GRADUATE SCHOOL

Dean: Kenneth M. Hollenbaugh, PhD

Graduate Program Coordinators

Business:
Associate Dean, School of Business: J. G. Doss, PhD

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

Public Administration:
Chairman, Political Science Department: Willard Overgaard, PhD

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 five areas of emphasis: (1) Curriculum and Instruction; (2) Content Enrichment; (3) Reading; (4) Special Education; (5) Early Childhood.


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

GRADUATE FACULTY

The graduate faculty is comprised of those full-time faculty who have been approved by the Graduate Council to teach graduate level courses, participate in the conduct of the graduate programs, and supervise graduate students. 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, or the original returned to the applicant or forwarded to any agency or other college or university.

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 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.
3. Completion of the predictive examination required by the department as listed under department criteria.
4. Recommendation for admission by the department in which the applicant expects to work and approval by the Graduate School.

GRADUATE STATUS CLASSIFICATIONS FOR MATRICULATED STUDENTS

Applicants may be admitted to the Graduate School under three classifications.

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

Provisional Status: An applicant may be admitted to the Graduate School with provisional status if the department or academic unit in which he plans to study requires 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 credits of approved study.

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

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

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

No more than nine credit hours taken in "Unclassified Status" may be included in any graduate degree program at BSU without waiver by the Graduate Dean upon recommendation by the school or department in which the student will work.

GRADUATE COURSES FOR UNDERGRADUATE CREDIT

Boise State University seniors may take up to two 500 level courses for Upper Division credit applied to their Bachelor Degree Program. The necessary permit forms are available through the Graduate Admissions Office and the office of each dean.
be made by departments after a detailed examination of the specific courses taken. No correspondence course will be accepted for graduate credit. All appropriate graduate work taken through inter-institutional cooperative graduate programs, if approved by the schools fielding the program, can be accepted as residence credit.

TIME LIMITATIONS
All work offered toward a Master degree from Boise State University must be completed within a period of seven calendar years. The seven-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 Degree Program, and the interval must include the date of graduation when the Master degree from BSU 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 *) 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 weeks before commencement.

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

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

The Program Development Form will be available from the schools offering graduate degree programs. The advisor or committee will field 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.

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 requirements of a final examination, written, oral, or both, in any non-thesis non-project program is optional with the department or interdisciplinary unit which 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 catalog. A student is not eligible to apply for the final examination until he has been admitted to candidacy (filed the candidacy and graduation form.)

Failure in the examination will be considered terminal unless the supervisory committee recommends, and the Dean of the Graduate 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 MBA even if the student is admitted subsequently.

Credit Limitation in Courses Graded Pass or Fail and Directed Research
599—SHORT-TERM CONFERENCE OR WORKSHOP
A maximum of three credits earned with a grade of P will be allowed toward the credit requirements for a Master 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 nine credit hours, with no more than six credits in any one semester. The School of Business has a limitation of three credits of internship and/or Directed Research for MBA students.

LIMITATIONS ON STUDENT COURSE LOADS
Graduate students seeking to take courses for graduate credit 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 responsible for the student's program.

COURSE NUMBERING SYSTEM
Courses numbered 500 and above are intended primarily for graduate students. The number designates the educational level of the typical student in the class, i.e., he has graduated from college.

Other courses taken with the 300 or 400 levels, may be given g or G designation to carry graduate credit. The department or school concerned will have the right to limit the
GRADUATE SCHOOL

number of g or G credits which can count toward any degree for which it has responsibility, and in no case can more than one-third of the credits in a degree program be in courses at the 300 or 400 level. No course numbered below 500 carries credit unless the G or g is affixed.

1. g courses carry graduate credit only for graduate students in majors outside of the area of responsibility of the department or 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 Application for Graduate Degree which can be obtained from the Graduate Admissions Office or from the Dean of Business Education. The Bookstore will notify the student how to order the cap and gown for the graduation ceremony.

University-Wide Number of Graduate Offerings:

560-589 Selected topics
590 Practicum
591 Project
592 Colloquium
593 Research and Thesis
594 Extended Conference or Workshop (Graded A-F)
595 Reading and Conference
596 Directed Research
597 Special Topics
598 Seminar
599 Short-Term Conference or Workshop (Graded Pass or Fail). This number is available in any semester or session for courses meeting 3 weeks or less.

GRADUATE PROGRAMS

School of Arts and Sciences

MASTER OF PUBLIC ADMINISTRATION

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

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

ADMISSION TO THE MPA PROGRAM

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

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

SPECIFIC ADMISSION REQUIREMENTS FOR APPLICANTS TO THE MPA PROGRAM

All applicants to the MPA program at Boise State University must meet the following requirements prior to enrollment in MPA courses:

A. Possession of a baccalaureate degree from an accredited institution.
B. Demonstration of satisfactory academic competency by attaining an overall GPA of 2.75 and recommendation for admission by the Department of Political Science. Students with a lower GPA may be admitted on provisional status on recommendation of the Department of Political Science with approval of the Graduate School. Final determination of the retention in the MPA program of a student with Provisional Status will be made after the completion of 12 credits of approved study, with the general requirements of a grade of B or better in the coursework taken.
C. Receipt of 3 letters of personal evaluation from individuals qualified to evaluate the applicant's academic potential. Evaluators may include current or former employers, as well as professors. The letters are to be addressed as follows: Chairman, Department of Political Science, Boise State University, Boise, Idaho 83725.
D. Submittal of a brief statement by the applicant indicating his/her career objectives and the area of emphasis to be undertaken in the MPA program.
E. Completion of the following prerequisite courses in undergraduate preparation or their equivalent (applicable to all students applying for admission to the MPA program):
   1. American National Government 3
   2. State, Local Government 3
   3. Introduction to Public Administration 3
   4. At least 3 credits in each of 2 of the following areas:
      a. Sociology 3
      b. Economics 3
      c. Psychology 3
   5. At least 3 credits in 1 of the following areas:
      a. Accounting 3
      b. Data Processing 3
      c. Social Statistics 3
   6. For those students selecting Human Services Administration as their area of emphasis for specialized preparation in Public Administration, at least 9 credits in Sociology.
   7. For those students selecting Criminal Justice Administration as their area of emphasis for specialized preparation in Public Administration, at least 9 credits in Criminal Justice.

128
Students who are deficient in any of the prerequisites indicated above must remove these deficiencies prior to enrollment in MPA graduate level courses for credit.

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

F. An applicant planning to achieve an MPA degree at Boise State University must be accepted by the Graduate School of Boise State University. (The student is advised to consult the appropriate section of the Catalog for any special requirement or conditions prescribed by the Graduate School.)

THE GRADUATE DEGREE PROGRAM

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

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

CORE AND OPTIONAL AREA REQUIREMENTS

The specific course requirements of the MPA program are set forth in a list of courses which have been approved by the Inter-University Committee. This list is available through cooperation between the universities which currently are available or are planned for future development. The list is to be followed by all cooperation universities. (A description of the "core areas" which are presently operational at each institution and admission forms to the MPA program are available through the Chairman of the Department of Political Science at Boise State University, the Chairman of the Department of Political Science at Idaho State University, or the Chairman of the Department of Political Science at the University of Idaho.)

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

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

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

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

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

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

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

COURSES OFFERED AT BOISE STATE UNIVERSITY FOR THE DESIGNATED "CORE AREAS" AND THE OPTIONAL "AREAS OF EMPHASIS" IN THE MPA PROGRAM

I. Designated Core Area

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

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

B. Public Management Techniques
   Fiscal Processes & Public Budgeting Process PO 510
   Program Evaluation & Quantitative Analysis PO 511
   Human Resource Management MG 541
   Computer Applications for Management DP 542

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

D. Administrative Law
   Administrative Law PO 467G

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

F. Intergovernmental Relations
   Intergovernmental Relations PO 469G

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

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

II. Optional "Areas of Emphasis"

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

A. General Public Administration
   This area of emphasis is provided to accommodate those students desiring preparation in public administration as a "generalist" rather than a "specialist" in a particular area of specialization. At BSU the student may select the remaining 12 credit hours of coursework from the courses listed below:
   Comparative Public Administration PO 465G, Administrative Law PO 467G, Intergovernmental Relations PO 469G, Program Evaluation and Quantitative Analysis PO 511, The Role of the Executive in Policy Making PO 530
   Any of the following courses, identified as "selected" topics, which will be offered as staff availability permits, may be selected also to satisfy the General Public Administration area of emphasis:
   Selected Topics:
   Administrative Theory, Organization & Behavior PO 580
   Public Management Techniques PO 581
   Public Policy & Policy Analysis PO 582
   Administrative Law PO 583
   The Executive & the Administrative Process PO 584
   Intergovernmental Relations PO 585
GRADUATE SCHOOL

Community & Regional Planning PO 586
Comparative Public Administration and Planning Systems PO 587
Arrangements may also be made in the following courses:
- Thesis PO 593
- Reading and Conference PO 595
- Directed Research PO 596
- Conference/Workshop PO 599

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

C. Criminal Justice Administration
- Special Programs in Correctional Treatment CR 510
- Special Problems of the Juvenile and Youthful Offender CR 511
- Reading and Conference CR 595
- Seminar in Criminal Justice Administration CR 598

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

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

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

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

H. Human Services Administration
- Conflict & Change in Socio-Cultural System SO 510
- The Sociology of Age — Group Stratification SO 511
- Social Demography SO 512
- Selected Topics — Human Services Administration SO 580
- Reading and Conference SO 595

COURSE OFFERINGS

PO — POLITICAL SCIENCE COURSES

GRADUATE

PO 465G Comparative Public Administration (3-0-3) (F/S). Systematic examination and comparison of varied models and theories of administrative systems, both domestic and international studies. (Students enrolled in this course for graduate level credit will be assigned special requirements on preparation). Prerequisite: PO 302.

PO 467G Administrative Law (3-0-3) (FS). Sources of power and duties of administrative agencies, rules and regulations made by agencies through investigation and hearings, judicial decisions and precedents relating to administrative activities. (Student enrolling in this course for graduate credit will be assigned special requirements on preparation). Prerequisite: PO 302.

PO 467G Organizational Theory and Bureaucratic Structures (3-0-3) (FS). Socio-political analysis of the theory and concepts of complex social organizations, their application to public administration and the inter-relationships between political science and sociological organizational theory. (Students enrolling in this course for graduate level credit will be assigned special requirements on preparation).


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

PO 520 Public Policy Formulation and Implementation (3-0-3) (FS). Process of policy-making both within an agency and within the total governmental process, emphasizing policy and program planning, policy implementation and the value system of administrators.

PO 530 Role of the Executive in Policy Making (3-0-3) (FS). The American executive: president, governor, and mayor. Consideration given to changes in institution settings and role conceptions. Role of the executive in policy-making process. Sources of strengths and weaknesses and strategies used to enact their programs. Problems of relationship of executive to bureaucracy.

PO 588 Selected Topics — Administrative Theory, Organization and Behavior (3-0-3). To be offered as staff availability permits.

PO 581 Selected Topics — Public Management Techniques (3-0-3). To be offered as staff availability permits.

PO 582 Selected Topics — Public Policy and Policy Analysis (3-0-3). To be offered as staff availability permits.

PO 583 Selected Topics — Administrative Law (3-0-3). To be offered as staff availability permits.

PO 584 Selected Topics — Executive and Administrative Process (3-0-3). To be offered as staff availability permits.

PO 585 Selected Topics — Intergovernmental Relations (3-0-3). To be offered as staff availability permits.

PO 586 Selected Topics — Community and Regional Planning (3-0-3). To be offered as staff availability permits.

PO 587 Selected Topics — Comparative Public Administration and Planning Systems (3-0-3). To be offered as staff availability permits.

PO 580 Public Service Internship (variable credits). Arranged as field experience for those students with no prior experience in governmental or other organizational assignments. Such internships will be established and arrangements made for placement through the chairmen of department of political science.

PO 592 Thesis (3 credits/semester). Selection of approved topic in public administration for major preparation and defense through consultation with major advisor.

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

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

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

CR — CRIMINAL JUSTICE ADMINISTRATION COURSES

CR 510 Special Problems in Correctional Treatment (3-0-3) (F/S). Analysis of contemporary problems in the correctional programs of American society.

CR 511 Special Problems of the Juvenile and Youthful Offender (3-0-3) (F/S). Examination of current processes in juvenile justice, rehabilitation programs, probation and utilization of community-based resources. Emphasis will be placed on preventive rehabilitative measures at the local level.

CR 580 Selected Topics — Criminal Justice Administration (3-0-3). Examination, evaluation and research regarding contemporary problems in the criminal justice system. Students will be required to do extensive reading and inquiry into special areas of concern and interest.

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

CR 598 Seminar in Criminal Justice Administration (3-0-2) (F/S). Intensive analysis of selected subject areas of the system of criminal justice administration. Prerequisite: CR 301.

SO — SOCIOLOGY COURSES

SO 501 The Sociology of Education (3-0-3). A sociological analysis of the American school system, its problems and the social forces that shape the schools in contemporary society.

SO 510 Conflict and Change in Socio-Cultural Systems (3-0-3) (F/S). Intensive examination of social and cultural change as related to technological evolution, value changes and the resultant conflict in society.

SO 511 The Sociology of Age Group Stratification (3-0-3) (F/S). Examination of the sociological effect of age as a major dimension of social organization and stratification in American society and Western civilization. The course will consider the effects of changing patterns of longevity, resultant changes in age distribution of the population as these factors affect social, economic, and political systems.

SO 512 Social Demography (3-0-3) (F/S). Techniques and methods for analyzing population growth, trends, and movement as reflected in actual data, birth-death rate, mobility, fertility and fecundity as these affect the societal patterns, especially, planning for human service programs.

SO 580 Selected Topics — Human Services Administration (3 credits)

SO 586 Reading and Conference (1-2 credits). Directed reading on selected materials in human services administration and discussion of these materials as arranged and approved through major advisor.

School of Business

GRADUATE PROGRAMS IN BUSINESS

MBA in Business
MS in Accounting

OBJECTIVES

The objectives of the Boise State University programs leading to these graduate degrees are to further prepare candidates for careers in their chosen field. The MBA degree emphasizes the traditional approach of the development of managerial generalists, with a common body of functional knowledge given to
all students. While there is no area of emphasis or major available in the MBA program, once a student satisfies the functional core of courses, electives to achieve a minor degree of concentration are possible. The MS in Accounting degree is designed for those persons who have a Bachelor degree in Accounting, or its equivalent, and who desire to increase their competencies in the Accounting field. In addition, this course of study will assist students in their preparation for taking the CPA, CFA or other certification tests. For those who have already attained certification status, it will provide an excellent vehicle for maintaining and improving current proficiencies.

Students who wish to earn a second Master degree in Business must design a program to satisfy the degree requirements in consultation with the graduate program coordinator for the MBA or the graduate Accounting advisor for the MS in Accounting. Normally a minimum of 15 credit hours will be necessary to satisfy the requirements for a second Master degree. Those students entering with a prior graduate degree from another institution are advised that a maximum of 9 graduate semester credits may be accepted and applied toward a Master degree at Boise State University.

