This program is designed to prepare students for employment as heavy duty mechanics in the trucking industry. Instruction will cover basics in design and fundamentals of operation of diesel and heavy duty gasoline engines as well as the other component parts of the truck. Instruction will be on mock-ups and live work in the shop.

Subject | Course No. and Title | Fall | Spring | Summer
---|---|---|---|---
DM 101-102-103 Diesel Lab | 10 | 10 | 10
DM 151-152-153 Diesel Theory | 5 | 5 | 5
DM 262 Occupational Relationships | 2 | 2 | 2

COURSES

DM HEAVY DUTY MECHANICS—DISEL

101-102-103 Diesel Laboratory (10-10-10 credits). This course provides the laboratory application of principles covered in the theory class. Basic instruction will be on mock-ups, general theory, math and measuring instruments, and shop units but most experience will be in making actual repairs to live units.
151-152-153 Diesel Theory (5-5-5 credits). A study of the design, construction, maintenance and repair of trucks and diesel and heavy duty gasoline engines. Shop safety, care and use of tools, basic welding, internal combustion engines, transmissions and power trains, cooling systems, fuel systems, electrical systems, suspension and hydraulic and air brakes will be studied.

PARTS COUNTERMAN—Courses

9 Month Program

The Counterman Program is designed to familiarize the student with all phases of the Automotive parts business. A study of index systems, types of invoices, customer relations, refunding, refunding procedures and warranty adjustments will be covered. Emphasis and training on the use of catalogs, price sheets, and other related forms used in the parts industry are considered.

DEPARTMENT OF SERVICE OCCUPATIONS

Department Head: Joan Lingenfelter; Child Care: Corell, Lingenfelter, Gourley; Food Service: Hoff, Brown, Schaeffer; Horticulture: Griffith, Oyler; Mid-Management: Knowlton, Lane, Scudder; Office Occupations: Metzger, Trumbo, McDonough.
CHILD CARE STUDIES (Supervisor)
This curriculum is planned for people interested in working as a
supervisor in private day care centers, play grounds, camps,
nurseries, kindergartens, and child development centers.

DAY CARE SUPERVISOR (18 Month Program)
The graduate will assist with or operate a day care center which
provides for physical care, emotional support and social develop-
ment in children in groups.

This two year course will provide students with the opportunity to
direct children's play, provide food, supervise workers, and manage
resources in a nursery school setting. Completion of the program
defined as Child Care Assistant is a prerequisite to the supervisor
level program.

DAY CARE ASSISTANT:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>SEM.</th>
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<tbody>
<tr>
<td>CC-101 Introduction to Child Development</td>
<td>3</td>
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<tr>
<td>CC-151 Introduction to Child Development</td>
<td>3</td>
<td>-</td>
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<tr>
<td>CC-111 Communication Skills</td>
<td>3</td>
<td>-</td>
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<tr>
<td>CC-141 Health and Care of the Young Child</td>
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<tr>
<td>CC-171-172 Curriculum of the Young Child</td>
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<tr>
<td>CC-181-182 Child Care Laboratory</td>
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<td>3</td>
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<tr>
<td>CC-125-126 Contracted Field Experiences in</td>
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<tr>
<td>Early Childhood Programs</td>
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<tr>
<td>CC-135-136 Planning and Evaluation of</td>
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<td>Laboratory Exper.</td>
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DAY CARE TEACHER/SUPERVISOR:

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>CC-251-254 Advanced Child Care Management</td>
<td>3</td>
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<tr>
<td>CC-231-232 Child Care Center</td>
<td>3</td>
<td>-</td>
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<tr>
<td>CC-252 Family and Community Involvement</td>
<td>3</td>
<td>-</td>
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<td>with Children</td>
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<tr>
<td>CC-201 Occupational Relationships</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>CC-241-242 Feeding Children</td>
<td>3</td>
<td>3</td>
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<tr>
<td>CC-201-202 Child Care Center</td>
<td>3</td>
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<tr>
<td>Supervision</td>
<td>3</td>
<td>3</td>
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<tr>
<td>CC-225-226 Contracted Practicum in Early</td>
<td>2</td>
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<tr>
<td>Childhood Supervision</td>
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<tr>
<td>CC-235-236 Planning and Evaluations of Child</td>
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<tr>
<td>Care Center supervision</td>
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17  17

CC CHILD CARE

101 Introduction to Child Development (3 credits). A beginning study of child growth and
development, the individual needs of children, and an understanding of the methods of
guidance and discipline for preschool children.

111 Communication Skills (3 credits). To manage symbols and discover meaning, candidly,
directly, and exactly is the performance objective of Communication Skills. As trainee,
worker, citizen and human being, regardless of preparation and background, each student
is provided opportunity through individual and group projects to identify and resolve
communication issues relevant to his own need and career. This is a course designed to max-
imize personal involvement.

125-126 Contracted Field Experience in Early Childhood Programs (1-1 credits). Individual
contract arrangement involving student, instructor and cooperating community agency to
gain practical experience in off-campus settings. The student will visit, observe, and par-
ticipate in community child care settings.

135-136 Planning and Evaluation of Laboratory Experience (2-2 credits). Laboratory lecture and
discussion to include lab observation and records as a basis for developing curriculum and
guiding child behaviors, methods of curriculum planning and evaluation, activity plans,
classroom objectives, and staff performance and relations.

141 Health and Care of the Young Child (3 credits). Safety practices in child care centers,
infants, toddlers, nutrition, and general health education necessary for working with children
will be stressed as will the care and feeding of sick children as applied to child care centers with
special emphasis on identifying symptoms, treatment and prevention of childhood diseases.
The teacher's role with normal and abnormal behaviors as a family worker is working will be
covered. Required in the course of study will be the Red Cross multiple media first-aid
emergency training in compliance with state licensing regulations. A Tuberculosis test is also
required.

151 Introduction to Child Development (3 credits). Studies of guidance and discipline will be
continued; along with some techniques of handling behavior problems in the nursery school;
teaching will be included.

171-172 Curriculum of the Young Child (3-3 credits). Introduction to the curricula media
suitable for preschool children. The course will include the theories of teaching young
children in the preschool environment; the need for a curriculum in nursery school; the im-
portance of children's play; and specific information and material in the following areas:

VOCATIONAL-TECHNICAL SCHOOL

181-182 Child Care Laboratory (3-3 credits). Observation and participation in the laboratory
preschool. Students in this course will participate directly with children assuming the role of
aide and as assistant teacher. The student will plan and carry out a variety of activities and
attend staff meetings. Students will become acquainted with the curriculum, classroom
arrangement, daily schedules, child guidance and responsibilities of the staff personnel.

201-202 Child Care Center Supervision (3-3 credits). Observation and participation in the
laboratory preschool. This course is designed to enable the student to gradually assume
responsibility for the total child care operation under the supervision and consultation of the
instructor. Students will assume the role of head teacher in a child care center planning the
curriculum, coordinating and supervising staff responsibilities, conducting staff meetings,
and planning daily and weekly schedules. Students will explore the use of various techniques
for observing and recording the behavior of young children in preparation for child care
evaluations and parent-teaching services.

225-226 Contracted Practicum in Early Childhood Programs (2-2 credits). By permission of
the instructor. A course designed to meet specific needs of the student as determined by both
the student and instructor. A practical analysis of children and the skills in community
child care settings. Individual contract arrangement involving student, instructor and
cooperating agency to gain practical experiences in off-campus settings.