GENERAL PREREQUISITES FOR APPLICANTS

Admission will be granted to applicants who hold a Bachelor degree from an accredited college or university and who meet the standards set by the School of Business of Boise State University. Common to all programs is a foundation of prerequisite knowledge in basic fields of Business Administration. Students presenting a Bachelor degree in Business or Accounting normally will have completed most of these requirements as part of their undergraduate program. The Master of Business Administration program is also designed to serve the student who has completed his Bachelor degree in non-Business fields such as the Sciences, Engineering, and the Liberal Arts. Therefore, the students must demonstrate proficiency in prerequisites. These prerequisites may be fulfilled by satisfactory completion of coursework in these areas, or by successfully passing the acceptable CLEP examination, and any other local departmental requirements. The Master of Science in Accounting can be achieved by those students not holding a degree in Accounting, or its equivalent, only by accomplishing required coursework to receive a second degree in Accounting, or specifically designed programs to obtain the equivalent knowledge.

MATRICULATION REQUIREMENTS

SPECIFIC PREREQUISITES FOR APPLICANTS

All applicants must meet the following undergraduate requirements or must fulfill these requirements prior to enrollment in Master classes. (New applicants for the programs should furnish documentary evidence of GMAT score and copies of official transcripts upon initial application. For fall enrollment, students should arrange to take the GMAT by July. For spring enrollment, the GMAT should be taken no later than the October or November test date.)

(a) Possession of a Bachelor degree from an accredited institution.

(b) Demonstration of satisfactory academic competency by virtue of acceptable scores achieved by either of the following two formulae:

- 200 X overall GPA plus GMAT score must equal 1000 minimum
- 200 X junior/senior GPA plus GMAT score must equal 1050 minimum

(c) For foreign students, in addition to the above formulae minimum, a score of 525 on the TOEFL, or its equivalent, is necessary.

(d) Prerequisites:

1. Accounting (equivalent to one year)
2. Economics (equivalent to one year)
3. College level Mathematics (equivalent to one year)
4. Management
5. Business Law
6. Marketing

7. Finance
8. Production Management
9. Data Processing
10. Business Statistics
11. For the MS student, sufficient Accounting courses to have achieved the Accounting degree or equivalent.
12. Business writing proficiency — must be demonstrated by passing a proficiency test. Failure to pass this test will require enrollment in OA 238, Applied Business Communications, or equivalent.

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

The student may be required to remove other deficiencies as determined by the School of Business.

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

THE MBA DEGREE

The Master of Business Administration degree consists of a minimum of 30 semester hours of credit from the offerings listed on the following pages or other graduate courses suitable to an MBA degree, as accepted by the MBA Admissions Committee.

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

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

Students may elect a maximum of 6 credit hours from the 400 level "G" courses from the undergraduate School of Business program. Only those courses listed on the following pages are approved. Advisors should be consulted regarding those courses.

Under certain conditions with the approval of the MBA program coordinator and the Department head concerned, MBA students may earn up to a maximum of 3 credit hours of Directed Research and/or Internship credits which apply to graduation requirements.

MBA — REQUIRED CORE COURSES

COURSE OFFERINGS

GB 510 Business and its Environment (3-0-3) (FS). Examination of the interaction between business and the economic, social, political and legal order, both domestic and worldwide. By utilizing analysis of particular situations, it focuses attention on the broad effects of this total environment on the administration of business.

*GB 512 Statistical Methods for Business Decisions (3-0-3) (Alternate Semesters). The application of the techniques and the reasons for their employment in decision processes. Computer application programs are employed to assist in the learning process. Topics generally covered include: multiple regression analysis, forecasting and Bayesian decision theory. Prerequisite: GB 207, MG 301, DP 210 or equivalent courses.

*GB 514 Operations Research Methods for Decision Making (3-0-3) (Alternate Semesters). An introduction to operations research, applying quantitative tools and interpreting the results. Particular attention is given to using the computer to analyze quantitative models. Typical areas covered are: linear programming, network models, and inventory control theory. Prerequisite: graduate standing, GB 207, DP 210 and MG 301 or equivalent courses.

*Student selects either GB 512 or GB 514.

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

FI 536 Financial Management (3-0-3) (FS). Financial planning and control, capital budgeting, risk analysis, cost of capital and the capital asset pricing model, capital structure planning, dividend policy, bond refunding problems, short and long-term financing requirements, mergers and acquisitions, social responsibility of financial executives, and multinational problems. Prerequisite: GB 512 or GB 514.

AC 532 Accounting — Planning and Control (3-0-3) (FS). Study of the planning and control processes to assist in the making of business decisions. Problems and cases are considered in profit planning and analysis, cost analysis for pricing, and capital budgeting. Overall objective is an understanding of techniques of cost planning and control.

MG 540 Organization Theory (3-0-3) (FS). Determinants and effects of organizational design, with history and current trends in organizations. Methods of analyzing...
The Master of Science—Accounting degree consists of a minimum of 33 hours of credit from offerings with the program described below.

The 33 credit hour requirement consists of a minimum of 15 hours in Accounting courses; 15 hours in current MBA courses; and 3 hours of an elective chosen by mutual agreement between the applicant and the School of Business. Areas available for this elective are: A professional paper; GB 579, Business Policy Formulation, if none has been previously taken; or the applicant's choice of an MS or MBA course. An Accounting advisor is assigned in order to assist in the choices available to the candidate. Students may apply a maximum of 6 credits from undergraduate "G" level courses from the School of Business to their MS program. Directed Research or Internship credits will be limited to 3 credit hours, except in special cases.

**MAJOR OF SCIENCE COURSES**

See description in MBA courses for the following:
- GB 512 or 514
- Computer Applications for Managers
- Accounting Theory AG 440G
- Financial Management FI 530
- MG 540 or MK 519
- Graduate Economics Electives

See description below for the following:
- Advanced Managerial Accounting AC 510
- Research in Federal Taxation AC 520
- Perspectives in Auditing AC 540
- Contemporary Issues in Accounting AC 569

If a Professional Paper is selected, it must be an approved topic coordinated and supervised by a committee assigned by the Department of Accounting/Data Processing. If no Business Policy course has been taken previously, GB 579 must be taken for this elective.

Applicants desiring to enter this program should contact the Master of Science Advisor (385-3461) or the Graduate Program Coordinator (385-1125) in order to commence the application process and plan an orderly progression toward the degree.

**COARSE OFFERINGS**

**GRADUATE**

AC 510 Advanced Managerial Accounting (3-0-3) (S). Study of information and reporting needs of contemporary management for planning, control and decision-making purposes. Representative topics include developing and reporting useful cost information, cost-volume-profit analysis, operational, cash, capital budgeting, and responsibility accounting.

AC 520 Research in Federal Taxation (3-0-3) (F). Study of the more complex provisions of the Internal Revenue Code pertaining to individuals, partnerships, corporations, and estates and trusts. Tax planning for the business enterprise and the gift and estate taxes are emphasized by the application of tax principles throughout the course, as is student research into tax planning solutions.

AC 540 Perspectives in Auditing (3-0-3) (F). Designed to complete a student's formal education in auditing. Topics include the requirements of the SEC, methods of applying statistical techniques to auditing problems, the auditing of records maintained on computerized systems, and informal auditing methods.

AC 569 Contemporary Issues in Accounting (3-0-3) (S). Designed to familiarize the student with significant unresolved issues currently facing the accounting profession, to examine in depth the various solutions proposed by accounting scholars and others, and to strengthen the student's understanding of today's critical issues in accounting theory.

**School of Education**

**MASTER OF ARTS—ELEMENTARY EDUCATION GENERAL REQUIREMENTS**

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

Applicants for regular status in the program must have maintained a GPA of at least 3.00 for the last two years of undergraduate study, or an overall GPA of 2.75. Provisional status may be granted to an applicant not meeting the listed requirements.

The name of the faculty member who will serve as chairperson of the candidate's committee is listed in the letter of acceptance to the applicant. Candidates should contact the assigned committee chairperson (advisor) as soon as possible in order to plan a program. Credits taken prior to such planning are subject to the
review and approval of the committee chairperson and the Dean of the School of Education prior to acceptance in the planned program.

A maximum of 9 semester graduate credits may be accepted from other graduate schools upon approval of the chairperson of the candidate’s committee and the Dean of the School of Education.

Six semester hours of credit will be open for selection in any area of the University’s course offerings that will enable the candidate to strengthen a competency in elementary instruction. The candidate, in cooperation with the advisor, will choose courses which will meet the individual’s needs as a teacher. Specific courses are listed within each area of emphasis.

OPTION REQUIREMENTS

The Elementary Education Graduate Program provides two options within the MA degree requirements: Option I — Thesis/Project, and Option II — Written Comprehensive Examination.

OPTION I

(THESIS/PROJECT)

Required of all candidates — Core Program .......................... 9
Required of all candidates — Fundamentals of Educational Research for Teachers TE 551 ........................................... 3
Selected Electives and/or Specific Requirements ........................ 12
A Thesis/Project, as mutually agreed upon by the Option I candidate and the committee, is required of the candidate. Selection of a Thesis/Project implies a Project directly related to instruction or some other aspect of the elementary program.

OPTION II

(COMPREHENSIVE EXAMINATION)

Required of all candidates — Core Program .......................... 9-9
Required of all candidates — One of the following: 1-3
Fundamentals of Educational Research for Teachers TE 551 ........................................... 3
Interpreting Educational Research TE 565 .................................. 1
Select Electives and/or Specific Requirements ........................ 20-18
(Thesis/Project not required) ........................................... 30-30

Required of all candidates — A comprehensive written examination at the end of the coursework. This examination is to be tailored by each candidate’s committee specifically for that candidate following guidelines established by the Department. After the candidate has written the examination, the committee will meet with the candidate to review and analyze the outcome of the examination and clarify the results prior to final approval or rejection.

AREAS OF EMPHASIS

The candidate selects one of five areas of emphasis:

1. **Curriculum and Instruction**
   A program is planned for the person who desires to continue as a generalist in Education.

2. **Content Enrichment**
   The programs are planned for persons interested in subject area specialties such as Art, Mathematics, and Music. The advisor has information regarding approved subject areas.

3. **Early Childhood**
   The program is planned for the person who desires to specialize in Early Childhood Education.

4. **Reading**
   The program is planned for the person who desires to specialize in Reading Education.

5. **Special Education**
   Programs are planned for persons interested in the areas of Learning Disabilities or Mental Retardation.

---

**GRADUATE SCHOOL**

**CURRICULUM**

**REQUIRED OF ALL CANDIDATES**

Core program of 9 credit hours consisting of TE 570, 571, 563 and two 1-credit hour classes is required of each candidate.

Courses are as follows:

- Comprehensive Core of Elementary Education
- Select Electives and/or Specific Requirements 20-18
- Thesis/Project not required) 30-30

**Curriculum and Instruction Emphasis**

(Courses and Requirements)

Twelve semester hours of credit must be chosen from courses in this Elective Area. At least one course must be selected from Cluster I and from Cluster II.

- Cluster I (choose at least one course)
  - Advanced Practices and Principles in Teaching Social Science TE 510. Fall
  - Mathematics TE 511. Spring
  - Advanced Practices and Principles in Teaching Language
  - Arts and Linguistics TE 512. Summer
  - Advanced Practices and Principles in Teaching Elementary Science TE 513. Fall

- Cluster II (choose at least one course)
  - Individual Tests & Measurements TE 505. Each Semester
  - Development of Skills for Teaching Pupils with Learning Difficulties TE 515. Fall
  - Development of Skills for Teaching the Fast Learner TE 516. Spring
  - Development of Skills for Teaching the Mentally Retarded TE 517. Spring
  - Counseling & Consulting in the Elementary and Special Classroom P 501. Each Semester
  - Advanced Educational Psychology P 502. Either Semester
  - Individual Testing Practicum P 503. Spring, odd numbered years
  - Analysis of the Individual P 594. Fall
  - Personality Development P 595. Spring
  - Psychological Measurement P 421G. Fall

**Additional Elective Courses**

- Diagnosis of Reading Problems TE 502, Spring and Summer
- Remediation of Reading Problems TE 503
- Spring and Summer
- Techniques for Creative Writing in Elementary Schools TE 518
- Advanced Children’s Literature TE 519
- Spring
- Educational Media TE 520. Summer, every other year
- Elementary Physical Education Activities TE 521
- Summer, every other year
- Individualization of Reading Instruction TE 522
- Spring and Summer
- Education for the Culturally Different Learner TE 531. Spring
- Education in Emerging Nations TE 541. Fall
- Fundamentals of Educational Research for Teachers TE 551. Fall
- Supervision in Schools TE 555. Fall/Spring
GRADUATE SCHOOL

Values & Ideology in Education TE 559. Spring ............... 3
Adolescent Psychological Problems P 598. Fall, every other year .... 3

NOTE: See the listing of courses in the following developmental sections of the Catalog for Elective courses outside of the School of Education: Art, English, Geology, History, Music and Sociology.

Content Enrichment Emphasis
(Courses and Requirements)
Candidates complete 12 to 15 credit hours within the area of emphasis. The remaining 3 to 6 credits may be selected from the offerings previously listed.

Early Childhood Emphasis
(Courses and Requirements)
Candidates complete 6 credit hours of the required listing and 6 credit hours from the selected electives. The open electives of 6 credit hours are to be selected from the courses listed as elective electives or from other courses that complement the emphasis in early childhood.

Required (6)
Childhood Education Research & Review TE 543 ............. 3
Advancing Physical & Intellectual Competencies in Early Childhood Education TE 544 ......... 3

Selected Electives (8)
Creativity in Early Childhood Education TE 545 ............. 3
Diagnosis & Evaluation in Early Childhood Education TE 546 ......... 3
Language Acquisition & Development in Early Childhood Education TE 547 .......... 3
Program Development in Early Childhood Education TE 548 .......... 3
Open Electives (6)

Reading
(Courses and Requirements)
Candidates must complete the 12 credit hours listed below.
Diagnosis of Reading Problems (Directed Experiences in the Reading Center) TE 502. Fall, Summer ......... 3
Remediation of Reading Problems (Directed Experiences in the Reading Center) TE 503. Spring, Summer ............. 3
Development of Skills for Teaching Pupils with Learning Difficulties TE 515. Fall .......... 3
Seminar in Reading Education TE 504. Fall, Summer .......... 3

Special Education Emphasis
(Courses and Requirements)

LEARNING DISABILITIES
Candidates complete 13 credit hours of the required listing. The remaining 5 hours are to be selected from the elective listing.

Required (13)
Diagnosis of Reading Problems (Directed Experiences in the Reading Center) TE 502. Fall, Summer .......... 3
Remediation of Reading Problems (Directed Experiences in the Reading Center) TE 503. Spring, Summer .......... 3
Development of Skills for Teaching Pupils with Learning Difficulties TE 515. Fall .......... 3
Practicum in Learning Disabilities TE 590. Each Semester, Summer .......... 4

Electives (5)
Instructional Materials for the Exceptional Child TE 440. Fall .......... 3
Behavior Intervention Techniques TE 450G. Spring, Summer .......... 3
Emotionally Disturbed Child in the Classroom TE 423 TE 523. Fall, Summer .......... 3
Physical Education in Special Education PE 594. Summer .......... 2
Personality Development P 505. Fall .......... 3

MENTAL RETARDATION
Candidates complete 13 credit hours of the required listing. The remaining 5 hours are to be selected from the elective listing.

Required .......... 13

Behavior Intervention Techniques TE 450G. Spring .......... 3
Development of Skills for Teaching the Mentally Retarded TE 517. Spring .......... 3
Practicum in Mental Retardation TE 590. Each Semester and Summer .......... 4
Guidance & Consulting in the Elementary and Special Classroom P 501. Each semester, Summer .......... 3
Electives (5) (only 6 credit hours of undergraduate courses in a program)
Curriculum for the Severely Handicapped TE 422. Fall .......... 3
Teaching the Severely Handicapped TE 432G .......... 3
Instructional Materials for the Exceptional Child TE 440. Fall .......... 3
Child Behavior in Early Childhood Education TE 461. Spring .......... 3
Curriculum in Early Childhood Education TE 461 Spring .......... 3
Individual Tests and Measurements TE 505. Each Semester .......... 3
The Emotionally Disturbed Child in the Classroom TE 523. Fall, Summer .......... 3
Physical Education in Special Education PE 594. Summer .......... 2

MASTER OF ARTS/SCIENCE — SECONDARY EDUCATION

General Information
A Master Degree in Secondary Education with emphasis in the subject areas of Art, Business Education, Earth Science, English, History, Mathematics and Music is presented through the Department of Teacher Education, the related subject department, and the School of Education.

Specific information appropriate to the secondary Master degree encompassing all areas of emphasis is as follows:

1. Each candidate is to have a subject area emphasis within a department or a combination of departments.
2. The degree will include a minimum of 27 hours plus from 3 to 6 semester hours for the culminating activity.
3. Each candidate’s program shall include a minimum of 18 semester credit hours within the area of emphasis.
4. Each department will determine the nature of the culminating activity from (1) a thesis with an appropriate examination, (2) a project with an appropriate examination, or (3) 3 to 6 additional credits with an appropriate examination.
5. The candidate’s committee shall consist of three members with the chairperson from the area of emphasis, one member from the Department of Teacher Education and one from any department.
6. Recommendations for admission shall come from both the School of Education and the involved department.
7. Applicants for regular status in the program must have maintained a GPA of at least 3.00 for the last two years of undergraduate study, or an overall GPA of 2.75. Provisional status may be granted to an applicant not meeting the listed requirements.

Courses in Teacher Education
Required Courses in Education
Candidates are required to complete TE 560 Core in Secondary Education, TE 563 Conflicting Values in Education, and two 1-credit courses from the listing.
Core in Secondary Education TE 560. Summer .......... 3
Conflicting Values Influencing Education TE 563. Summer .......... 3

Two 1-1-credit classes from the following list:
Creative Teaching — Secondary School TE 564 .......... 1
Interpreting Educational Research TE 565. Summer .......... 1
Learning Theory & Classroom Instruction TE 566. Summer .......... 1
Teaching Subject Content Through Reading TE 567. Summer .......... 1
Techniques of Classroom Management TE 568. Summer .......... 1
Testing and Grading TE 569. Summer .......... 1
Creative Teaching — Elementary School TE 573. Summer .......... 1
ELECTIVE COURSES

- TE 501 Advanced Practices and Principles of Teaching Reading (3-0-3). The course is designed for secondary teachers in all academic areas who desire to develop efficient reading tests. Prerequisite: TE 503.

- TE 505 Personality Development (3-0-3). Critical consideration of the main personality theories, with particular emphasis on those which emphasize concepts regarding learning, perception, and motivation. Prerequisite: P 413.

- TE 507 Relating Reading Process to Secondary School Subjects (3-0-3). This course is designed for secondary teachers in all academic areas who desire to develop efficient methods of utilizing instructional materials in their content subjects.

- TE 509 Teaching Reading in the Secondary School (3-0-3). The course is designed for reading specialists in junior and senior high schools. Specific methods and materials of testing and instruction of students with reading problems will be emphasized. Prerequisite: P 421.

- TE 510 Advanced Practices and Principles of Teaching Social Science (3-0-3). A comprehensive study of the practices and principles in social science education, including objectives, social problems, unit development, work-study skills, organization of the program materials and media, and research findings basic to social studies will be developed.

- TE 511 Advanced Practices and Principles of Teaching Elementary School Mathematics (3-0-3). Emphasis will be placed on creative methods and strategies for teaching elementary school mathematics. Also included is a review of current research, curriculum trends and exploration of experimentation with unique materials for teaching mathematics.

- TE 512 Advanced Principles and Practices in Teaching Language Arts and Linguistics (3-0-3). Emphasis will be placed on the role of language arts and linguistics in the school curriculum, stressing modern approaches to language development, semantics, phonetics, phonics, and orthography.

- TE 513 Advanced Practices and Principles in Teaching Elementary Science (3-0-3). Current practices and principles in modern elementary science concepts are developed. Emphasis is placed on the selection and organization of content and experimental activities.

- TE 515 Teaching Skills for Remediation of Learning Disabled Students (3-0-3). An advanced course in developing skills and techniques in the educational planning and remediation of students with learning disabilities.

- TE 516 Teaching Gifted and Talented Students (3-0-3). Teachers and others working with the instructional needs of gifted and talented students will be made aware of the techniques of meeting the educational goals of these exceptional individuals. Methods and materials for this approach will be evaluated as to application and assessment.

- TE 517 Development of Skills for Teaching Moderately/Severely Handicapped (3-0-3). This course is designed for teachers of moderately/ severely handicapped students. Current issues, philosophies, and research implications for teaching will be emphasized. Prerequisite: TE 423, PERM/INST.

- TE 518 Techniques for Creative Writing in Elementary Schools (3-0-3). Methods and techniques for encouraging creative writing in the elementary school.

- TE 519 Children's Literature, Advanced Level (3-0-3). Current literature for children, including emphasis upon poetry and presentation, is presented. Issues in children's book selection are discussed.

- TE 520 Educational Media (3-0-3). This course will acquaint the elementary classroom teacher with the latest educational media available for use. Evaluation of the materials in a media center will be studied. Emphasis upon the use of a curriculum research center in the local school system is made.

- TE 521 Elementary Physical Education Activities (3-0-3). Methods and techniques for classroom and playground activities for physical education, curriculum development will be presented. Emphasis upon correct physical education procedures will be given. Alternate years.

- TE 522 Individualization of Reading Instruction (3-0-3). Emphasis upon the individualized approach to reading instruction is developed. Techniques of conferencing book selection, skill development and independent language arts activities are explored.

- TE 523 The Emotionally Disturbed Child in the Classroom (3-0-3). This course is designed to assist teachers, counselors, and administrators in understanding the emotional and social needs of the emotionally disturbed child. Emphasis is placed on developing skills in identifying emotional problems and planning the remedial needs for correction. Prerequisite: PERM/INST.

- TE 524 Educational Psychology (3-0-3). A study of the development of educational psychology in the context of contemporary issues and trends in psychology and educational psychology. Odd number years.

- TE 525 Personality Development (3-0-3). Critical consideration of the main personality theories, with particular emphasis on those which emphasize concepts regarding learning, perception, and motivation is developed. Study of the interaction of emotional and cognitive factors in personality development at different age levels is pursued. Prerequisite: P 101.

- TE 526 Counseling and Consulting in the Elementary and Special Classroom (3-0-3). The practice of participative techniques in bringing about change of inappropriate behaviors. Counseling and consultative processes fundamental in serving the several areas of the exceptional child are practiced. Prerequisite: P 101.

- TE 527 Supervision in Schools (3-0-3). Emphasis is placed on the selection and organization of content and experimental activities.

- TE 528 Development of Skills for Teaching Social Studies (3-0-3). Emphasis will be placed on the role of language arts and linguistics in the school curriculum, stressing modern approaches to language development, semantics, phonetics, phonics, and orthography.
GRADUATE SCHOOL

standard and non-standard English speaking backgrounds. Discuss factors which can interfere with or promote the development of language. Odd numbered years.

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

TE 551 Fundamentals of Educational Research for Teachers (3-0-3) (F). The planning of educational research with emphasis on the nature of scientific inquiry, formulating research and evaluation plans, and critiquing published research.

TE 553 Supervision of Instructional Personnel (3-0-3) (S). A course designed to improve the supervision skills of elementary/secondary cooperating teachers and other supervisory personnel. Emphasis will be placed on a variety of observation and evaluation strategies designed to improve instruction.

TE 559 Values and Ideologies in Education (3-0-3) (S). Students will analyze and evaluate past and contemporary philosophies and ideologies and the values derived from them as they apply to education.

TE 560 Core in Secondary Education (3-1-3) (SU). This course provides a central theme for the graduate student in secondary education encompassing aspects of philosophy, psychology, an sociology of education. These areas are explored in a series of large group presentations. Students prepare a paper based on their individual interests related to the presentations. Prerequisite: Graduate status. Corequisites: TE 570, TE 571.

TE 564 Creative Teaching - Secondary Schools (1-0-1) (SU). The course will explore various approaches to classroom teaching methodology and atmosphere which are innovative and creative.

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

TE 566 Learning Theory and Classroom Instruction (1-0-1) (SU). A graduate level course designed to provide an introduction to current learning theories and how these in turn affect classroom instruction, textbook development and curriculum trends.

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

TE 571 Graduate Core Directed Writing (3-0-3) (SU). This course is part of the graduate education core. Included in this course is a series of classes designed to familiarize students with elements of writing style and literary research. Students will select a topic and write a formal paper on an issue raised in core. Corequisites: TE 570, TE 571.

TE 572 Creative Teaching - Elementary School (1-0-1) (SU). Exploration into the meaning of creative teaching and learning. Emphasis on establishing environments which foster creativity and strategies which encourage creative thinking and behavior. Special emphasis on designing practical classroom techniques for the teacher's classroom and evaluating creative growth of children.

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

TE 590 Practicum in Special Education (0-0-4). Students enrolling in this course shall be placed in actual educational experiences with children identified as exceptional children. Specific needs of the individual shall dictate placement and type of experiential exposure. It is the intent of this course to develop a person with the desired skills required for teaching exceptional students. Prerequisite: PERM/INST.

TE 591 Project (0-12-6).

TE 593 Thesis (0-12-6).

MASTERS OF ARTS, SECONDARY EDUCATION*

Art Emphasis

ADMISSIONS AND PROGRAM

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

B. The following will be submitted to the Art Department Admissions Committee:

1. Three letters of recommendation from Art educators or professional persons who are acquainted with the student's academic qualifications to pursue graduate study.
2. A minimum of twenty slides or a portfolio of recent Art work.
3. A statement of the student's professional objectives and philosophy of Art Education and how these will be furthered by graduate study.

C. Program areas of study are as follows:

1. Required Courses:
   - Art Appreciation in the Educational Program AR 501 .................................................. 3
   - Special Methods: Curriculum Development in Art Education AR 551 .................................. 3
   - Project AR 591 .................................................. 6
   - Thesis (or additional hours) AR 593 ................................. 6
   - Secondary Education Core Courses TE 560 .................................................. 6

2. Studio or Content: Six credits in the studio. Studio concentration and emphasis will be determined by the student and his committee.

3. Electives: The remainder of the student's work may be elected in relation to his background, interests, and professional objectives in consultation with his major advisor and committee.

*The graduate level courses to support this program will be regularly offered in the fall and spring semesters when funded by the Legislature.

COURSE OFFERINGS

AR — ART COURSES

GRADUATE

AR 501 Art Appreciation in the Educational Program (3-0-3) (F). A historical and contemporary survey of modern art movements since 1900. Emphasis will be placed on understanding the motivations behind the current trends and interpretations of the ideas and symbols. Also emphasized will be communication of this understanding to the various age groups represented on the secondary school level. Prerequisite: Graduate status or PERM/INST.

AR 521 Teaching Through Experimental Art Media (0-6-3) (SU). (Previously approved for Elementary Master's Degree). Varied and unusual experimental art media to be used in conjunction with traditional techniques. Students will have the opportunity to solve procedural problems and adapt art media to teaching experiences. Some outside reading will be required, as well as a written paper. Prerequisite: Graduate standing. Permission only by request.

AR 522 Teaching Through Experimental Art Media (0-6-3) (SU). Varied and unusual experimental art media to be used in conjunction with individual teaching techniques. Students will have the opportunity to solve procedural problems and adapt art media to teaching experiences. Some outside reading will be required, as well as a written paper. Prerequisite: Graduate standing. Summer only by request. Alternate years.

AR 551 Special Methods: Curriculum Development in Art Education. (3-0-3) (F). Designed for the secondary school art teacher, this course will be geared to creative curriculum planning. It will be held in a workshop seminar format to facilitate student interaction and the opportunity to experiment and develop new ideas. Prerequisite: Graduate status and PERM/INST.

AR 550-589 Series Selected Topics (3-0-3). An opportunity for the student to work independently with a particular teacher in a specific area or media. A total of nine credits allowable which can be divided into several areas or concentrated, distribution determined by the graduate student and committee.

AR 580 Selected Topics — Drawing

AR 581 Selected Topics — Painting

AR 582 Selected Topics — Crafts

AR 583 Selected Topics — Sculpture

AR 584 Selected Topics — Photography

AR 585 Selected Topics — Ceramics

AR 586 Selected Topics — Printmaking

AR 587 Selected Topics — Designing

AR 588 Selected Topics — Illustration

AR 589 Selected Topics — Art History

AR 591 Project (6 credits). See below.

AR 595 Thesis (V-V-6). The thesis, or culminating project, may be defined, but is not limited to a combination of any two of the following projects.

AR 598 Selected Topics — Drawing

AR 599 Selected Topics — Painting

AR 600 Selected Topics — Crafts

AR 601 Selected Topics — Sculpture

AR 602 Selected Topics — Photography

AR 603 Selected Topics — Ceramics

AR 604 Selected Topics — Printmaking

AR 605 Selected Topics — Designing

AR 606 Selected Topics — Illustration

AR 607 Selected Topics — Art History

AR 608 Project (6 credits). See below.

AR 609 Thesis (V-V-6). The thesis, or culminating project, may be defined, but is not limited to a combination of any two of the following projects.
A. A curricular proposal in written form which could be considered for implementation in the schools.
B. A one-person art show with a full faculty review.
C. A student portfolio of work with a full faculty review.
Prerequisite: Graduate status.

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

CM — CHEMISTRY COURSES
C 491G Advanced Inorganic Chemistry (3-0-3) (F). Quantum mechanical overview of atomic and molecular structure, bonding in ions, complexes, nonaqueous solutions, and selected properties of elements of the periodic table and organic compounds.
Prerequisite: Physical Chemistry, C 322 or PERM/INST.

C 411G Instrumental Analysis (2-0-4) (S). Theory and practice of the more common instrumental methods of analysis. Laboratory experience with commercial instruments.
Prerequisite: Quantitative Analysis C 211 and Organic Chemistry C 320. C 320 may be taken concurrently with C 411.