231-232 Child Care Center Management (2-2 credits). This course is designed to give the
student a basic knowledge needed for the operation of a day care center as a business.
Business arithmetic, record-keeping (financial, operational, staff, etc.), purchasing of equip-
ment, materials and supplies, and employer-employee relationships will be stressed.
Bookkeeping practices for an actual day care center will be included.

236-236 Planning and Evaluation of Child Care Center Supervision (1-1 credits). Classroom
lecture and discussion to include management of child care programs, methods for super-
vising staff, child guidance techniques, curriculum and staff evaluations, methods of working
with parents, daily classroom management, and curriculum development to meet specific
needs of individual children.

241-242 Feeding Children (3-3 credits). The nutritional requirements of preschool children
will be emphasized. The course is designed to help the student plan, purchase, prepare and
serve nutritious snacks and meals to children in child care centers. Studies will include
diet plans for sick children, handling food allergies, and the development of positive mealtime
atitudes. Emphasis will also be placed on the economics of good nutrition for a child care
center.

251-252 Advanced Child Care (3-3 credits). History and background of child care in the
United States will be studied, and a study will be made of the types and kinds of child care
centers suitable for young children that are present in the Boise area. Also covered will be
the qualifications of the teacher and/or supervisor for day care centers. Second semester
students will emphasize infant day care, work with exceptional children, and the skills
needed for kindergarten aides. Some knowledge of kindergarten curriculum will also be
stressed.

252 Family and Community Involvement with Children (3 credits). The students will be
given a basic understanding of the history and dynamics of family interaction, as affected by
the rapid social and technological changes taking place today. Also studied will be the
social, economic and ethnic factors that affect the family's capacity to function. This will
include the basic concepts of family decision making, the setting of goals and determining
family and personal values. A study will be made of cultural life styles and emphasis will
be placed on the need for establishing effective relationships with parents and co-workers.

261 Occupational Relationships (2 credits). Techniques of obtaining employment and
relationships among workers and supervisors. Resolution of human relationship issues of
shop and office. One semester, credit course.

ENTRANCE REQUIREMENTS

Personal interest, interview, and aptitude testing.

DAY CARE ASSISTANT:

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<tr>
<td>CC-135-136 Planning and Evaluation of Child Care Center supervision</td>
<td>3</td>
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</tbody>
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1ST  2ND

CHILD CARE STUDIES (Assistant) 9 Month Program

This curriculum is planned for people interested in working with
children as an assistant in private, play grounds, camps, day care
centers, nurseries, kindergartens, and child development centers.

CHILD CARE ASSISTANT (9 Month Program)

The graduate will be able to function effectively under supervision
caring for children's normal, physical, emotional and social needs in
child care centers, children's homes, hospitals, nurseries, and in-
dustry. This 9 month course will provide study of child growth, ways
of working with children—infants, toddlers, and school age children
and laboratory experience in a nursery school setting.

ENTRANCE REQUIREMENTS

Personal interest, interview, and aptitude testing.

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1ST  2ND

141
FOOD SERVICE TECHNOLOGY PROGRAM

The Food Service Technology curriculum is designed to meet the needs of students to progress from one level of employment to another depending on the individual progress of the student. The approximate length of the program is eleven (11) months. The following options are available:

1. Dishwasher, Bus Person
2. Cook's Helper
3. Cook

The theory and laboratory instruction will instruct students in food preparation and techniques which will develop an understanding of the basic principles of cookery; skill and efficiency in the preparation of foods; an appreciation of high standards of production; efficient use of time and attractive, sanitary service of foods; an appreciation for the care and safe use of utensils and equipment; harmonies and cooperative working habits; and to introduce the student to the use of large quantity equipment and to develop an understanding of the basic principles of cookery and also to gain knowledge of foods and their uses.

COURSES

FT FOOD SERVICE TECHNOLOGY

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course No. and Title</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
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<tbody>
<tr>
<td></td>
<td>FT-103-104-105 Food Service Lab</td>
<td>10</td>
<td>10</td>
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<tr>
<td></td>
<td>FT-143-144-145 Food Service Theory</td>
<td>5</td>
<td>5</td>
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<tr>
<td>HO 262</td>
<td>Occupational Relationships</td>
<td>2</td>
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</tbody>
</table>


HORTICULTURE SERVICE TECHNICIAN—CURRICULUM

(Landscape Construction and Maintenance)

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

FRESHMAN YEAR:

<table>
<thead>
<tr>
<th>1ST SEM.</th>
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<tbody>
<tr>
<td>HO 101-102 Horticulture Laboratory</td>
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<tr>
<td>HO 111-112 Communication Skills</td>
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<tr>
<td>HO 131-132 Related Basic Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>HO 141-142 Related Basic Science</td>
<td>2</td>
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<tr>
<td>HO 151-152 Horticulture Theory</td>
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SOPHOMORE YEAR:

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<th>1ST SEM.</th>
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<tbody>
<tr>
<td>HO 201-202 Horticulture Laboratory</td>
<td>5</td>
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<tr>
<td>HO 241-242 Related Science</td>
<td>2</td>
</tr>
<tr>
<td>HO 251-252 Horticulture Theory</td>
<td>5</td>
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</table>

COURSES

HO 262 Occupational Relationships | 2 |
HO 271 Individual Project | 3 |
MM 213 Credits and Collections | 2 |
MM 101 Salesmanship | 3 |
| | 17 |

FASHION MERCHANDISING—MID-MANAGEMENT

<table>
<thead>
<tr>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
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<tbody>
<tr>
<td>English Composition</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>Salesmanship</td>
<td>3</td>
</tr>
<tr>
<td>Clothing</td>
<td>2</td>
</tr>
<tr>
<td>Business Math/Machines</td>
<td>3</td>
</tr>
<tr>
<td>Clothing Selection</td>
<td>3</td>
</tr>
<tr>
<td>Textiles</td>
<td>3</td>
</tr>
<tr>
<td>Elements of Management</td>
<td>3</td>
</tr>
<tr>
<td>Intro. Fin. Accting</td>
<td>3</td>
</tr>
<tr>
<td>Mid-Management Work Experience</td>
<td>2</td>
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<td>Elective</td>
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MM 271 Child Care Studies (Assistant)

Child Care Studies (Assistant) courses are described under (supervisor) Child Care Studies.
SOPHOMORE YEAR:

<table>
<thead>
<tr>
<th>Course</th>
<th>1ST SEM.</th>
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<tbody>
<tr>
<td>Introduction to Marketing</td>
<td>3</td>
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<tr>
<td>Fashion Analysis and Design</td>
<td>2</td>
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<tr>
<td>Professional Speech Communication</td>
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</tr>
<tr>
<td>Retail Buying</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Mid-Management Work Experience</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Principles of Retailing</td>
<td>-</td>
<td>3</td>
</tr>
<tr>
<td>Visual Merchandising</td>
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<td>3</td>
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<td>Supervision of Personnel</td>
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MARKETING—MID-MANAGEMENT

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<td>Salesmanship</td>
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<tr>
<td>Intro. Fin. Accounting</td>
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<td>3</td>
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<tr>
<td>Merchandise Analysis</td>
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<td>Mid-Management Work Experience</td>
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<tr>
<td>Elements of Management</td>
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<td><strong>Total</strong></td>
<td>16</td>
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PRE- VOCATIONAL TRAINING

Pre-vocational education for vocational students or adults who have not completed high school is offered through the Vocational Technical School. The courses include adult basic, education, preparation for the high school equivalency certificate, adult guided studies, and approved high school courses in American Government, Mathematics, English, Social Studies and Natural Science. Classes are determined according to individual needs of the students. Classes are approved by the State of Idaho and for veterans qualifying under Chapter 34, Title 38, U.S.C. (Var 14253 A2).

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

APPRENTICESHIP AND TRADE EXTENSION

Through cooperative arrangements with the State Board for Vocational Education, Boise State University Vocational Technical School sponsors a wide range of trade extension training for beginning apprentice and journeyman workers. Such courses are designed to meet the specific needs of industry, labor, agriculture, and government. Classes usually meet in the evening. Flexibility of scheduling, content, place of meeting is maintained in order to meet the growing educational needs of the community. Typically, though not invariably, such courses provide related technical training for those workers receiving on-the-job instruction in such vocations as Sheetmetal, Carpentry, Plumbing, Welding, Electricity, Electronics, Typing, Grocery Checking, Automotive, Nursing and Farming.

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

ADULT BASIC EDUCATION—No Credit

This program offers classes in basic arithmetic, reading, English and speaking skills for people who are performing below a twelfth grade academic level. Preparation for United States citizenship, beginning reading for adults, and English as a second language for non-English speaking people are offered through the Adult Education Program.

HIGH SCHOOL EQUIVALENCY (GED PREPARATION)—No Credit

The High School Equivalency Program is a course designed for people who are performing below a twelfth grade academic level. This program is designed to help people prepare for their high school Equivalency Test (GED).
BOISE STATE FULL-TIME FACULTY

January, 1979
(The date in parenthesis is the year of first appointment)

A

LOUISE ACKLEY, Assistant Professor of English (1969)
A.B., Northwest Nazarene College; M.A., University of Washington.

H. DUANE AKROYD, Assistant Professor; Director of Radiologic
Technology (1969)
B.S., Medical College of Georgia; M.S., State University of New
York at Buffalo.

JOHN W. ALLEN, Associate Professor of Physics (1971)
B.A., Willamette University; M.A., Ph.D., Harvard University.

ROBERT L. ALLEN, Instructor in Industrial Plant Maintenance (1976)
Certificate, Boise State University.

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

RUDY N. ALONZO, Instructor in Heavy Duty Mechanics (1976)

ROBERT M. ANDERSON, Associate Professor of Mathematics
B.S., Utah State University; Ph.D., Michigan State University.

JAMES K. APPLLEGATE, Associate Professor of Geophysics; Department Head, Department of Geology and
Geophysics (1970)
Geophysical Engineer, M.S., Ph.D., Colorado School of Mines.

GARY D. ARAMBARRI, Departmental Head, Heavy
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Shop Ironworker Apprenticeship, Gate City Steel; Shop
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The following changes to the Boise State University Bulletin, 1979-80 Catalog Issue, Vol. XLVII, March 15, 1979, No. 1, are effective with the distribution of this Addendum.

Page 5 - Academic Calendar 1979-80

Change "Last day to drop/add classes in first 8-week block" from October 12, Friday to September 28, Friday.

Change "Last day to drop/add for second 8-week block" from November 16, Friday, to November 21, Wednesday.

Change "Mid semester grades submitted", "Notification of incompletes from previous semester...Last day to file application with department for final Masters written exam" from October 26, Friday, to October 19, Friday.

Page 9 - 2nd footnote after "Certificate of Admission" change to read:

*** Credit from non-accredited institutions will be accepted on the basis of the practice as reported in Transfer Credit Practices of Selected Educational Institutions by the American Association of Collegiate Registrars and Admissions Officers. Specifically, students requesting acceptance of such credit will furnish the Admissions Office of Boise State University complete official transcripts and catalog course descriptions. After earning not less than 15 semester hours credit from BSU with not less than 2.00 cumulative GPA, the student may petition the appropriate Department Chairman for acceptance of all such credit. Credit denied on the basis of such practice may be sought by examination.

Page 11 - Tuition and Fee Schedule - adjust as follows:

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<th>Non-Resident</th>
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<td>$750 per Semester</td>
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<td>Full-Time - Inst Fees</td>
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<tr>
<td>Part-Time Fee</td>
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<td>Summer Fee</td>
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<tr>
<td>Audit Fee</td>
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<td>Full-Time - Tuition</td>
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<tr>
<td>Audit Fee</td>
<td>27.50/Credit</td>
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**Foreign Students**

Full-Time - add $50 per semester
Other fees, charges and related policies in the catalog remain unchanged.

Page 18 - "C. AUDIT VS. CREDIT REGISTRATION" change first paragraph to read:

A student may enroll if space is available in a course without credit or a grade as an AUDITOR. Audit indicates that a student was allowed a place in the class, but may or may not have participated in class activities. Under certain exceptional circumstances, faculty may initiate withdrawal procedures. See "Complete Withdrawal" policy in the BSU Bulletin.

Page 18 - "F. GRADING SYSTEM" - replace the last 3 paragraphs of this section with the following:

Course Repetition - GPA Relationship

Under certain conditions a student may repeat a course in which he has received a grade of "F" or "D".

1. Independent studies, internships, and student teaching may be taken only once; they may not be repeated. Otherwise, a student who received a grade of "F" or "D" in a given course may elect to repeat that course to raise the grade, provided that course is still offered.

2. Courses in which a student receives a grade of "F" or "D" may be repeated only once.

3. Degree credit for courses so repeated will be granted only once, but both grades shall be permanently recorded.

4. In computing the GPA of a student with repeat courses, only the 2nd grade and quality points shall be used.

Page 25 - under OTHER DEGREES

add under Associate of Applied Science - Horticulture Service Technician

delete Horticulture Service Technician from Diploma listing.

Page 26 - Course description for 496 - Independent Study change 2nd sentence to read:

May be taken for a maximum of 9 credits; 6 credits in any one academic year. (change to avoid confusion with "Course Repetition - GPA Relationship" policy by removing word "repeat.")

Page 37 - after Course Offerings AR ART add the following sentence to the paragraph before lower division courses:

Several of the following course descriptions indicate that the course may be "repeated" for credit. This is not to be confused with the policy for repeating to raise a grade of "F" or "D". For the courses so indicated, students may enroll again and receive additional credit.

Page 39 - Add to Associate Professors in the Department of Biology - Wyllie.
Page 41 - add new BT BOTANY Lower Division course:

115 Mushrooms of Idaho (2 credits). A survey course of the fleshy fungi with emphasis on collecting and identifying species of Idaho mushrooms. Included will be discussions of poisonous and edible species and the economical and ecological roles played by fungi. Weekend field trips arranged. One hour of lecture and one hour of scheduled laboratory per week. Additional laboratories arranged. Fall semester.

Change Z ZOOLOGY Lower Division course 130 to read:

130 General Zoology (5 credits). The fundamentals of animal structure, physiology, development, heredity, evolution, adaptations, and life histories. Three hours of lecture and two three-hour laboratory periods per week. Each semester.

Under Chemistry Major requirements - change Analytical Chemistry to Quantitative Analysis.

Page 43 - change C CHEMISTRY Upper Division course 401-402G to read:

401G Advanced Inorganic Chemistry (3 credits). Quantum mechanical overview of atomic and molecular structure, bonding in ionic, covalent, and complex ions, nonaqueous solutions, and selected properties of elements of the periodic table and inorganic compounds. Prerequisite: Physical Chemistry, C 322, or consent of the instructor. Each Semester.

Page 46 - Under Requirements for English Majors, II. 2. b. area requirements, add E 351; II. 2. c., change E 260 to E 360.

Page 48 - add new E ENGLISH course:

481/581 Literature for Use in Junior and Senior High Schools (3 credits). A literary content course designed for prospective or experienced teachers of secondary school English. Primary emphasis is placed on critical reading of literature ordinarily used with adolescents in secondary school. Secondary emphasis is placed on methods of critical analysis appropriate for secondary students. All genres will be discussed. Both classical and popular authors will be included. Prerequisites: E 102, completion of two literature courses. Fall Semester.