C 413G Introduction to Biochemistry (3-0-3) (F). A study of the chemistry of biologically important compounds, and an introduction to metabolism.
Prerequisite: C 318.

C 432G Biochemistry Laboratory (0-0-3) (S). Identification, isolation, and reaction of biologically important compounds.
Prerequisite: C 431 or concurrent enrollment.

C 433G Biochemistry (3-0-3) (S). The function of biological compounds, including intermediary metabolism and synthesis of proteins. Cellular control mechanisms of these processes are integrated into the material studies.
Prerequisite: C 411.

C 501 History of Chemistry (3-0-3). The study of the development of chemistry from its early stages through the present. Emphasis will be placed on the development of chemical concepts. The important contributors to these concepts and the interrelationships between chemistry and the general course of history.
Prerequisite: Two years of college chemistry and one year of history or PERM/INST. Offered on demand.

C 503 Spectroscopy (3-0-3). Concepts and practical usage of ultraviolet, infrared, nuclear magnetic, and mass spectrometry. Emphasis will be placed on use of instruments and interpretation of spectra. Prior knowledge of spectroscopy not required.
Prerequisite: Eight hours of general chemistry and six hours of organic chemistry. Offered on demand.

C 509 Chemistry of Life Processes (3-0-3). The course introduces the student to basic concepts of biochemistry associated with a coverage of current topics ranging from allied health to environmental chemistry. Classroom demonstration material will be correlated with lecture material. Prerequisite: One year of general chemistry and organic chemistry. Offered on demand.

C 511 Advanced Analytical Chemistry (3-0-3). Stoichiometry involved in separations and instrumental methods of analysis. The course will be flexible in nature to adapt to the varied background of the expected students.
Prerequisite: Quantitative Analytical Chemistry or PERM/INST. Offered on demand.

C 515 Nuclear and Radiochemistry (3-0-3). Atomic and nuclear structure, radioactivity, nuclear reactions, radioactive decay laws, interaction of radiation with matter, detection chemistry. Offered on demand.

MASTER OF ARTS — SECONDARY EDUCATION, Business Education Emphasis

ADMISSIONS AND PROGRAM
A. The Master Degree Program is designed to meet the needs of business teachers. Because of the large number of business courses offered at the secondary level and because of the unique delivery systems at that level, the program is designed with the flexibility and breadth considered necessary to meet a wide range of needs of those students enrolling.

Admissions will be granted to applicants who hold a Bachelor degree from an accredited college or university and who meet the admissions requirements for the degree. Before advancement to candidacy can be granted, the student must:
1. ordinarily show eligibility for certification by the State of Idaho (or any other state), and
2. have completed the following prerequisite courses or their equivalent:
   a. Principles of Accounting 6
   b. Principles of Economics 6
   c. Business Law 3
   d. Data Processing 3
   e. Marketing 3
B. Program Requirements: A maximum of 14 credit hours may be taken from the School of Business courses excluding the listed BE courses.

1. Secondary Education Core Courses (see page 102 Teacher Education) 6
2. Business Courses chosen from:
   a. Business Education:
      Graduate Study in Business Education BE 511 (required) 3
      Curriculum & Instruction in Shorthand, Transcription & Office Procedures BE 520 3
      Curriculum & Instruction in Typewriting, Bookkeeping-Accounting & Data Processing BE 530 3
      Curriculum & Instruction in Basic Business and Economics BE 540 3
      Organization & Supervision of Business Education BE 571 3
      Directed Research BE 596 variable
      Workshop in Business Education BE 599 1-3
      Office Systems & Procedures OA 501 3
      Principles & Organization of Vocational Education Programs BE 441G 3
      Administration & Coordination of Cooperative Programs B 443G 3
   b. Business Administration (minimum) 6
      These credits chosen from MBA courses and/or G courses offered by Departments of Accounting and Data Processing, Management and Finance, Marketing and Mid-Management, Economics, and Mathematics.
   c. Free Electives 9
   d. Option of:
      a. Thesis BE 593 3-6
      b. Project BE 591 3-6
      c. Additional coursework 3-6
   e. Any approved 400 level G courses 6

COURSE OFFERINGS

BE — BUSINESS EDUCATION

GRADUATE

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

GO 501 Earth Science Teaching Techniques (3-0-3) or (4-0-4) (F/S). This course is a study of the objectives, methods, and materials of instruction in Earth Sciences. Emphasis will be placed on the preparation and presentation of lectures, laboratory exercises and field trips. This course provides the student with EIEective experience in the laboratory and lecture classroom. Prerequisite: Graduate status of PERM/INST.

GO 571 Geochemistry (3-0-3) (S). The application of chemical principles to the understanding of earth materials and processes. The origin and distribution of elements in the earth and the solar system. Geochemical "cycles". Chemical principles of mineral formation and weathering. Geochemistry and the environments. Prerequisite: Graduate status, GO 103 and CH 134 or PERM/INST.

GO 591 Project (0-0-3 to 0-4). A field, laboratory or library investigation. The student will select a project according to his own interest and pursue it to a logical conclusion. Weekly progress meetings are held with the instructor and a final report is required. Prerequisite: Graduate status and 15 credits in Earth Science or PERM/INST.

GO 593 Thesis (0-3 to 0-6). The scholarly pursuit of original work on a field or laboratory project in the formulation of additional hypotheses and logical interpretations of empirical data collected by library research. A final report suitable for presentation at a meeting of Earth Science professionals is required. Prerequisite: Admission to candidacy.

GO 596 Directed Research (0-1 to 0-4). Field, laboratory or library research project. Student may work on his own project, or select from a list provided by instructor. Weekly progress meetings, final report. Prerequisite: Physical Geology or Fundamentals of Geology and/or PERM/INST.

GO 598 Graduate Seminar (0-1 to 0-3). The preparation and presentation of oral and written reports on topics in Earth Science and/or science education. Presentation of oral reports may take the form of debate. Preparation of visual aids and geologic Illustrations will be emphasized. Prerequisite: Admission to candidacy or PERM/INST.

GS — GENERAL SCIENCE

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

MASTER OF ARTS, SECONDARY EDUCATION, English Emphasis

Applicants who have at least twelve semester credit hours of Upper Division work in English with a grade point of 3.00 in those courses and who meet general graduate school requirements will be admitted as regular graduate students. Students who do not have the required Upper Division English work will be admitted on a provisional basis and will be advised what steps to take to qualify for regular status.

PROGRAM REQUIREMENTS

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

1. An introductory seminar, 12 hours of graduate English courses, a thesis or project 6 hours from the Education core, and 9 hours of general graduate Electives. At least 9 hours of the English courses must be at the 500 level.

   E 500 ........................................................................ 3
   E 593 or E 595 .............................................................. 3-6
   Graduate English Electives (except E 501) ....................... 12
   Education Core TE 560 .................................................. 6
   General Graduate Electives (may include E 501) ......... 3-9

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

   E 500 ........................................................................ 3
   Graduate English Electives (except E 501) ....................... 15
   Education Core TE 560 .................................................. 6
   General Graduate Electives (may include E 501) ......... 9
   Examination on English Coursework ............................ 3

E — ENGLISH COURSES

Graduate

The Introductory Seminar (E 500) is prerequisite to other 500 level seminars. However, with the consent of the student's committee, the student may concurrently take another seminar. With the exception of E 501 and E 597, all seminars will be in specified areas of American and British literature and linguistics, though they may cover influence from other literatures. A maximum of 6 hours in 400G English courses may be substituted for seminar work in the English core. E 501 may be taken as a general elective, but may not be counted toward a student's English core.
Since the content of courses E 501, 550, 540, 550, 560, 507 and 497 may vary from term to term, a student may repeat any of these courses for credit but may not count more than 6 hours toward his English core.

COURSE OFFERINGS

E 487G Modern British and American Poetry (3-0-3) (F/S). A study of the radical changes Eliot, Pound, Yeats, and others made in poetry's traditional aesthetic and thematic concerns early in this century. The course traces poetry's continuing metamorphosis into the present day. Prerequisite: Three credits literature of PERM/CHMN.

E 488G Methods and Theories of Literary Criticism (3-0-3) (S). A detailed study and application of major critical methods and theories. Prerequisite: E 593 or PERM/CHMN.

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

E 501 The Teaching of Writing (3-0-3) (F/S). Theories and methods of teaching writing for experienced teachers. Special emphasis on new discoveries about the learning process in writing courses and on the teacher's role in helping individual students. Prerequisite: E 500 and teaching experience or PERM/CHMN.

E 505 Linguistics (3-0-3) (F/S). Modern linguistic theories and their application to literature and teaching English. An examination of how various grammatical models represent the complexities of language sound, sequence, and structure. Application of theory to language at work. Prerequisite: E 560 and LI 305 or equivalent or PERM/CHMN.

E 510 Major Author (3-0-3) (F/S). A consideration of major and minor artistic creations of an author with attention devoted to major influences on the writer and his influence on others. Aspects of investigation include the life of the author and its relation to the work, the society and cultural context of the times, his place and stature in the genres in which he worked, his use or disregard of tradition, as well as an investigation of contemporary criticism and its evaluation since his time. Prerequisite: E 500 or PERM/CHMN.

E 520 Genre (3-0-3) (F/S). A study of a well-defined literary category, such as novel, short story, or tragedy. Emphasis on representative texts in order to discover the evolution of a specific literary genre while at the same time establishing its typical features. Prerequisite: E 500 or PERM/CHMN.

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

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

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

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

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

E 581 Literature for Use in Junior and Senior High Schools (3-0-3) (F). A literary content course for prospective teachers of secondary school English. Primary emphasis on critical readings of literature and its relevance to secondary school. Secondary emphasis on methods of analysis appropriate to students. All genres as well as classic and popular authors. Prerequisite: E 102, two literature courses or PERM/CHMN.

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

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

MASTER OF ARTS, SECONDARY EDUCATION, History Emphasis

I. Admissions
See Graduate School Information, page 126.

II. Program Requirements
The Master of Secondary Education with a History Emphasis will consist of a minimum of 33 hours planned by the student and his/her advisory committee from the following alternatives.

A. 33 Hours with Thesis
1. Secondary Education Core 6
2. History Emphasis 12
3. Free Electives 9
4. Theses (defended orally) 9
5. Written exam on work taken in the History Department toward the degree

B. 33 Hours with Project
1. Secondary Education Core 6
2. History Emphasis 15
3. Free Electives 9
4. Project 3
5. Written or oral examination covering aspects of project and coursework taken in the History Department toward the degree

C. 36 Hours
1. Secondary Education Core 6
2. History Emphasis 18
3. Free Electives 12
4. Written examination covering coursework taken in the History Department toward the degree

III. Course Offerings

A. Required Courses
1. Historians and Historical Interpretation
   HY 500 3
2. History in the Secondary Schools
   HY 502 3
3. History of Western Thought HY 516-511 3
4. Sources of American Values HY 520 3
5. Seminar HY 580, 581, 582 6
6. Secondary Education Core TE 560 6

B. Elective Courses
Additional courses from History or allied fields as planned by the student and his/her graduate committee to meet program requirements.

C. Additional Information
1. Some students may be required to remove deficiencies before admission to candidacy. Students with strong undergraduate history may apply to challenge, improve, or replace parts of the emphasis requirement.
2. Students electing a double emphasis will draw up their program in consultation with their committee.
3. A minimum of 6 hours in 400G History courses may be substituted for Seminar work in the History offerings.

COURSE OFFERINGS

HY — HISTORY COURSES

GRADUATE

HY 234 Us United States Social and Cultural History (3-0-3) (F/S). Selected themes from colonial times to the present. The nature and meaning of the national experience, customs, traditions and intellectual developments. HY 151, 152 recommended.

HY 425G European Diplomatic History 1871—PRESENT (3-0-3) (F/S). Major problems in diplomatic history since 1871: search for security, unification of Germany, potential collapse of Ottoman Empire, imperialism in Africa and Asia, alliance systems, origins of world wars one and two, cold war and merging of European diplomacy into world diplomacy. Alternating years.

HY 500 Historians and Historical Interpretation (3-0-3). A study of major historians and schools of historical interpretation from Ancient Greece to the twentieth century. Discussion concentrates on written history and the problems of interpretation. Oral and written participation and a major paper are required. Prerequisite: Admission to graduate program or PERM/CHMN.

HY 501 History of Science (3-0-3). A survey of man's efforts to understand the natural world from the ancient world to the present including pre-scientific assumptions, the evolution of science since the 16th century, and the development of modern scientific thought. May be taken for either HY or GS credit, but not for both.

HY 592 Teaching History in Secondary Schools (3-0-3). An inquiry into the philosophy of history, a consideration of the relationships of the discipline to other social studies and other fields of knowledge, and a survey of various techniques available to teachers of history at the secondary school level. Prerequisite: Admission to the graduate program or PERM/CHMN.

HY 510 History of Western Thought (3-0-3). History of Western Thought beginning with the Ancient Near East to the Renaissance and Reformation. A study of intellectual and cultural trends reflected in Western religious and philosophical literature. Prerequisite: Admission to the graduate program or PERM/CHMN.

HY 511 History of Western Thought (3-0-3). History of Western Thought from 1500 to the present. A study of intellectual and cultural trends reflected in Western religious and philosophical literature. Prerequisite: Admission to the graduate program or PERM/CHMN.

HY 520 Sources of American Values (3-0-3). The origins of American thought and culture, the Puritan mind, enlightenment ideas, the intellectual climate of the new nation, and an exploration of American values on the eve of the Civil War. Lasalle's faith and the American system thereafter and the reaction to industrialism. Prerequisite: Admission to the graduate program or PERM/CHMN.

HY 580 Graduate Seminar in U.S. History (3-0-3). A study of the principal themes or problems within well-defined periods of particular fields of U.S. History. Emphasis will be

139


GRADUATE SCHOOL

placed on reading, discussion, writing and research. Reports and discussion on various aspects of the controlling subject will be performed by the students with the assistance of the instructor. Prerequisite: Admission to the graduate program or PERM/CHMN.

HY 591 Graduate Seminar in European History (3-0-3). Critical analysis of source materials and historical literature on a topic of restricted scope in European history. Prerequisite: Admission to graduate program or PERM/CHMN.

HY 592 Graduate Seminar in Third World History (3-0-3). Critical analysis of source materials and historical literature on a topic of restricted scope in Third World history. Primary emphasis will be placed on reading, discussion, writing and research. Reports and discussion on various aspects of the controlling subject will be performed by the students with the assistance of the instructor. Prerequisite: Admission to graduate program or PERM/CHMN.

HY 593 Research and Thesis (6 credits).

HY 594 History Seminar (3 credits).

M. The Master of Science, Secondary Education, Mathematics Emphasis

A. The Master of Science in Secondary Education with a Mathematics Emphasis may be obtained through any of the following 3 options:

1. The 30 Hour Examination Option
   a. Secondary Education Core ............................................ 6
   b. Mathematics Sequence & Seminar ..................................... 9
   c. One Mathematics Course exclusive of M 503, 504, 561 ............ 3
   d. Mathematics Electives .................................................. 6
   e. Free Electives ......................................................... 6
   f. A written exam over Mathematics coursework
   g. An oral exam over all coursework included 
in the student’s program.