Add new course under LI LINGUISTICS:

407 Applied Linguistics in Teaching English as a Second Language (3 credits). This course is designed to help teachers in the bilingual classroom or teachers of student of limited proficiency in speaking English to understand and to deal with the process of learning English. It will focus on identifying, defining, and remedying the specific problems that confront learners of a second language. Prerequisite: LI 305. Spring semester, alternate years.
After faculty add:

I. Liberal Arts Option

Under German and Spanish Majors delete item 4 and renumber paragraphs.

Add the following new section:

II. Secondary Education Option

A. FRENCH MINOR ENDORSEMENT

Students wishing a minor endorsement in French must have completed the following:

1. The candidate must complete the Education requirements for Idaho State Certification.
2. Demonstrate competency equivalent to the completion of Elementary (F 101-102) and Intermediate (F 201-202) French—16 credit hours, either by taking the courses or by examination, prior to beginning the option.
3. The minor endorsement in French requires 21 Upper Division credit hours plus any deficiencies under the paragraph above, namely:
   - F 303 and 304, French Composition and Conversation
   - F 376 and 377, French Culture and Civilization
   - Six (6) credit hours of French Literature courses
   - FL 412, Teaching Methodology in Foreign Languages
4. The candidate must demonstrate his/her level of language competency in French on a standardized examination during the last semester in the program.

B. GERMAN MAJOR ENDORSEMENT

1. Completion of general university requirements for the Bachelor of Arts degree as listed in the Bulletin.
2. The candidate must complete the Educational requirements for Idaho State Certification.
3. To begin the program for the BA in German, teaching option, the student must demonstrate competency equivalent to the completion of elementary (G 101-102) and intermediate (G 201-202) German—16 credit hours. Competency may be demonstrated by examination or by actually taking the courses.
4. 36 upper division credit hours are required for the BA, in this option, plus whatever deficiencies in competency must be met under the paragraph above. 30 upper division credit hours must be in German and 12 hours must be at the 400 level.
5. The candidate must successfully complete FL 412. G 410 is strongly recommended.
6. The program must be developed in consultation with the advisors in German, Education, and the Chairman of the Foreign Languages Department.
7. The candidate must demonstrate his/her level of language competency in German on a standardized examination during the last semester in the program.

8. We encourage the student to select from the following courses in fulfilling the requirement for 30 semester hours of German:

G 303 & 304, Advanced German Conversation & Composition
G 331, Introduction to German Literature and Literary Studies
G 376 & 377, German Culture & Civilization
G 425, Der Traum der Antike und die Traumwelt
G 435, Reaktion: Liberal und Konservativ
G 445, Die moderne Zeit beginnt
G 455, Als der Krieg zu Ende var...
G 475, Die deutschsprachige Welt von heute
G 498, Senior Seminar

C. GERMAN MINOR ENDORSEMENT

1. Educational requirements for Idaho State Certification
2. Demonstrate competency equivalent to the completion of Elementary (G 101-102) and Intermediate (G 201-202) German--16 credit hours, either by taking the courses or by examination, prior to beginning the option.
3. The minor endorsement in German requires 21 upper division credit hours plus any deficiencies under the paragraph above, namely:
   G 303 & 304, Advanced German Conversation & Composition
   G 376 & 377, German Culture and Civilization
   Six (6) credit hours of German Literature courses
   FL 412, Teaching Methodology in Foreign Languages
   (G 410 strongly recommended in addition)
4. The candidate must demonstrate his/her level of language competency in German on a standardized examination during the last semester in the program.

D. SPANISH MAJOR ENDORSEMENT

1. Completion of general university requirements for the Bachelor of Arts degree as listed in the Bulletin.
2. The candidate must complete the Educational requirements for Idaho State Certification.
3. To begin the program for the BA in Spanish, teaching option, the student must demonstrate competency equivalent to the completion of elementary (S 101-102) and intermediate (S 201-202) Spanish--16 credit hours. Competency may be demonstrated by examination or by actually taking the courses.
4. 36 upper division credit hours are required for the BA, in this option, plus whatever deficiencies in competency must be met under the paragraph above. 30 upper division credit hours must be in Spanish and 12 hours must be at the 400 level.
5. In this option, students must take S 410 and FL 412 which may be included in the total 36 upper division hours of the program.
6. The program must be developed in consultation with the advisors in Spanish, Education, and the Chairman of the Foreign Languages Department.
7. The candidate must demonstrate his/her level of language competency in Spanish on a standardized examination during the last semester in the program.
8. We encourage the student to select from the following courses in fulfilling the requirement for 30 semester hours of Spanish.
   S 303 & 304, Advanced Spanish Conversation & Composition
   S 331, Introduction to Hispanic Literatures & Literary Analysis
   S 376 & 377, Cultura y Civilizacion Espanola/Hispanoamericana
   S 435 & 437, Literatura Contemporanea Espanola/Hispanoamericana
   S 447, Literatura Hispanoamericana: Siglo 19
   S 455, Edad de Ora de la Literatura Espanola
   S 475, Eventos Contemporaneos de Gentes y Paises Hispanohablantes
   S 498, Senior Seminar

E. SPANISH MINOR ENDORSEMENT

1. Demonstrate competency equivalent to the completion of Elementary (S 101-102) and Intermediate (S 201-202) Spanish--16 credit hours, either by taking the courses or by examination, prior to beginning the option.

2. The minor endorsement in Spanish requires 23 upper division credit hours plus any deficiencies under the paragraph above, namely:
   S 303-304, Advanced Spanish Conversation and Composition
   S 376-377, Cultura y Civilizacion Espanola y Hispanoamericana
   Six (6) credit hours of any upper division Spanish literature courses
   S 410, Applied Spanish Linguistics for the Spanish Language Teacher
   FL 412, Teaching Methodology in Foreign Languages

3. The candidate must demonstrate his/her level of language competency in Spanish on a standardized examination during the last semester in the program.

Page 58 - under REQUIREMENTS FOR MATHEMATICS MAJOR:

after M 314 Foundations of Analysis (3), add:

M 340 Numerical Analysis (4)

Change the statement, "Three or more semester courses, including a sequence, at the 400 level (9-12) to read:

One of the following sequences ending at the 400 level:

I. M 441-442 Algebra
II. M 401-402 Analysis
III. M 431-432 Probability and Statistics
IV. M 321-322-421 Applied Mathematics
V. M 354-358-451 Computer Science

and a 400-level course (of 3 or more credits) additional to those in the sequence selected.
Page 59 - Add new course MATHEMATICS Lower Division:

122 A First Course in Programming (2 credits). An introductory course in programming techniques. Fundamental programming topics will include problem solving, formulas, input to and output from the computer, use of data files and tables, flowcharting, and the components of a typical computer. Various techniques for searching and sorting in large collections of data will be covered together with other computer applications in education, natural sciences, business and social science. Students will learn programming concepts using a conversational language operating in the environment of a small to medium-sized computer such as the BASIC language and the BSU Hewlett-Packard 3000 Computer. Prerequisite: None. Each semester.

Change MATHEMATICS course "345 Programming Languages" to read:

354 Programming Languages (4 credits).

Page 69 - under Basic Requirements for all Political Science majors:

Change PO 441/442 Western Political Theory . . . . 3 to read:

PO 441 or PO 442 strongly recommended for all students with a major in Political Science.