2. The 33 Hour Project Option
   a. Secondary Education Core ............................................ 6
   b. Mathematics Sequence, Mathematics Seminar and M 591 ........ 12
   c. Mathematics Electives .................................................. 6
   d. Free Electives ......................................................... 9
   e. A written exam over Mathematics coursework
   f. The 33 Hour Thesis Option is the same as the Project Option except that M 591 is replaced with M 593

B. Mathematics Requirements

1. Required Courses
   a. Seminar in the Mathematics department. Enrollment in graduate courses has been such that completion dates for this program cannot be guaranteed.

2. Elective Courses
   a. Modern Algebra M 541, 542 or M 501, 502 or M 503, 504, 561
   b. Mathematics Electives .................................................. 6
   c. Seminar in the Mathematics department. Enrollment in graduate courses has been such that completion dates for this program cannot be guaranteed.

C. Additional Information

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

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

3. Students considering this program should consult with the Chairman of the Mathematics department. Enrolment in graduate courses has been such that completion dates for this program cannot be guaranteed.

*The graduate level courses to support this program will be regularly offered in the fall and spring semesters when funded by the Legislature.

COURSE OFFERINGS

M — MATHEMATICS COURSES

GRADUATE

M 406g Theory of Functions of a Complex Variable (2-0-3). Complex numbers, functions of a complex variable, analytic functions, infinite series, integration, conformal mapping. Prerequisite: M 206 or 212.

M 431g Probability and Statistics (3-0-3) (F/S). Basic concepts of probability theory, sample spaces, random variables, mathematical expectation, central limit theorem, estimation and testing of hypotheses. Prerequisite: M 206 or 212.

M 455g Linear Programming (4-0-4) (S). Simplex algorithm, duality theory, postoptimality problems, and transportation problems. Prerequisite: M 301. Odd numbered years.

M 501-502 Real Analysis I, II (3-0-3). The real number system. Set theory and metric spaces. Sequences and series. Continuity of real functions. Differentiation. The Riemann-Stieljes integral. Sequences and series of functions. Prerequisite: M 314 or PERM/INST.

M 503 The Teaching of Algebra (3-0-3). Contemporary approaches to teaching secondary school algebra: treatment of selected topics in modern algebra; methods and materials; research relevant to the teaching of algebra. Prerequisite: M 302.

M 504 The Teaching of Geometry (3-0-3). Contemporary approaches to teaching secondary school geometry; treatment of selected topics in geometry; methods and materials; research relevant to the teaching of geometry. Prerequisite: M 311.

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

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

M 541-542 Abstract Algebra I, II (3-0-3). Mappings, the integers, groups, sub-groups, morphisms, rings, integral domains, polynomial rings, fields, field extensions. Prerequisite: M 501, 502 or PERM/INST.

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

M 551 Mathematics for Operations Research (4-0-4) (F/S). The mathematics techniques useful in solving practical problems involving several variables. Linear systems, matrices, linear programming with simplex method, differential and integral calculus with emphasis on applications in management decision situations. Prerequisite: PERM/INST.

M 554 Mathematical Modeling (3-0-3) (SU). Digital computer programming in FORTRAN OR BASIC. Difference equations, their solutions, stability, equilibrium values, and their use in computer simulation. Applications to demography and economics. Prerequisite: PERM/INST.

M 571 Mathematics Curriculum: 7-12 (3-0-3). The history of the 7-12 mathematics curriculum; context, special problems, and trends in mathematics programs; organization of the curriculum; study of reports and recommendations; curriculum development projects. Prerequisite: One year’s experience in teaching junior or senior high mathematics.

M 591 Project (May be taken for 3 to 6 credits). A project may include, but is not limited to, a library research paper, educational research or written curriculum with teaching materials. The student must be admitted to candidacy.

M 593 Thesis (May be taken for 3 to 8 credits). Original mathematical research or a new approach to an old problem. Prerequisite: M 591 or permission of the Mathematics Department. The student’s advisor will consult with the student and his committee to meet program requirements.

M 598 Seminar in Mathematics (3 credits). The content will vary within a format of student presentation and discussion of relatively advanced mathematical topics selected from texts or mathematical journals. This will not be a seminar in mathematics education.

MASTER OF ARTS, SECONDARY EDUCATION, Music Emphasis

ADMISSIONS AND PROGRAMS:

A. The Master Degree in Secondary Education, Music Education Emphasis is designed to meet the needs of the practicing junior high or high school Music specialist. While teaching experience is not necessary in order to begin work on this degree, any applicant for the degree must either be currently certified as a secondary school Music specialist, or agree to begin the process toward attaining this certification while working on the degree. Before advancement to candidacy can be granted, the student ordinarily must show eligibility for certification by the State of Idaho (or any other state). Admission will be granted to applicants who hold a Bachelor’s degree from an accredited college or university, and who give promise of meeting the standards set by the Music Department.

B. All regular and provisional graduate students will be required to take diagnostic examinations during the first part of their first semester in attendance. The purpose of these examinations is to determine the student’s strengths and weaknesses so that the student and his committee will be able to set up a program according to the student’s needs. The examinations will be in the areas of Music Education, Music Theory, Music History and performance. The results of these examinations will be interpreted by the faculty of the Music Department. The student’s advisor will consult with the student about action towards remediating any deficiencies. Any undergraduate course used to make up the deficiencies will not count toward the Master degree. A student who has any deficiencies will be granted Provisional Status only in the graduate program. When all deficiencies are
removed, the student may then seek Regular Status. A description of the material covered on these examinations is available from the Music Department.

**REQUIREMENTS**

A. Required Courses

1. Introduction to Research Materials in Music Education MU 503  
   Designed for either the non-specialist or specialist in music; this course will survey the role which music has played in the development of American culture. Among the topics covered will be early New England music, music of the Blacks, Indians, and other ethnic groups. Social and historical interrelationships with music will be examined and discussed.

2. New Developments in Music Education MU 570  
   Designed for the secondary school music specialist, this course will provide an introduction to the basic research literature within music education, interpretation of research findings, basic research techniques, problems in music educational research, and a review of literature pertinent to students' major area of interest will be included.

3. Additional coursework or Culminating Project MU 591  
   The graduate level courses to support this program will be regularly offered in the fall and spring semesters when funded by the legislature.

B. Elective Courses:

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

   *The graduate level courses to support this program will be regularly offered in the fall and spring semesters when funded by the Legislature.*

**MC — MUSIC, PRIVATE LESSON PERFORMANCE STUDIES**

**GRADUATE**

Students will be assigned on the basis of an audition. Performance, Technical Study, Musical Interpretation, Literature, and Teaching Technique will be stressed.

All 500 level MC courses are repeatable for credit up to a maximum of 6 credits. See undergraduate Private Lesson Performance Studies course numbering system for explanation of course numbers.

- **MC 501** (0-5-1), **MC 512** (0-5-2) Woodwind instruments private lessons.
- **MC 511** (0-5-1), **MC 512** (0-5-2) Brass instruments private lessons.
- **MC 521** (0-5-1), **MC 522** (0-5-2) Percussion instruments private lessons.
- **MC 531** (0-5-1), **MC 532** (0-5-2) Percussion instruments private lessons.
- **MC 541** (0-5-1), **MC 542** (0-5-2) Keyboard instruments private lessons.
- **MC 551** (0-5-1), **MC 552** (0-5-2) Fretted instruments private lessons.
- **MC 561** (0-5-1), **MC 562** (0-5-2) String instruments private lessons.

**COURSE OFFERINGS**

**ME — MUSIC ENSEMBLE**

- **ME 510** Choral Ensemble (0-2-1)  
  A general chorus open to all interested students. The format of the classes will be directly related to the size of the enrollment; i.e., choir, chamber ensemble or collegeum musicum.
- **ME 520** Instrumental Ensemble (0-V-1)  
  A performing group or groups will be formed, depending on the size of enrollment, such as trios, quartets, band or orchestra. Opportunities to perform ensemble music of various kinds will be given. Emphasis will be placed on techniques of ensemble playing, intonation, phrasing, articulation and proper performance practice of ensemble literature.

**MU — MUSIC, GENERAL**

- **MU 501** History of Music in the United States (3-0-3)  
  Designed for either the non-specialist or specialist in music; this course will survey the role which music has played in the development of American culture. Among the topics covered will be early New England music, music of the Blacks, Indians, and other ethnic groups. Social and historical interrelationships with music will be examined and discussed.

- **MU 503** Introduction to Research Materials in Music Education (3-0-3)  
  Designed for the secondary school music specialist, this course will provide an introduction to the basic research literature within music education, interpretation of research findings, basic research techniques, problems in music educational research, and a review of literature pertinent to students' major area of interest will be included.

- **MU 505** Seminar in Choral Music: Performance Practices and Styles (3-0-3)  
  Designed for the general classroom teacher or music specialist, the course deals with old and new approaches to teaching music in the classroom, teaching materials, current research on problem singers, creative musical activities, and the development of music reading skills. Prerequisite: MU 371 or PERM/INST.

- **MU 510** New Developments in Music Education (3-0-3)  
  Designed for the general classroom teacher or music specialist, the course deals with old and new approaches to teaching music in the classroom, teaching materials, current research on problem singers, creative musical activities, and the development of music reading skills. Prerequisite: MU 371 or PERM/INST.

- **MU 511** 20th Century Musical Studies (3-0-3)  
  A study of 20th century compositional techniques and performance practices through analyses, discussion of aesthetics, listening, performance, and creative writing. Contemporary techniques and their notation, such as quartal harmonies, serialization, improvisation, electronic music, microtones, and multi-media, will be explored and their application to the secondary school music classroom will be discussed.

- **MU 545** Opera Theatre (0-5-1)  
  Designed for primary classroom teachers and their students or music specialists in the secondary school, this course will provide an introduction to the study of vocal music of the Baroque through the present era. Particular attention will be paid to performance practices of ornamentation, style, tempo, dynamics, and techniques. Band transcriptions also included.

- **MU 571** Advanced Conducting (3-0-3)  
  Designed for secondary music teachers, this course provides opportunity to discover and analyze technical conducting problems, both instrumental and choral. In music of various historical eras, which forms a significant part of the secondary school repertoire.

- **MU 572** Listening and Singing Experiences for the Elementary School (3-0-3)  
  Designed for the general classroom teacher or music specialist, the course deals with the study of singing and listening materials relevant to classroom music. Sequential curriculum plans will be developed for singing and listening experiences. Prerequisite: MU 371 or PERM/INST.

- **MU 573** Advanced Methods and Techniques for the Choral Instructor (3-0-3)  
  A study of causes and solutions for problems occurring in the choral rehearsal. Areas to be covered include vocal methods and techniques, organization and repertoire planning.

- **MU 574** Advanced Methods and Techniques for the Elementary School Instructor (3-0-3)  
  A study of causes and solutions for problems occurring in the choral rehearsal. Areas to be covered include vocal methods and techniques, organization and repertoire planning.

- **MU 575** Administration of School Music (3-0-3)  
  A seminar in problems of music supervision and administration covering areas such as budget, scheduling, curriculum, personnel and philosophy.

- **MU 591** Culminating Project (0-V-3)  
  Details for the culminating project can be found in requirements for masters degree in secondary education, music emphasis.

- **MU 593** Thesis (0-V-6)  
  A scholarly paper embodying results or original research which are used to substantiate a specific view.
OBJECTIVES OF VOCATIONAL EDUCATION

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

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

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

3. To become contributing members of the social, civic, and industrial community.

CURRICULUM CHANGES

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

ADMISSIONS REQUIREMENTS

Students who plan to enter the School of Vocational Technical Education, Boise State University, must complete:

1. Boise State University application—Admissions Office ($10.00 matriculation fee required).

2. Personal interview with a School of Vocational Technical Education counselor.

3. $75.00 registration advance security deposit to the School of Vocational Technical Education. This is applied to your fees upon registration and is refundable only with justifiable cause. The deadline to apply for the refund is two weeks before classes begin.

4. The General Aptitude Test Battery (GATB) may be required. There are a limited number of students that can be accepted in all programs so all admission requirements should be completed early.

When steps 1 and 2 have been completed and you have been accepted by one of the Vocational Technical counselors, you are eligible to pay the $75.00 advance deposit. You will then be issued a Permit to Register. You are not in a program until steps 1 through 3 are completed.

High school graduation or a GED is required in some programs and preferred in the others. All non-high school graduates must be out of high school one complete semester.
This program has been accredited by the Joint Review Committee on Education for the Surgical Technician, sponsored by American Medical Association Council on Allied Health Education.

ADMISSION

Entrance requirements: high school graduation or pass 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 a selection committee is necessary before admission.

Classroom work includes instruction in basic sciences of Anatomy and Physiology, Microbiology, Sterilization, Aseptic Technique, and Instruction in the needs of humans in surgery, with emphasis on the surgical 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—Part II of the Catalog.

PRACTICAL NURSING

11-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 11 months in length and consists of hospital and long term care nursing experiences and classroom instruction. A certificate is awarded upon graduation from the course. Students are then eligible to take the state licensing examination, which, if passed, qualifies them to practice as licensed practical nurses. The program is approved by the Idaho Board of Nursing.

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

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

ADMISSION

Entrance requirements: high school graduation or pass 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 applicant will be interviewed by a committee. Twenty four students will be selected for the Boise program and ten students selected for the Nampa program.

DEPARTMENT OF HEAVY TECHNOLOGIES

Department Head: Gary Aramburri; Air Conditioning: Tucker; Mechanical Plant Maintenance: Allen; Machine Shop: Glassen, Wertman; Utility Lineman: Chosie; Welding: Aramburri, Baldner, Ogden.

AIR CONDITIONING, REFRIGERATION AND HEATING

11-Month Program

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

SUBJECTS

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

COURSE OFFERINGS

RH AIR CONDITIONING, REFRIGERATION AND HEATING

RH 121-122-123 Air Conditioning, Refrigeration and Heating Laboratory (0-25-10). These courses provide the laboratory application of principles covered in the Theory classes. Skills will be developed and practice will be provided which will be needed by the service person. Different phases of air conditioning, refrigeration and heating will be covered.

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

RH 282 Occupational Relations (2-0-2). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining, and advancing in employment. One semester course.

MECHANICAL PLANT MAINTENANCE 9-Month Program

The Mechanical Plant Maintenance Program provides the student with laboratory experiences, practical theory, and related instruction. The courses include mathematics, basic electricity, blueprint reading, hydraulics, pneumatics, welding, machine shop procedures and troubleshooting.

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

SUBJECTS

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Maintenance Lab PM 121-122</td>
<td>10</td>
</tr>
<tr>
<td>Mechanical Maintenance Theory PM 141-142</td>
<td>5</td>
</tr>
<tr>
<td>Occupational Relationships PM 262</td>
<td>2</td>
</tr>
</tbody>
</table>

COURSE OFFERINGS

PM — MECHANICAL PLANT MAINTENANCE

PM 121-122 Mechanical Plant Maintenance Laboratory (0-25-10). The sequence of courses provides the laboratory application of principles covered in theory classes. Fall semester coverage will concentrate on basic welding for the maintenance field, including oxyacetylene, steel electrodes, M.I.G., and T.I.G. Spring semester emphasizes beginning fundamentals of maintenance machine shop operations using the lathe, milling machine, and other equipment found in the machine shop. Related topics will be included.