Page 77 - under CR CRIMINAL JUSTICE ADMINISTRATION courses add:

490 Field Practicum (6 credits). Students will work in selected criminal justice agencies under the joint supervision of CJA faculty and enforcement personnel. After training and orientation, the student will be assigned duties equivalent to those performed by full time personnel. A research project appropriate to the agency type and areas of responsibility is required of each student. Regular seminar meetings will be conducted to review progress of occupational and academic obligations. Required of all 4-year degree students who do not have one year of continuous, full time criminal justice experience. Students will arrange to devote the summer of their Junior year to this course. Prerequisite: 15 credits in criminal justice course work and Junior standing. Summer Session, but Fall or Spring semesters by special permission of the CJA director.

Page 82 - under "Bachelor Degree Programs" change 2nd paragraph to read:

All School of Business Baccalaureate degree candidates are required to complete the following lower division courses prior to enrolling in upper division courses in the School of Business:

Under "Bachelor Degree Programs" replace 3rd paragraph with:

All university students are cautioned that upper division standing is a prerequisite for enrollment in 300 and 400 level courses and that several of the lower division courses listed above are specific pre-requisites for certain upper division courses in the School of Business.

School of Business Baccalaureate Degree candidates are required to complete the following upper division courses prior to enrolling in GB 450, Business Policies, which is also a required core course:
MG 301 Principles of Management
MK 301 Basic Marketing Management
FI 303 Principles of Finance
MG 345 Principles of Production Management

* The one exception to this requirement is in the BA in Economics Program as described in the Bulletin.

Under ACCOUNTING MAJOR:

Freshman Year
Mathematics 105-106, add "or M 111 and M 204"

Junior Year
Income Tax AC 401 or 320, remove the 320

Senior Year
UD Econ Elective EC 301 or EC 305, remove EC 301 or EC 305
Add: **Prin of Production Management MG 345 . . . 3 (1st sem).
Change General Electives from 8 to 5 (1st sem).

Pages 82-83 - under INFORMATION SCIENCES MAJOR:

Freshman Year
Mathematics 105-106, add: "or M 111 and M 204"

Senior Year
Add: Prin of Production Management MG 345 . . . 3 (1st sem)
Change Electives* from 5 to 2 (1st sem).

* In the footnote, delete "DP 420 Systems Analysis and Design" from the suggested electives.

Page 83 - under BUSINESS EDUCATION MAJOR (Basic Business Option):

Freshman Year
Change Beginning Typing OA 105 to read:
Intermediate or Advanced Typing OA 107 or 209

Sophomore Year
Delete Intermediate Typewriting OA 107
Change Electives (from 2 of 3 areas) from 3 to 6. (1st sem)
Change 1st sem total from 17 to 18.

Junior Year
Add: Prin of Production Management MG 345 . . . 3 (2nd sem)
Change 2nd sem total from 15 to 18.

Senior Year
Change Electives from 4 to 3. (1st sem)
Change total from 16 to 15. (1st sem)
Page 83 - under BUSINESS EDUCATION MAJOR (Basic Business Option with Distributive Education emphasis)

Freshman Year
Delete Principles of Retailing MM 202 ... 3 (2nd sem)
Change totals from 16 to 15 (2nd sem)

Junior Year
Add Prin of Production Management MG 345 ... 3 (2nd sem)
Change Electives from 6 to 3 (2nd sem)

Senior Year (Page 84)
Change Technical Writing for Business OA 338 to Money and Banking EC 301 ... 3 (1st sem)

Page 84 - under BUSINESS EDUCATION MAJOR (Shorthand Option)

Junior Year
Change Prin of Managment MK 301 to MG 301
Change Principles of Finance FI 303 ... 3 from 2nd to 1st sem
Change Elective (from 2 of 3 areas) from 10 to 7 (1st sem)
Add Prin of Production Management ... 3 (2nd sem)

Senior Year
Change Electives ... 4 (1st sem) to read:
Electives (Area I, II, III) ... 3 (1st sem)
Change total to 15 (1st sem)

Page 85 - under ECONOMICS MAJOR Bachelor of Business Administration degree:

Junior Year
Change Non-Bus Electives (AREA I, II, III) 2nd semester from 6 to 3.
Add Principles of Production Management (MG 345) to 2nd semester (3 credits).

under FINANCE MAJOR

Freshman Year
Change General Elective ... 3 (2nd sem) to read:
Prin of Production Management MG 345 ... 3 (2nd sem)

Page 86 - after Senior Year of Finance major footnote ** to read:

** Finance Electives:
Intermediate and/or Managerial and Cost Accounting AC 207, 352, 351
International Economics EC 317
Real Estate Finance EC 370
Senior Seminar in Finance FI 498 - one required, second recommended
Public Finance, EC 310
-10-

Page 86 - under GENERAL BUSINESS MAJOR Bachelor of Business Administration Degree:

Freshman Year
Math (AREA III) M 105, M 106, add: or M 111 and M 204

Sophomore Year
Add Intro to Managerial Accounting AC 206 . . . 3 (2nd sem)
Delete Statistical Tech GB 208 . . . 3 (2nd sem)

Junior Year
Delete Cost & Managerial Accounting AC 351-352
Add Principles of Income Tax AC 401 . . . 3 (2nd sem)
Change General Electives (Area I, II, III) to 3 (1st sem)
Add Statistical Tech for Decis Making II GB 208 . . . 3 (2nd sem)

Senior Year
Replace Quant Analysis GB 366 with:
Principles of Production Management MG 345 . . . 3 (1st sem)
Change Inter Mkt Manag from MM 320 to MK 320

INDUSTRIAL BUSINESS MAJOR (Production Option)

Junior Year
Replace Intermediate Microeconomics EC 303 with:
Principles of Production Management MG 345 . . . 3 (2nd sem)

Senior Year
Change Intermediate Macroeconomics EC 305 to:
Intermediate Microeconomics EC 303 . . . 3 (2nd sem)
Change Elective from 3 to 4 (2nd sem) and totals from 15 to 16 (2nd sem)

Pages 86-87 - MANAGEMENT MAJOR BEHAVIORAL OPTION

Freshman Year
Mathematics (Area III) M 105-106 add or M 111 and M 204

Junior Year
Replace Quant Analysis GB 366 with Prin of Production Management
MG 345 . . . 3 (2nd sem)

Senior Year
Replace Social Psychology SO 431 with Quant Analysis GB 366

Page 87 - MANAGEMENT MAJOR - QUANTITATIVE OPTION

Freshman Year
Mathematics (Area III) M 105-106, add or M 111 and M 204

Sophomore Year
Add Intro to Managerial Accounting AC 206 . . . 3 (2nd sem)
Change General Electives (Area I, II, III) from 6 to 3 (2nd sem)
Junior Year
Delete Quant Analysis GB 366 . . . 3 (1st sem)
Add Prin of Production Management MG 345 . . . 3 (2nd sem)
Change Decisions Analysis MG 409 to 3 (2nd sem) only
Add General Elective (Area I, II, III) . . . 3 (1st sem)
Delete Managerial Accounting AC 352 . . . 3 (2nd sem)

Senior Year
Add Quantitative Analysis GB 366 . . . 3 (1st sem)
Change total for 1st sem from 15 to 18.

Page 87 - MANAGEMENT MAJOR - AVIATION OPTION

Freshman Year
Mathematics M 105-106, add or M 111 and M 204

Junior Year
Replace Quant Analysis GB 366 with Prin of Production Management MG 345 . . . 3 (2nd sem)

Page 88 - MANAGEMENT MAJOR - INDUSTRIAL RELATIONS OPTION

Freshman Year
Mathematics, M 105-106, add or M 111 and M 204

Senior Year
Replace Industrial Sociology SO 361 with Principles of Production Management MG 345 . . . 3 (1st sem)

Page 88 - REAL ESTATE MAJOR

Freshman Year
Mathematics M 105-106, add or M 111 and M 204

Senior Year
Add Principles of Production Management MG 345 . . . 3 (1st sem)
Delete Government and Business GB 441 . . . 3 (2nd sem)
Change Major Elective from 3 (1st sem) to 3 (2nd sem)

Page 89 - MARKETING MAJOR

Junior Year
Add Principles of Production Management MG 345 . . . 3 (2nd sem)
Delete 3 (2nd sem) from Electives

Page 89 - OFFICE ADMINISTRATION MAJOR

Junior Year
Add Principles of Production Management MG 345 . . . 3 (2nd sem)
Change electives (from 2 of 3 areas) for 2nd sem from 9 to 6

Page 90 - under Marketing-Mid Management
Freshman Year
change Fund of Speech-Comm. from OA 238 to read CM 111
Page 91 - under BE BUSINESS EDUCATION - Upper Division

Add new course:

411 Consumer Education in the Schools (3 credits). A course for students preparing to teach consumer related topics. The objective of the course is to introduce prospective teachers to teaching methodology appropriate to consumer education. Course objectives, curriculum organization in the schools, learning outcomes, teaching-learning strategies and evaluation strategies will be considered. Specific methods used in teaching consumer education topics. Learning materials and resources will be identified and reviewed. Prerequisite: Senior level or consent of instructor. Fall or Spring semester.

Page 93 - under MG MANAGEMENT - Upper Division - add new course:

345 Principles of Production Management (3 credits). Management of the entire production function, its life cycle and its inter-relationships with other business disciplines is emphasized. The course covers the analysis, design, planning and control of production processes. Specific topics include plant location, design and layout, scheduling, time and motion study, quality control, material acquisition, and systems theory. The application of quantitative techniques is considered. It is suggested that students desiring more quantitative aspects of production take GB 366 or other quantitative courses. Each semester. Prerequisites: Upper-division standing, GB 207 and MG 301.

Page 93 - under GB GENERAL BUSINESS - Upper Division, add prerequisite to GB 366 of MG 345

Page 93 - under MK MARKETING course 425 change prerequisites from MI 301 and MK 405 to read MK 320

Page 94 - under MM MARKETING - MID-MANAGEMENT, course 203, change semester offered from Fall to Spring.

Page 99 - under Center for Counseling, Guidance and Testing faculty change name Emeritus: from Brown to Bronson & move from Center for Counseling, Guidance, & Testing to Psychology Department

Page 104 - under CENTER FOR COUNSELING, GUIDANCE, AND TESTING, delete the sentence which reads, "The Center is especially designed for students with specific reading problems."

Page 110 - P PSYCHOLOGY - delete course 499 Systems Seminary

Page 111 - TE TEACHER EDUCATION course changes:

Add new course: 333 Educating Exceptional Secondary Students (1 credit). The course is designed to acquaint secondary teacher trainees with the various categories of exceptional students and their educational needs. Course emphasis will be directed at teaching models utilized at the secondary level for classroom instruction of the exceptional student. Each semester.

Change 358 Corrective Reading in the Elementary School to read:
358 Corrective Reading (3 credits). A study of reading difficulties of elementary or secondary school pupils with emphasis upon diagnosis, materials
and methods of teaching. The student will tutor an elementary or secondary school pupil assigned from the Reading Education Center for approximately 20 sessions. Opportunity is offered to consider learning disabilities related to ethnic and cultural differences. Prerequisite: Elementary Education majors, TE 205; Secondary Education majors, upper division standing. Either semester.

Change course title from 464 Teaching and Organizational Strategies in Early Childhood Education (ages 0 through 8) to read:

464 Individualizing Instruction in Early Childhood Education.

Page 116 - upper left column, change Respiratory Therapy faculty to read:

Director-Assistant Professor: James R. Jensen, Ph. D. Clinical Coordinator-Instructor: Lonny Ashworth. Medical Director: David K. Merrick, M. D. Adjunctive Faculty: Espeland, Gable, Gossi, Hammarsten, Hopper, Ricks.

Page 124 - At the end of the Nursing section, following the paragraph "The Curriculum", add the following:

Effective with the fall semester of 1979, students entering the program will take a revised curriculum. Those who qualified for senior status in nursing by Fall 1979 will take a transitional curriculum for their senior year. Sample programs for both groups of students are presented here, together with course numbers and course descriptions.

Sample Program--Full-Time Student
(To be taken by student entering the program for the first time in Fall, 1979)

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N 302</td>
<td>Professional Nursing I</td>
<td>2</td>
</tr>
<tr>
<td>N 308</td>
<td>Professional Interactions</td>
<td>2</td>
</tr>
<tr>
<td>N 309</td>
<td>Practicum: Professional Interactions</td>
<td>1</td>
</tr>
<tr>
<td>N 360</td>
<td>Health-Illness I</td>
<td>2</td>
</tr>
<tr>
<td>N 361</td>
<td>Practicum: Health-Illness I</td>
<td>3</td>
</tr>
<tr>
<td>H 300</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>SO240</td>
<td>Sociology of the Family</td>
<td>3</td>
</tr>
<tr>
<td>N 328</td>
<td>Family and Group Interactions</td>
<td>-</td>
</tr>
<tr>
<td>N 329</td>
<td>Practicum: Family &amp; Group Interactions</td>
<td>-</td>
</tr>
<tr>
<td>N 362</td>
<td>Health-Illness II</td>
<td>-</td>
</tr>
<tr>
<td>N 363</td>
<td>Practicum: Health-Illness II</td>
<td>-</td>
</tr>
<tr>
<td>N 390</td>
<td>Nursing Research</td>
<td>-</td>
</tr>
<tr>
<td>N 391</td>
<td>Practicum: Nursing Research</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Principles of Pharmacotherapeutics</td>
<td>-</td>
</tr>
<tr>
<td>Elective (Area I - Humanities)</td>
<td>-</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>17</td>
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</table>
### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N 408</td>
<td>Families and Groups Under Stress</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>N 409</td>
<td>Practicum: Families &amp; Groups Under Stress</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>N 410</td>
<td>Nursing in Community Health</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>N 411</td>
<td>Practicum: Nursing in Community Health</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N 430</td>
<td>Health-Illness III</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>N 431</td>
<td>Practicum: Health-Illness III</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective: Area I--Humanities</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective: Area III</td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>N 402</td>
<td>Professional Nursing II</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>N 432</td>
<td>Health-Illness IV (1st 8 weeks)</td>
<td></td>
<td>1</td>
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<tr>
<td>N 433</td>
<td>Practicum: Health-Illness IV (1st 8 wk)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>N 435</td>
<td>Practicum: Health-Illness V (2nd 8 wks)</td>
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<td>3</td>
</tr>
<tr>
<td>Elective: Area II/III</td>
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<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective: Area II (Not psychology or sociology)</td>
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<td></td>
<td>3</td>
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<td></td>
<td>Total</td>
<td>17</td>
<td>13</td>
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</tbody>
</table>

### Sample Program--Part-Time Student

(To be taken by students entering the program for the first time in the Fall, 1979.)