PM 141-142 Mechanical Plant Maintenance Theory (0-10-5). These courses include mathematics, basic electricity, pneumatics, hydraulics, blueprint reading, safety, troubleshooting, and other related technologies.

PM 282 Occupational Relations (2-0-2). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining, and advancing in employment. One semester course.

MACHINE SHOP

18 Month Program

Boise State offers a specialized Machine Shop program for students desiring to become machine tool operators. Students receive instruction in the set up and use of all basic machines including engine lathes, milling machines, planers, shapers, grinders and benchwork connected with them. Students will also learn about the many different materials and processes used by industry. They will receive classroom instruction and practical experience in the use of various percussion, measuring and testing equipment now being used by metal manufacturing industries.

FRESHMAN YEAR:

<table>
<thead>
<tr>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine Shop Laboratory MS 101, 102</td>
<td>8</td>
</tr>
<tr>
<td>Communication Skills MS 111</td>
<td>8</td>
</tr>
<tr>
<td>Rel. Blueprint Reading MS 124, 125</td>
<td>3</td>
</tr>
<tr>
<td>Related Basic Math MS 132</td>
<td>3</td>
</tr>
<tr>
<td>Related Theory MS 151, 152</td>
<td>3</td>
</tr>
<tr>
<td>Occupational Relationships</td>
<td>2</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR:

<table>
<thead>
<tr>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adv. Machine Shop Lab MS 201</td>
<td>8</td>
</tr>
<tr>
<td>Blueprint Reading &amp; Layout MS 221, 222</td>
<td>2</td>
</tr>
<tr>
<td>Related Adv. Math MS 231, 232</td>
<td>4</td>
</tr>
<tr>
<td>Adv. Machine Shop Theory MS 251, 252</td>
<td>2</td>
</tr>
</tbody>
</table>

COURSE OFFERINGS

MS — MACHINE SHOP

MS 101, 102 Machine Shop Laboratory (0-20-8). This sequence covers safety, shop practice, work habits, and production rates. Also included is the set-up and operation of the lathes, milling machines, drill presses, shapers, power saws, grinders, the use of special attachments, bench work, and layout.

MS 111 Communication Skills (3-0-3). To manage symbols and discover meaning, candidly, clearly, and exactly is the performance objective of communication skills. As a trainee, worker, citizen, and human being, regardless of preparation and background, each student is provided an opportunity through individual and group projects to identify and resolve communication issues relevant to his/her own need and career.

MS 124-125 Related Basic Math (2-0-2). A study of fractions, decimals, metric system and basic math processes such as addition, subtraction, division and multiplication as applied to the machine shop.

MS 151-152 Related Theory (3-0-3) (F). (3-0-3) (S). Machining processes and their application as practiced in the laboratory course. Safety and sound work habits are emphasized in all phases of instruction. The set-up, care and maintenance of the machine tools as well as the theory of measuring tools, metal cutting, selection of metals, tool design, coolants, allowance and tolerance, and production methods. Related mathematics as applied to set-up, indexing, benchwork, speeds and feeds, layout, measuring increments, and metallurgy is reviewed. Prerequisite: for MS 151 is MS 150.

MS 201, 202 Advanced Machine Shop Laboratory (0-20-8). The set-up and operation involving manipulative development and increase skill in the use of lathes, milling machines, drill presses, shapers, power saws, tools and cutting fluid, surface grinder, heat treating, hardness testing, layout, inspection, tracer lathe, and numerical control mill set-up, operation and programming. Prerequisite: MS 102.

MS 221-222 Blueprint Reading and Layout for the Machinist (2-0-2). Three dimensional drawing and hand sketching of mechanical devices will be covered.

MS 231-232 Related Adv. Math (6-0-4). A study of trigonometry and geometry as applied to shop problems and the mathematics required for numerical control machining. A study of scientific principles required in the machinist trade is provided.

MS 251-252 Adv. Machine Shop Theory (2-0-2). The composition of grinding wheels, materials used and heat treatment of metals, the programming of numerical controlled machines, as applied to the machinist. Also basic foundry processes are studied.

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

ELECTRICAL LINEMAN

11-Month Program

The Electrical Lineman Program provides the student with the best and most complete basic preparation possible in overhead and underground construction and maintenance procedures. Centering around a basic program of performance-based objectives, instructional materials and field experiences, the program provides the student with the necessary skills and knowledge needed as a firm foundation in this rapidly advancing field.

In the laboratory experience with equipment such as transformers, oil circuit breakers, switches, materials and pole line hardware, hot line tools, test equipment, bucket truck, line truck, trencher/backhoe, and related equipment components, provides the student with "hands-on" experience permitting further and more concentrated advancement in these skilled areas.

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

**SUBJECTS**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lineman Lab EL 101-102-103</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Lineman Theory EL 151-152-153</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Occupational Relationships EL 262</td>
<td>2</td>
<td>—</td>
</tr>
</tbody>
</table>

**COURSE OFFERINGS**

**EL ELECTRICAL LINEMAN**

EL 101-102-103 Lineman Laboratory (0-25-10). The field operation provides actual "job type" experience for the student. Course content includes advanced climbing techniques, use of carbon arc equipment. Transformer and transformer banks, services, street lights, underground distribution design, construction and maintenance, troubleshooting both overhead and underground distribution, guys and anchors, conductor and insulator installation and maintenance, installation of primary protective and overcurrent equipment, installation of transformers and transformer banks, services, street lights, underground distribution design, construction, and maintenance. The emphasis is on the practical aspects of the craft, with an emphasis on safety.

EL 151-152-153 Lineman Theory (0-10-6). The theory portion of the program provides the student with a comprehensive background in the basics of electrical theory, power generation, distribution, transmission, distribution, materials identification and application, overcurrent and protective devices, construction techniques, design and specification, basic climbing, and core and personal protective equipment, hot stick use and care, operation and maintenance of vehicles and all related construction equipment.

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

**WELDING**

11-Month Program

The Welding Program provides the student with instruction, practical experience, and related theory in shielded metal arc welding (SMAW), oxy-acetylene welding and cutting (O/A), welding, oxygen-acetylene cutting of ferrous metals, plasma-arc cutting of non-ferrous metals, and the use of carbon arc cutting equipment. The first 9 months will be basic to intermediate welding. The summer session will be of a two-tract design. First, the design will permit students who need more time to satisfy requirements on performance-based objectives for the basic portion of the program; and, second, to permit the advanced students to further their skills, and to concentrate in more technical areas.

The program is designed to produce skilled workers in the areas of welding and blueprint interpretation as well as layout and fitting. The student will do all lab work based upon performance-based objectives. The student will utilize all tools and equipment in his trade with a continuing emphasis on safety.

**SUBJECTS**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab W 101-102-103</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Theory W 151-152-153</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Blueprint Reading W 121-122-123</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Communication Skills W 111</td>
<td>2</td>
<td>—</td>
</tr>
<tr>
<td>Occupational Relations W 262</td>
<td>2</td>
<td>—</td>
</tr>
<tr>
<td>W 101-102 Welding Laboratory (0-20-10).</td>
<td>17</td>
<td>18</td>
</tr>
</tbody>
</table>

**W — WELDING**

W 101-102 Welding Laboratory (0-20-10). The basic to intermediate portion to this program includes plasma-arc (SMAW) with various mild and low alloy steel electrodes, oxy-acetylene (O/A) welding and brazing, metallic inert gas (MIG) welding with solid and flux core, dual shield wire, oxygen-acetylene cutting of steel with automatic and manual equipment, plasma-arc cutting of non-ferrous types of metals, the cutting and various use of carbon arc equipment.

W 103 Welding Laboratory (0-20-10). For basic students to continue on tract and second tract for advanced students to work into advanced welding as in TIG, PIPE, and certification. This program will be open for the student who wishes to work in a more technical area.

W 111 Welding Communication (3-0-3) (F). To manage symbols and discover meaning of mechanical mechanisms.

**DEPARTMENT OF LIGHT TECHNOLOGIES**

**Department Head:** E. Allen Weston; **Electronic-Mechanical Service Technician:** Sellers; **Drafting:** Chandler, Leigh, Olson, Watts, Weston; **Electronics:** Dodson, Frost, LaRue, Macken; **Wastewater Technology:** Felton; **Business Machine Tech:** Jones.

**ELECTRONIC-MECHANICAL TECHNICIAN**

The Electronic Mechanical Service Technical Program provides for the individual who wishes to repair electronic or mechanical devices. The emphasis in this program is a basic mechanical and theory approach. Students entering into program have two options open to them before graduation. At the end of the freshman year they may choose Consumer Electronics or Business Machine Technology. During the sophomore year, the student will specialize in one of these two fields.

Students graduating from either field will receive an Associate of Applied Science degree.

**FRESHMAN YEAR:**

<table>
<thead>
<tr>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical Lab ES 101-102</td>
<td>4</td>
</tr>
<tr>
<td>Electronics Lab ES 103-104</td>
<td>2</td>
</tr>
<tr>
<td>Customer Relations ES 113</td>
<td>2</td>
</tr>
<tr>
<td>Small Business ES 132</td>
<td>3</td>
</tr>
<tr>
<td>Mechanical Theory ES 151-152</td>
<td>2</td>
</tr>
<tr>
<td>Electronic Theory ES 153-154</td>
<td>3</td>
</tr>
<tr>
<td>Related Electronic Math ES 130</td>
<td>3</td>
</tr>
</tbody>
</table>

**CONSUMER ELECTRONICS (OPTION)**

<table>
<thead>
<tr>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronics Lab ES 203-204</td>
<td>11</td>
</tr>
<tr>
<td>Applied Theory &amp; Shop Management ES 254</td>
<td>3</td>
</tr>
<tr>
<td>Digital Electronics ES 272</td>
<td>3</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR:**

<table>
<thead>
<tr>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES 113 Customer Relations (2-0-2)</td>
<td>3</td>
</tr>
<tr>
<td>ES 132 Small Business Math (3-0-3)</td>
<td>17</td>
</tr>
</tbody>
</table>

**W 151-152-153 Welding Theory (2-0-2).** The theory for the program covers all areas related to the lab portion as well as material identification, material strength, forming methods, material rigging and handling, and all aspects of safety.

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

**DEPARTMENT OF LIGHT TECHNOLOGIES**

**COURSE OFFERINGS**

**ES — CONSUMER ELECTRONICS**

ES 101-102 Mechanical Lab (0-10-4). These courses deal with the adjustment and repair of mechanical mechanisms.

ES 103-104 Electronics Lab (0-5-2). Deals with the use of electronic test equipment and the testing of circuits developed for the understanding of theory. Safety is stressed.

ES 113 Customer Relations (2-0-2) (F). Course is directed to enable a student to become skilled in the methods necessary to effectively deal with the public and in job getting skills. One semester course.

ES 132 Related Electronic Math (3-0-3). Basic mathematics through Algebra required to understand the electronic theory.

ES 132 Small Business Math (3-0-3) (S). The math and record keeping necessary to run a small business.

ES 151-152 Mechanical Theory (0-5-2). This course designed to provide basic mechanical principals, cleaning and shop practices.

ES 153-154 Electronic Theory (0-5-3). These courses are the basic theory of R.C.L. and diode inactive circuits and transistor vacuum tube and IC active circuits.

ES 203-204 Electronics Lab (0-25-11). These courses will cover the actual repair of domestic electrical/electronic equipment.

ES 253-254 Applied Theory and Shop Management (3-0-3). This course is designed to provide theory on consumer products such as color television, radio, and stereo equipment preparatory to the lab situation.

ES 271-272 Digital Electronics (3-0-3). This course is a study of all the logic gates and trouble shooting techniques.
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 preparation. The student will be prepared in basic electronics, testing procedures, and maintenance techniques for manual, electric, and electronic business machines. Prerequisite: Electronic-Mechanical Service Technician one year Freshman course.

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

COURSE OFFERINGS
BM — BUSINESS MACHINE TECHNOLOGY

BM 251-252 Adv. Business Machine Laboratory (0-16-7). A self-paced workshop where the 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 micrometers and oscilloscopes. Prerequisite: ES 101-102.

BM 251-252 Adv. Business Machine Theory (0-10-6). This is a hands on type course in which the student is taught the basic concepts of business machines including: adders, calculators, copy machines, electronic business machines and duplicator processes with trouble-shooting techniques. Also offered are shop management and related selling techniques. Prerequisite: ES 91-102.

PRE-TECHNICAL
This is a one-semester pre-technical sequence for those students who lack the recommended prerequisite courses deemed necessary to compete 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.

COURSE OFFERINGS

PT — PRE-TECHNICAL

PT 010 Blueprint Reading and Basic Mechanical Drawing (5-5-3). An introductory course in blueprint reading, sketching and drafting methods and procedures.

PT 020 Introduction to Technical Communications (3-0-3). A survey course of communication systems, use of technical libraries, forms, reports and technical language, word usage, spelling and proper form are emphasized.


PT 040 Science Survey (5-0-4). Review of science as related to business and industry with practical problems and applied solution.

PT 050 Technical Orientation (3-0-1). A survey course of business and industry utilizing guest speakers, field trips and special reports.

DRAFTING TECHNOLOGY
This curriculum is organized to provide engineering departments, government agencies, consulting engineers and architectural firms with a technician well versed in the necessary basic skills and knowledge of drafting. The student is required to develop and maintain the same standards and techniques used in firms or agencies that employ draftsmen. All courses are taught each semester, so that students may enter at the beginning of any regular semester.

First Semester
Drafting Lab and Lecture DT 101 4
Communication Skills DT 111 3
Mathematics DT 131 5
Sciences DT 141 3
Manufacturing Processes DT 153 2

Second Semester
Drafting Lab and Lecture DT 102 4
Communication Skills DT 112 3
Introduction to Surveying DT 122 3
Math DT 132 4
Science DT 142 3
Construction Codes DT 172 2

Fourth Semester
Drafting Lab and Lecture DT 202 4
Descriptive Geometry DT 221 3
Applied Mathematics DT 231 3
Statics DT 241 or Strength of Materials DT 242 4
Design Orientation DT 253 4
Occupational Relationships DT 262 2

VOCATIONAL-TECHNICAL SCHOOL
VOCA TIONAL-TECHNICAL SCHOOL

DT 261 Graphics (2-0-2) (F). Introduction to graphic presentation methods used in industry, such as isometric and perspective rendering, charts, graphs and pictorial representations. (Open to non-drafting technology majors—space permitting).

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

DT 263 Specialized Graphics (3-0-3). An intensive study of perspective and rendering as used in industrial illustration, architectural rendering and civil engineering graphics. Lecture-laboratory. Prerequisite: DT 261 Graphics. (Open to non-drafting technology majors—space permitting).