### FIRST YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N 302</td>
<td>Professional Nursing I</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>H 300</td>
<td>Pathophysiology</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>S0240</td>
<td>Sociology of the Family</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>N 390</td>
<td>Nursing Research</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>N 391</td>
<td>Practicum: Nursing Research</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Principles of Pharmacotherapeutics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective: Area I--Humanities</td>
<td></td>
<td></td>
<td>3</td>
</tr>
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<td></td>
<td>Total</td>
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### SECOND YEAR

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<th>Course Code</th>
<th>Course Title</th>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
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</thead>
<tbody>
<tr>
<td>N 308</td>
<td>Professional Interactions</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>N 309</td>
<td>Practicum: Professional Interactions</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>N 360</td>
<td>Health-Illness I</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>N 361</td>
<td>Practicum: Health-Illness I</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>N 328</td>
<td>Family and Group Interactions</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>N 329</td>
<td>Practicum: Family &amp; Group Interactions</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>N 362</td>
<td>Health-Illness II</td>
<td></td>
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<tr>
<td>N 363</td>
<td>Practicum: Health-Illness II</td>
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<tr>
<td>Elective: Area III</td>
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<td>Total</td>
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### THIRD YEAR

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<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
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<tbody>
<tr>
<td>N 408</td>
<td>Families and Groups Under Stress</td>
<td>2</td>
<td></td>
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<tr>
<td>N 409</td>
<td>Practicum: Families &amp; Groups Under Stress</td>
<td></td>
<td>1</td>
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<tr>
<td>N 410</td>
<td>Nursing in Community Health</td>
<td></td>
<td>2</td>
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<tr>
<td>N 411</td>
<td>Practicum: Nursing in Community Health</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Elective: Area II/III</td>
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</tbody>
</table>
Elective: Area II (not psychology or sociology) 3
Independent Study (if desired) 7

FOURTH YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>N 430</td>
<td>Health-Illness III</td>
<td>2</td>
</tr>
<tr>
<td>N 431</td>
<td>Practicum: Health-Illness III</td>
<td>3</td>
</tr>
<tr>
<td>Elective: Area I/II/III</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>N 402</td>
<td>Professional Nursing II</td>
<td>2</td>
</tr>
<tr>
<td>N 432</td>
<td>Health-Illness IV (1st 8 wks)</td>
<td>1</td>
</tr>
<tr>
<td>N 433</td>
<td>Practicum: Health-Illness IV (1st 8 wks)</td>
<td>1</td>
</tr>
<tr>
<td>N 435</td>
<td>Practicum: Health-Illness V (2nd 8 wks)</td>
<td>3</td>
</tr>
</tbody>
</table>

Sample Program--Transitional Student*
(To be taken by students who are eligible for senior status in nursing by Fall, 1979.)

SENIOR YEAR (1979-1980)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>N 404</td>
<td>Overview of Professional Nursing</td>
<td>1</td>
</tr>
<tr>
<td>N 408</td>
<td>Families &amp; Groups Under Stress</td>
<td>2</td>
</tr>
<tr>
<td>N 409</td>
<td>Practicum: Families &amp; Groups Under Stress</td>
<td>1</td>
</tr>
<tr>
<td>N 415</td>
<td>Practicum: Mental Health Nursing</td>
<td>1</td>
</tr>
<tr>
<td>N 406</td>
<td>Overview of Nursing in Community Health</td>
<td>1</td>
</tr>
<tr>
<td>N 407</td>
<td>Practicum: Overview of Nursing in Community Health</td>
<td>1</td>
</tr>
<tr>
<td>N 448</td>
<td>Overview of Health-Illness Continuum</td>
<td>2</td>
</tr>
<tr>
<td>N 449</td>
<td>Practicum: Overview of Health-Illness Continuum</td>
<td>2</td>
</tr>
<tr>
<td>N 496</td>
<td>Independent Study (to augment N 448)</td>
<td>1</td>
</tr>
<tr>
<td>N 402</td>
<td>Professional Nursing II</td>
<td>2</td>
</tr>
<tr>
<td>N 432</td>
<td>Health-Illness IV (1st 8 wks)</td>
<td>1</td>
</tr>
<tr>
<td>N 433</td>
<td>Practicum: Health-Illness IV (1st 8 wks)</td>
<td>1</td>
</tr>
<tr>
<td>N 435</td>
<td>Practicum: Health-Illness V (2nd 8 wks)</td>
<td>3</td>
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<tr>
<td>Electives: as needed, either semester</td>
<td>12</td>
<td></td>
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</tbody>
</table>

*Students in this category will have completed the following courses prior to Fall 1979:

H 300 Pathophysiology, H 301 Principles of Pharmacotherapeutics, and H 305 Sensitization to Role Change
N 306-307 Professional Interactions, N 310-13 Community Health Nursing, N 316-17 Health Assessment, N 490 Overview of Nursing Research
MG 301 Principles of Management (or alternative course)
Two sets of courses are described in this section: 1) Courses in the revised curriculum which are to be taken by students entering the program for the first time in the fall of 1979, and 2) courses in the transitional curriculum, which are to be taken by students who qualified for senior status in nursing by the fall of 1979.

Courses in the Revised Curriculum
(To be taken by students entering the program for the first time in Fall, 1979.)

JUNIOR YEAR

302 Professional Nursing I (2 credits). Emphasis placed on historical perspectives in nursing as well as roles and characteristics of the professional nurse today. Student will begin to assess issues in nursing and to identify personal professional goals. Prerequisite: admission to baccalaureate nursing program. Fall semester.

308 Professional Interactions (2 credits). Application of theories and concepts designed to enhance communication ability essential for professional nursing practice. Assertive communication will be emphasized. First half of semester focuses on one-to-one communication; second half on group process. Prerequisite or concurrent enrollment in N 302. To be taken concurrently with N 309 and N 360-361. Fall semester.

N 309 Practicum: Professional Interactions (1 credit). Simulated practicum experience, involving role-playing to demonstrate communication behaviors. Video-taping will be used to enhance evaluation of self and peers. To be taken concurrently with N 308. Fall semester.

328 Family and Group Interactions (2 credits). Application of nursing process to individual and family systems, designed to promote optimal mental health. Assessment of individual/family will include developmental processes, sociocultural variables, role status-relationships and patterns of communication. Psychodynamic concepts related to health, stress, mind-body relationships and family theory will be considered as well as situational and maturational crises. Prerequisites: N 302, 308-309, 360-361. Prerequisite or concurrent enrollment in N 390-391. To be taken concurrently with N 329 and N 362-363. Spring semester.

329 Practicum: Family and Group Interactions (2 credits). To be taken concurrently with N 328. Spring semester.

360 Health-Illness I (2 credits). Promotes understanding of concepts of stress, adaptation and the health-illness continuum as applied to professional nursing. Focuses on developing overall perspectives of biopsychosocial adaptation by individuals throughout major phases of the life cycle. Emphasizes physiologic regulatory and information-processing mechanisms of the neuroendocrine system and assessment of the individual's adaptive potential. Prerequisite or concurrent enrollment in H 300 and N 302. To be taken concurrently with N 361 and N 308-309. Fall semester.
361 Practicum: Health-Illness I (2 credits). To be taken concurrently with N 360.

362 Health-Illness II (2 credits). Continues development of clinical judgement/nursing process skills through emphasis upon major biopsychosocial stresses and adaptive requirements of the developing individual, from pre-natal to adolescent periods. Selective maladaptive processes will be discussed, emphasizing the roles of family and/or significant others on the individual's adaptive potential. Prerequisites: N 302, 308-309, 360-361. Prerequisite or concurrent enrollment in N 390-391. To be taken concurrently with N 363 and N 328-329. Spring semester.