ELECTRONICS TECHNOLOGY

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

1ST 2ND
FRESHMAN YEAR: SEM. SEM.
Electronics Laboratory ET 101-102 ........................ 2 2
Digital Computer Programming ET 104 ........................ 2 3
Communication Skills ET 111-112 ........................ 3 3
Basic Electronics Math ET 131-132 ........................ 3 3
Introduction to Digital Electronics ET 161 ........................ 2 2
Electronic Theory ET 151-152 ........................ 5 5
Circuit Analysis ET 171-172 ........................ 3 3

1ST 2ND
SOPHOMORE YEAR: SEM. SEM.
Adv. Electronic Laboratory ET 201-202 ........................ 5 5
Advanced Electronic Math ET 231-232 ........................ 3 3
Advanced Electronic Science ET 241-242 ........................ 2 2
Advanced Electronic Theory ET 251-252 ........................ 4 4
Occupational Relationships ET 262 ........................ 2 2
Digital Electronics ET 271-272 ........................ 3 3
Digital Systems Design ............................................. 19 20

COURSE OFFERINGS

ET — ELECTRONIC TECHNOLOGY

ET 101 Electronics Laboratory I (5-10-2) (F). Experiments in direct current electronics. Study of resistance, dc circuit behavior, dc applications of capacitors and inductors, dc operation of transistor circuits, and characteristics of dc test equipment.

ET 102 Electronics Laboratory II (0-10-2) (S). Experiments in alternating current electronics. Study of reactance, impedance, ac circuit behavior, ac transistor circuits, ac circuit devices, and characteristics of ac test equipment. Prerequisite: ET 101.

ET 104 Fortran Computer Programming (2-0-2) (F). Course for electronics majors covering principles and procedures involved in construction of computer programs for problem solving. FORTRAN IV programming language is used as the basis for a student written programs which must be satisfactorily executed as a part of course requirements.

ET 111, 112 Communication Skills (3-0-3) (F/S) Objective: to enable students to use language effectively as a tool for logical thinking, problem solving, technical writing and speaking and understood in their major field of training.

ET 131 Electronics Mathematics I (5-5-0) (F). The number system, algebra and trigonometric functions, and plane geometry and trigonometry. Emphasis is placed on applications relating to electronics.

ET 132 Electronics Mathematics II (5-0-4) (S). Logarithms and exponents, complex numbers, vectors and vector mathematics, trigonometric functions and equations, sequences and series, and analytic geometry. Prerequisite: ET 131.

ET 151 Electronics Theory I (5-0-5) (F). Theory of direct current electricity, its behavior in dc circuits, resistance and physical properties contributing to resistance, dc current and voltage, dc circuit analysis, and physical properties of circuit components.

ET 152 Electronics Theory II (5-0-5) (S). Theory of alternating current electricity, its behavior in electric circuits, properties of reactance and impedance, ac circuit analysis, and ac and dc circuit design. Prerequisite: ET 151.

ET 161 Introduction to Digital Electronics (2-0-2). Introduction to the binary numbering system including addition, subtraction, elementary boolean algebra, and Karnaugh maps. Also, an introduction to digital electronics which will cover the basic; AND, OR, NAND, NOR and INVERT.

ET 171-172 Circuit Analysis (2-3-3). The purpose of this course is to immediately get the student into a study of Physics. This course advances to solid state electronic circuits as ET 151-152 progresses. Both semesters the student is expected to analyze, design, and report on circuits and problems he investigates.

ET 201-202 Advanced Electronic Lab (0-10-5). These courses follow the same description as ET 121-122 (Theory) but also cover the test, measurement, and calibration of those circuits studied during theory sessions.

ET 231, 232 Advanced Electronic Math (5-0-3). Differential and integral calculus is covered on a continuing basis both semesters. Starting with limits, basic differentiation, trigonometric functions, logarithmic functions and basic differential equations. Problems pertain to electronic circuits.

ET 241-242 Electronics Science (2-0-2). The application of the electrotechnics principles, to the measurements and control of the physical properties of heat, light, sound, etc. Prerequisite: ET 141.

ET 251, 252 Advanced Electronic Theory (5-0-4). 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 study includes an assembly of a group of I.C. s and discrete components to form complete electronic systems, radio frequency applications, and a sophisticated student project.

ET 262 Occupational Relations (3-0-2). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.

ET 271-272 Digital Electronics (3-0-3). Binary concepts, basic logic, Boolean algebra, counters, adders, basic computer circuits; second semester advanced concepts and analytical troubleshooting of digital devices. Prerequisite: ET 161.

ET 282 Digital Systems Design (3-0-3) (S). Utilization of digital logic constructs in the design of digital devices and systems. Study of basic digital concepts, flip-flops, counters, combinational and sequential logic, registers and memory devices, DA and AD converters, and basic microprocessor concepts with emphasis placed on design considerations. Elective. Prerequisite: ET 271, PERM/INST.

WASTEWATER TECHNOLOGY

11-Month Program

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

SUBJECTS

Wastewater Lab I WW 101 .............................................. 10 10
Wastewater Lab II WW 102 ............................................ — 10
Wastewater Treatment Plant Operations I WW 151 .................. 5 —
Wastewater Treatment Plant Operations II WW 152 ................. 5 —
Occupational Relations WW 262 ..................................... 2 —

SUMMER:

Plant Practicum WW 105 .............................................. — 8

COURSE OFFERINGS

WW — WASTEWATER TECHNOLOGY

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

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

WW 105 in Plant Practicum (0-5-0). Supervised experience in area wastewater facilities. Students gain experience in all phases of wastewater treatment in a variety of facilities and with several processes.

WW 151 Wastewater Treatment Plant Operations I (0-10-5) Introduction to wastewater treatment plant operations, including collection systems, pre-treatment primary sedimentation, aerobic and anaerobic digester operations. Related math, communication skills and chemistry.

WW 152 Wastewater Treatment Plant Operations II (0-10-5). Secondary treatment processes including trickling filter, ABF (aerobic Biological Filter) with greater emphasis on operation and maintenance. Process control. Plant process interaction, report writing, budget preparation and finance and related first aid safety.

WW 262 Occupational Relations (3-0-2). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.

DEPARTMENT OF
MECHANICAL TECHNOLOGIES

Department Head: Max Lamborn; Auto Body: C. Parke; Automotive Mechanics: Campbell, Hall, King, Mikeseell; Heavy Du
by Mechanics: Brownfield, Tillman; Parts Counterperson: Lamborn; Small Engine Repair: Schroeder; Agricultural Equipment Technology: Gaines.

**AUTO BODY**

11-Month Program

The Auto Body Program 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. 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 experience provides students with the necessary skills and knowledge for employment in the auto body trade and closely allied crafts. Credits in this course of study are not counted toward an academic degree.

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Body Lab AB 121-122-123</td>
<td>10</td>
<td>10</td>
<td>7</td>
</tr>
<tr>
<td>Auto Body Theory AB 141-142-143</td>
<td>7</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Occupational Relationships AB 262</td>
<td></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>17</td>
<td>12</td>
</tr>
</tbody>
</table>

**COURSE OFFERINGS**

**AB — AUTO BODY**

AB 121-122-123 Auto Body Laboratory (0-25-10)-(F)- (0-25-7)-(SU). The purposes of these courses are to develop the skills needed by an auto body repairman. Emphasis is placed on: orientation, safety rules, shop housekeeping, oxyacetylene welding, painting fundamentals, metal working, plastic and lead body filling, advanced painting processes, frame alignment, glass and panel replacement.

AB 141-142-143 Auto Body Theory (10-0-7)-(F) (8-0-5)-(SU). This course correlates with the auto body laboratory course. The theory of auto body repair and painting is covered. Mathematics and science necessary for and related to the trade is provided.

AB 262 Occupational Relations (2-0-2). Designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.

**AUTOMOTIVE MECHANICS**

11-Month Program

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

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Automotive Mechanics AM 100</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Electrical Systems and Fuel Systems AM 101</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Engines, Air Conditioning, and Steering AM 102</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Power Trains, Automatic Transmissions and Brakes AM 103</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Advanced Automotive Mechanics AM 104</td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Occupational Relations AM 262</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**COURSE OFFERINGS**

**AM — BASIC AUTOMOTIVE MECHANICS**

AM 100 Basic Automotive Mechanics (10-15-8) (8 weeks). Mathematics of the trade, safety practices, use and care of tools, introduction to automotive chemicals and fasteners, the scientific principles of machines, electricity, heat engines, hydraulic systems and gear systems. Principles are applied to the theory and construction of engines, electrical components, fuel system components, drive trains, suspensions and brakes. Students must satisfactorily complete all theory and laboratory assignments and pass a final examination to progress to intermediate automotive mechanics. Beginning students may enter directly into intermediate auto mechanics by passing the AM 100 challenge examination and being recommended by the program head.

**INTERMEDIATE AUTOMOTIVE MECHANICS**

In Intermediate Auto Mechanics students learn construction and repair procedures for automobile components using cars and mock ups. Emphasis is placed on the proper use of tools and test instruments. 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 (10-25-8) (8 weeks). This course provides experiences relating to the theory and construction to electrical and fuel systems used on modern cars. The diagnosis and repair of malfunctioning systems using the latest equipment is stressed. The course also stresses the industry accepted procedures for tune-up work.

AM 102 Engines, Air Conditioning, and Steering (10-25-8) (8 weeks). 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 and suspension repair and alignment.

AM 103 Power Trains, Automatic Transmission and Brakes (10-25-8) (8 weeks). The course includes the construction and repair of clutches, standard transmissions, propeller shafts, differentials and related equipment. Also included is the theory and repair procedures of automatic transmissions and the repair of both disc and drum brakes.

**ADVANCED AUTOMOTIVE MECHANICS**

AM 104 Advanced Auto Mechanics (10-25-8) (8 weeks). Students diagnose and repair autos under actual shop working conditions. Problems are encountered in autos provided by faculty, staff and others. Students may designate an area of special interest and be geared to a specialty. After completing course objectives a student may finish the requirement for graduation by meeting an appointment in an approved trade with his/her instructors permission. Graduation will then be based on the student's job performance.

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

**HEAVY DUTY MECHANICS—DIESEL**

11-Month Program

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

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diesel Mechanics Basic DM 101-151</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diesel Lab DM 102-103</td>
<td></td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Diesel Theory DM 152-153</td>
<td></td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Occupational Relationships DM 262</td>
<td></td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>17</td>
<td>15</td>
</tr>
</tbody>
</table>

**COURSE OFFERINGS**

**DM — HEAVY DUTY MECHANICS—DIESEL**

DM 101 Basic Heavy Duty Mechanics—Diesel (0-30-15). This course covers shop safety practices, use and care of tools, use of measuring devices, service manuals, basic principles of diesel and heavy duty gasoline engines, transmissions, power trains, cooling systems, diesel and gasoline engine fuel systems, electrical systems, suspension hydraulic and air brakes, clutches, steering, and basic welding. Students must satisfactorily complete all theory and laboratory assignments and pass a final examination to progress to intermediate heavy duty mechanics.

DM 102-102 Diesel Laboratory (8-20-10). This course provides the laboratory application of principles covered in basic and theory class. Instruction will be on shop units, general theory and measuring instruments, with some experience devoted to actual repairs on live units.

DM 152-153 Diesel Theory (5-0-5). A study of the design, construction, maintenance and repair of diesel and heavy duty gasoline engines. Shop safety, care and use of special tools, welding, transmissions and power trains, cooling systems, fuel systems, clutches, steering electrical systems, suspension and hydraulic and air brakes will be studied.

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

**PARTS COUNTERPERSON**

9-Month Program

The Counterperson Program is designed to provide the student with a series of learning experiences in all phases of the automotive parts business. Areas of concentration include index systems, invoices, customer relations, refunding procedures, and warranty adjustments. The use of catalogs, price sheets, and other related forms used in the parts industry will be covered.

<table>
<thead>
<tr>
<th>SUBJECTS</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course No. and Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parts Counterperson Lab PC 101-102</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Parts Counterperson Theory PC 151-152</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Related Basic Mathematics PC 131</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Occupational Relationships PC 262</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

**COURSE OFFERINGS**

**PC — PARTS COUNTER**

PC 101-102 Automotive Parts Laboratory (0-25-10). A parts store is established and operated in conjunction with the mechanical programs. Lab experience includes jobber and dealership operation.

PC 131 Related Basic Math (2-0-2). Basic arithmetic, fractions, decimals, discounting, and percentages are covered. Use of measuring tools is taught.

PC 151-152 Automotive Parts Theory (8-5-0). Through the use of catalogs, manuals, visual aids and class lectures, theory and application of procedures are taught. New methods such as microfilm readers are used in the theory portion of the class.

PC 262 Occupational Relations (2-0-2). Course is designed to enable a student to become skilled in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.
VOCATIONAL-TECHNICAL SCHOOL

SMALL ENGINE REPAIR (Recreational Vehicles) 9-Month Program

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

Credit in this course of study is not counted toward an academic degree.

SUBJECTS

SE — SMALL ENGINE REPAIR

SE 101 Small Engine Laboratory (0-25-14). Includes application and instruction in repair and overhaul of small engine units with emphasis on lawn and garden equipment.

SE 102 Small Engine Laboratory (0-25-14). Repair and maintenance of recreational vehicles, motorcycles, snowmobiles and outboard marine engines.

SE 141 Small Engine Theory (0-8-2). Provides a basic understanding of internal combustion engines and principles of two and four cycle engines. Fundamentals in carburetion and electrical systems are covered.

SE 141 Small Engine Theory (0-8-2). Includes instruction in power train, clutching, troubleshooting, fuel systems, tune-up, marine engines and chain saws.

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

AGRICULTURAL EQUIPMENT TECHNOLOGY 9-Month Program

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

COURSES

Agriculture Equipment Lab AE 101-102 ........ 10 10
Agriculture Equipment Theory AE 151-152 ........ 5 5
Occupational Relationships AE 262 ........ 2

COURSE OFFERINGS

Fall Spring

DAY CARE SUPERVISOR 18-Month Program

Graduates will be trained to assist with or operate a day care center which provides for physical care, emotional support and social development of children in groups.

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

DAY CARE ASSISTANT 1ST 2ND

SUBJECTS

SEM. SEM.

CC 151-152 Introduction to Child Development CC 101 3 3
CC 151-152 Introduction to Child Development CC 151 3 3
CC 111 Communication Skills CC 111 3 3
CC 111 Communication Skills CC 151-152 3 2
CC 141 Health and Care of the Young Child CC 171-172 3 3
CC 141 Health and Care of the Young Child CC 171-172 3 3
CC 181-182 Child Care Laboratory CC 181-182 3 3
CC 181-182 Child Care Laboratory CC 181-182 3 3

Contracted Field Experiences in Early Childhood Programs CC 125-126 1 1
Planning and Evaluation of Laboratory Experience CC 135-136 2 2

DAY CARE TEACHER/SUPERVISOR: 1ST 2ND

SUBJECTS

SEM. SEM.