363 Practicum: Health-Illness II (2 credits). To be taken concurrently with N 362.

390 Nursing Research (2 credits). Following an introduction to basic research concepts, students will study the research process and selected approaches to health care research. Learnings will be utilized in reading and evaluating health care research for application to selected areas of professional practice. Prerequisite: N 302. To be taken concurrently with N 391. Spring semester.

391 Practicum: Nursing Research (1 credit). Simulated practice in selected research activities, defining researchable problems, processing data, and critiquing research reports. To be taken concurrently with N 390. Spring semester.

SENIOR YEAR

402 Professional Nursing II (2 credits). Emphasis placed on utilization of information gained through previous nursing courses to improve delivery of health care and advance the profession of nursing. Student will examine and refine own personal and professional commitments. National, state, and local legislation will be explored to provide students with broad perspective on health care issues. Prerequisites: N 408-409, 410-411 and 430-431. To be taken concurrently with N 432-433 and N 435. Spring semester.

408 Families and Groups Under Stress (2 credits). Application of nursing process in managing complex mental health needs of individuals/families/groups. Focus on acting as consumer advocate while working in collaboration with health team members. Prerequisites: Completion of 300-level nursing courses. To be taken concurrently with N 409 and 410-411. Fall semester.

409 Practicum: Families and Groups Under Stress (1 credit). Application of content from N 408 in community setting, providing experience in therapeutic management of families/groups under stress. Comprehensive health-illness appraisal will serve as basis for promoting optimal health. To be taken concurrently with N 408. Fall semester.

410 Nursing in Community Health (2 credits). Designed to utilize basic concepts of community health and community health nursing process as relevant to human ecology, epidemiology, community development and community health organization. Current community health problems and trends will be studied in relationship to the historical basis
of their development and to the community health nurse roles of family advocate, member of the health team, facilitator for change in community health services, and leadership in nursing. 

Prerequisite: Completion of 300-level nursing courses. To be taken concurrently with N 411 and N 408-409. Fall semester.

411 Practicum: Nursing in Community Health (2 credits). Application of content from N 410 to utilize community health nursing process in conjunction with community health organization process in a variety of settings to foster the health potential of families within a community unit. To be taken concurrently with N 410. Fall semester.

430 Health-Illness III (2 credits). Nursing care related to biopsychosocial responses of individuals/families to life-threatening disease processes and/or trauma. Nursing process will be utilized to assess factors which enhance or disrupt adaptive processes. Prerequisites: Completion of 300-level nursing courses. To be taken concurrently with N 431. Prerequisite or concurrent enrollment in N 408-409, 410-411. Fall semester.

431 Practicum: Health-Illness III (3 credits). To be taken concurrently with N 430. Fall semester.

432 Health-Illness IV (1 credit). Nursing care related to biopsychosocial responses of individuals, families to chronic illness. Nursing process will be applied to assist individuals/families to utilize their strengths to achieve optimum level on health-illness continuum. Prerequisites: Completion of N 408-409, 410-411 and 430-431. To be taken concurrently with N 402, 433, 435. Spring semester (1st 8 weeks).

433 Practicum: Health-Illness IV (1 credit). To be taken concurrently with N 432. Spring semester (1st 8 weeks).

435 Practicum: Health-Illness V (3 credits). Student will contract for a specific leadership and clinical experience which builds upon knowledge and skills gained from previous nursing courses. Prerequisites: Completion of N 408-409, 410-411, 430-431. To be taken concurrently with N 402 and 432-433. Spring semester (2nd 8 weeks).

Courses in the Transitional Curriculum
(To be taken by students who qualified for senior status in nursing as of Fall, 1979:)

SENIOR YEAR (Fall semester 1979 only.)

404 Overview of Professional Nursing (1 credit). Emphasis is given to historical perspectives of nursing, health delivery systems and beginning leadership responsibilities, theories and practices. Students will assess major issues and trends in nursing. Prerequisites: Completion of all junior year nursing courses, H 305 and N 490. To be taken concurrently with N 408-409 and transitional courses N 415, 406-407, 448-449. Fall semester 1979 only.

406 Overview of Nursing in Community Health (1 credit). Utilization of basic concepts of community health as relevant to human ecology, community development and community health organization. Selected
community health problems and trends will be studied as related to community health nurse roles as family advocate, health team member, facilitator for change in the community and leadership in nursing. Prerequisites: Completion of all junior year nursing courses, H 305 and N 490. To be taken concurrently with N 408-409 and transitional courses N 404, 407, 415 and N 448-449. Fall semester 1979 only.

407 Practicum: Overview of Nursing in Community Health (1 credit). Application of content from N 406 employing previously learned community health nursing process with community organization process to foster health potential of selected families within a community unit. To be taken concurrently with N 406. Fall semester 1979 only.

415 Practicum: Mental Health Nursing (1 credit). Application of nursing process to individuals/families experiencing disruption of mental health. Focus on assessment of mental status including consideration of developmental processes, sociocultural variables, role-status relationships, and patterns of communication. Prerequisites: Completion of all junior year nursing courses, H 305 and N 490. To be taken concurrently with N 408-409 and transitional courses N 404, 406-407, and N 448-449. Fall semester 1979 only.

448 Overview of Health-Illness Continuum (2 credits). Assessment and clinical judgement skills and knowledge will be further developed in biopsychosocial interpretation and application of concepts of stress, adaptation, and health-illness to the developing individual/family experiencing stressors. Prerequisites: Completion of all junior year nursing courses, H 305 and N 490. To be taken concurrently with N 408-409 and transitional courses N 404, 406-407, 415, 449. Fall semester 1979 only.

449 Practicum: Overview of Health-Illness Continuum (2 credits). To be taken concurrently with N 448. Fall semester 1979 only.

NOTE: Students in this transitional program will have taken the following additional nursing courses by the time they are graduated:

1. In the junior year: (See 1978-79 Bulletin for descriptions)
   a. N 3-6-07 Professional Interactions
   b. N 310-13 Community Health Nursing
   c. N 316-17 Health Assessment
   d. N 490 Overview of Nursing Research

2. In the senior year: (see descriptions in this addendum for courses in the revised curriculum)
   a. N 402 Professional Nursing II
   b. N 408-409 Families and Groups Under Stress
   c. N 432-33 Health-Illness IV (1st 8 weeks--2nd semester)
   d. N 435 Health-Illness V (2nd 8 weeks--2nd semester)
Page 153 - under PATRICIA A. TAYLOR, Instructor in Nursing, add M. Ed., College of Idaho

Page 154 - under KATHLEEN C. WARNER, Assistant Professor of English, change degrees to read: B. A., University of Nevada; M. A., Arizona State University; Ph. D., Indiana University.

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Page 73 - first column - change course number 441 to 422; change course number 442 to 441

Page 85 - under FINANCE MAJOR, Freshman Year - Math 105, 106 add or M 111, M 204
Junior Year, change General Electives to Principles of Production Mgmt. MG 345 . . . 3 (2nd sem)

Page 87 - under MANAGEMENT MAJOR, Quantitative Option, Senior Year - add
Quant Anal GB 366 . . . 3 (1st sem)
Change total of 1st sem to 18
under Aviation Option, M 105, 106 add or M 111 and M 204
under Aviation Option, Junior Year, change Quant Analysis GB 366 to Prin of Prod Mgt MG 345 . . . 3 (2nd sem)

Page 150 - under Richard J. McCloskey, change Assistant to Associate

Page 125 - under Pre-Med Major, Biology Option, Junior Year - change Genetics to Genetics with or without lab . . . 3-4 (2nd sem.) and change 2nd semester total to 15-16

Page 46 - under English Major, line III. 2. d., change Upper Division English electives . . . 3 to read Upper Division English electives . . . 9
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