Advanced Child Care CC 251-254 3 3
Child Care Center Supervision CC 231-232 3 3
Family and Community Involvement with Children CC 252 3 3
Occupational Relations CC 261 3 3
Feeding Children CC 241-242 3 3
Child Care Center Supervision CC 201-202 3 3
Contracted Practicum in Early Childhood Supvs. CC 225-226 2 2
Planning and Evaluation of Child Care Center Supervision CC 235-236 1 1

DEPARTMENT OF SERVICE OCCUPATIONS

Department Head: Joan Lingerfelt
Child Care: Lingenfelter, Gourley; Food Service: Hoff, Brown; Horticulture: Griffith, Oyster; Mid-Management: Knowiton, Lane, Scudder; Office Occupations: Adkins, Metzgar, Trumbo, McDonough.

CHILD CARE STUDIES (SUPERVISOR)

This curriculum is planned for people interested in working as teachers and/or as supervisors in private day care centers, play grounds, camps, nurseries, kindergartens, and child development centers.
munity child care settings. Individual contracts involving student, instructor, and cooperating agency to gain practical experiences in off-campus settings.

CC 231-232 Child Care Center Management (2-0-2)-(F) (5-0-3HS). Introduction to the record keeping, purchasing of supplies and equipment, and employer-employee relationships. Also includes licensing procedures required for day care centers.

CC 235-236 Planning and Evaluation of Child Care Center Supervision (1-0-1). Classroom lecture and discussion to include management of child care programs, methods for supervising 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.

CC 241-242 Feeding Children (5-0-3). Nutritional requirements of preschool children in child care centers. Students plan, purchase, prepare, and serve nutritious snacks and meals to children in the CC lab. Also emphasized will be handling food allergies, economics of good nutrition, and the development of positive mealtime attitudes.

CC 251-254 Advanced Child Care (5-0-3). A review of the history of child care, the modern day need for child care facilities in the U.S., and the types and kinds of centers available locally. Also included will be infant care in group situations, an introduction to kindergarten curriculum, and the qualifications of teachers and/or supervisors of child care centers.

CC 252 Family and Community Involvement with Children (5-0-3). History and dynamics of family interaction; review of cultural life styles. Emphasis will be placed on the need for establishing effective relationships with parents of children in child care centers and the community resources available to both parents and the center.

CC 261 Occupational Relations (2-0-2). Course is designed to enable a student to become skilled in dealing effectively with people in applying, getting, maintaining and advancing in employment. One semester course.

CHILD CARE STUDIES (ASSISTANT)
9-Month Program

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

FOOD SERVICE TECHNOLOGY
11-Month Program

The Food Service Technology Program is designed to meet the needs of students as they prepare to enter the food service industry. A variety of experiences and instructional strategies will be provided to cover the operations of fast foods, franchises, motel and hotel specialty houses and catering.

The theory and laboratory experiences will provide the students with the basic skills required for preparation of foods; appreciation of the standards of production, efficient use of time management; skills required in the development of quantity cooking; safe and efficient use of utensils and equipment; and the harmonious relationships that are expected in the industry.

Management practices are covered in the theory class and put into actual use. Included in this sequence of instruction are the procedures of storeroom management for purchasing, receiving, storing and utilization through menu planning. Rounding out the program the student is provided with office procedures, management of monies, food cost accounting and portion controls.

SUBJECTS

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food Service Lab FT 103-104-105</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Food Service Theory FT 143-144-145</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Occupational Relationships FT 262</td>
<td>15</td>
<td>17</td>
<td>15</td>
</tr>
</tbody>
</table>

COURSE OFFERINGS

FT — FOOD SERVICE TECHNOLOGY

FT 103-104-105 Food Service Lab (0-25-10). Correlate the theory with actual large quantity food service practice in all its phases in the field of the food service industry.

FT 143-144-145 Food Service Theory (0-10-5). Theory necessary to prepare a student to be a food service worker and develop an understanding of such principles as fundamental operations of basic nutrition, purchasing, storage, handling, safety, sanitation, handling of prepared foods, bus and set tables, wait on tables, dining room etiquette and dishwashing.

FT 262 Occupational Relations (2-0-2). Course is designed to enable a student to become effective in dealing effectively with people and for applying, getting, maintaining and advancing in employment. One semester course.

HORTICULTURE SERVICE TECHNICIAN—CURRICULUM (Landscape Construction and Maintenance)

The Landscape Construction and Maintenance Program has for its objective the preparation of students for employment in the landscape, nursery, floral, greenhouse, and fruit and vegetable industries. This includes both the production, sales and service areas of these major fields. It stresses the design of landscapes and related structures and construction including costs, production of nursery plants, plant propagation, and landscape planting. Graduates of the horticulture program qualify for positions in nursery and floral establishments as well as in parks, grounds, maintenance, and highway departments. They may also enter the fields associated with plant propagation, nursery sales, greenhouse work and sales in the related fertilizer and insecticide fields.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>COURSE</th>
<th>SEM.</th>
<th>SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horticulture Laboratory HO 101-102</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Communication Skills HO 111-112</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Related Basic Mathematics HO 131-132</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Related Basic Science HO 141-142</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Horticulture Theory HO 151-152</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>18</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>COURSE</th>
<th>SEM.</th>
<th>SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horticulture Laboratory HO 201-202</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Related Science HO 241-242</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Horticulture Theory HO 251-252</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Occupational Relationships HO 262</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Individual Project HO 271</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Credits and Collections MM 213</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Salesmanship MM 101</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

COURSE OFFERINGS

HO — HORTICULTURE SERVICE TECHNICIAN

HO 101 Horticulture Laboratory (0-15-5). Applying the related theory and content to the solution of practical problems in horticulture. Specific areas of application to include exploring occupational opportunities; identification of plants by the use of descriptive terms; identification of annual and perennial flowering plants; use of scientific names; classifications and botanical structures of plants, climatic and other factors limiting growth; plant propagation, greenhouse, flower, and plant production.

HO 102 Horticulture Laboratory (0-15-5). Applying the related theory and content to the solution of practical problems in horticulture. Specific areas of application include soils and soil amendments; construction of growing containers and houses; arrangements, implementation of entire greenhouse operation and bedding plant production; the use of insecticides; pesticides, etc., and precautions necessary during use.

HO 111, 112 Communication Skills (3-0-3) (F/S). Objective: to enable students to use language effectively as a tool for logical thinking, problem solving, technical writing and speaking required in their major field of training.

HO 121-122 Related Basic Mathematics (2-0-3). First semester—developing comprehension of the basic principles of mathematics. Specific areas include addition, subtraction, multiplication, division, fractions, denominate numbers, square root, measurement. Second semester—developing comprehension of the principles of related bookkeeping and accounting. Specific areas to be covered include: income and expense accounts, general journal and ledger, sales and purchases, inventories, payroll, etc.


HO 151-152 Horticulture Theory (7-0-5). First semester—developing comprehension, analysis and evaluation of: introduction into the field of horticulture, plant classification and growth, climate and other growth limiting factors, soil and soil amendments. Second semester—developing comprehension, analysis and evaluation of: plant propagation: growing containers; insect and disease control; and pesticide application.

HO 201 Horticulture Laboratory (0-15-5). Applying the related theory and content to the solution of practical problems in horticulture. Specific areas of application include preparing landscape drawings, making plants, building stone and wood structures, turf grass installation, and identification of trees and shrubs.

HO 202 Horticulture Laboratory (0-15-5). Applying the related theory and content to the solution of practical problems in horticulture. Specific areas of application include preparing landscape drawings, commercial, residential, park, Japanese gardens, turf grass installation and maintenance.

HO 241 Related Science (2-0-2). Developing comprehension of the scientific principles utilized in: plant growing and materials of construction.
FRESHMAN YEAR:

<table>
<thead>
<tr>
<th>Course</th>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101, 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Business GB 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Salesmanship MM 101</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Clothing and the Individual HE 107</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Textiles HE 109</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elements of Management MM 105</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Intro Financial Accounting AC 205</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Mid-Management Practicum MM 100</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Report Writing MM 209</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Principles of Retailing MM 202</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Principles of Advertising MM 203</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Supervision of Personnel MM 206</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>16</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR:

<table>
<thead>
<tr>
<th>Course</th>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer Marketing MM 201</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fashion Analysis and Design HE 111</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Speech Comm. CM 111</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Retail Buying MM 215</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mid-Management Practicum MM 100</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Report Writing MM 209</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Principles of Retailing MM 202</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Principles of Advertising MM 203</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Supervision of Personnel MM 206</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

MARKETING MID-MANAGEMENT

<table>
<thead>
<tr>
<th>Course</th>
<th>1ST SEM.</th>
<th>2ND SEM.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition E 101, 102</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Introduction to Business GB 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Business Mathematics/Machines OA 115</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Salesmanship MM 101</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Intro Financial Accounting AC 205</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Merchandise Analysis MM 102</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Mid-Management Practicum MM 100</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Elements of Management MM 105</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Speech Comm. CM 111</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>16</td>
</tr>
</tbody>
</table>

HIGH SCHOOL EQUIVALENCY

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

January, 1981
(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, Associate Professor; Director of Radiologic Technology ... (1978)
B.S., Medical College of Georgia; M.S., State University of New York at Buffalo.

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

ROBERT L. ALLEN, Instructor in Industrial Mechanics ... (1976)
Certificate B.A., 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.

ROBERT M. ANDERSON, Associate Professor of Mathematics ... (1970)
B.S., Utah State University; Ph.D., Michigan State University.

GARY D. ARAMBARRI, Department Head, Heavy Technologies, Instructor in Welding ... (1976)
Shop Ironworker Apprenticeship, Gate City Steel; Shop Superintendent, Gate City Steel, Pocatello.

LONNY J. ASHWORTH, Assistant Professor of Respiratory Therapy, Director, Respiratory Therapy Program ... (1977)
B.S., Boise State University.

E. BARRY ASMUS, Professor of Economics ... (1971)
B.S., M.S., Colorado State University; Ph.D., Montana State University.

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

ROBERT P. BEHLING, Associate Professor of Accounting and Data Processing ... (1974)
B.A., Colgate University; M.Ed., University of Portland; M.B.A., Boise State University; Ph.D., University of Northern Colorado.

JOHN L. BEITIA, Professor of Education ... (1970)
A.A., Boise Junior College; B.S., North Dakota State College; M.A., Idaho State University; Ed.D., Utah State University.

ELMO B. BENSON, Assistant Professor of Art ... (1975)
B.S., University of Idaho; M.S., University of Utah; Ed.D., University of Idaho.

ELTON BENTLEY, Assistant Professor of Geology/Geophysics ... (1980)
B.A., University of Montana; M.A., Ph.D., University of Oregon.

JOHN H. BEST, Professor of Music ... (1947)
B.S., University of Idaho; M.S., Colorado State College of Education; Cello Pupil of Elias Trustman and Joseph Wetzels; Composition and Theory Pupil of J. DeForest Cline and Henry Trustman Ginsburg; Suzuki Institute of Toho School, Japan.

JOHN PATRICK BIETEH, Professor of Education ... (1969)
B.A., St. Thomas College; M.A., University of California at Berkeley; Ed.D., University of Idaho.

DONALD B. BILLINGS, Professor of Economics ... (1972)
B.A., San Diego State College; M.A., Ph.D., University of Oregon.

JAMES C. BLANKENSHIP, Assistant Professor of Art ... (1977)
B.S., Utah State University; M.A., Brigham Young University; M.F.A., Otis Art Institute.

ANTHONY J. BOHNER, Assistant Professor of Management ... (1974)
B.A., Northwest Nazarene College; J.D., Willamette University.

ROBERT R. BOREN, Professor of Communication; Chairman, Department of Communication ... (1971)
B.A., M.A., Brigham Young University; Ph.D., Purdue.

KAREN J. BOUNDS, Associate Professor of Business ... (1973)
B.S.Ed., University of Alabama; M.Ed., University of North Carolina; Ed.D., North Texas State University.

NANCY C. BOWERS, Instructor in Practical Nursing ... (1975)
Diploma, St. Joseph’s Hospital School of Nursing; University of Arizona.

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

CLAIR BOWMAN, Associate Professor of Teacher Education ... (1976)
B.S., Indiana University; M.A., University of Colorado; Ed.D., Indiana University.

PHYLLIS E. BOWMAN, Assistant Professor of Physical Education ... (1970)
A.A., Weber State; B.S., Utah State University; M.A., Brigham Young University.

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

B

KENNETH D. BAHN, Assistant Professor of Marketing ... (1978)
B.S., M.S., California State University.

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

ELIZABETH BAKER, Assistant Professor of Nursing ... (1980)
B.A., Colby College; M.N., Yale University; M.S., University of California.

RICHARD BAKER, Associate Professor of Sociology ... (1973)
B.A., M.A., University of Wyoming; Ph.D., Washington State University.

JOSEPH A. BALDASSARRE, Assistant Professor of Music ... (1975)
B.M.E., Baldwin Wallace College.

RONALD M. BALDNER, Instructor in Welding ... (1978)
B.S., University of Idaho.

DAVID A. BALDWIN, Curriculum Librarian; Assistant Professor of Library Science ... (1977)
B.A., Upper Iowa College; M.A., University of Iowa.

JOHN B. BALDWIN, Professor of Music ... (1971)
B.M.E., M.M.E., Wichita State University; Ph.D., Michigan State University.

RICHARD N. BALL, Associate Professor of Mathematics ... (1974)
B.A., University of Colorado; M.A., Ph.D., University of Wisconsin.

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

GWYNN BARRETT, Professor of History ... (1968)
B.S., Utah State University; M.A., University of Hawaii; Ph.D., Brigham Young University.
RICHARD F. BOYLAN, Associate Professor of Communication .................................................. (1971)  
B.A., University of Arizona; M.A., Ph.D., University of Iowa.

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

BRYCE T. BRADLEY, Assistant Professor of Accounting (1970)  
B.S., Idaho State University; M.B.A., University of Utah; C.P.A., Golden Gate University, Ph.D. University of Nebraska.

J. WALLIS BRATT, Associate Professor of Music .................................................. (1970)  
B.M. University of Idaho; M.M., University of Utah.

SUSAN I. BRENDER, Associate Professor of Business Administration (1969)  
B.S.C., M.A., Ph.D., University of Minnesota.

BRENDA BRUNO, Assistant Professor of Philosophy .................................................. (1975)  
B.A., Eastern Nazarene College; Ph.D., University of Minnesota.

THEODORE BROWNFIELD, Instructor in Diesel Mechanics .................................................. (1979)

B.A., M.A., Texas Tech University; Ph.D., Indiana University.

BRENDA BRUNO, Assistant Professor of English .................................................. (1980)  
B.S., M.A., Northern Arizona University; Ph.D., Arizona State University.

PETER E. HETZER, Associate Professor of History .................................................. (1980)  
B.A., M.A., California State University, Los Angeles; Ph.D., University of California, San Diego.

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

RALPH L. BURKEY, Instructor in Drafting .................................................. (1976)

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

MARTY BUTLER, Instructor in Business Education .................................................. (1977)  
B.B.A., M.A., Boise State University.

SHERMAN BUTTON, Professor of Physical Education .................................................. (1976)  
B.A., M.A., Eastern Washington State College; Ph.D., University of Utah.

MAXIMO J. CALLAO, Professor of Psychology; Counselor .................................................. (1971)  
B.A., San Jose State College; M.S.Ed., Ph.D., Purdue University, University of Hawaii.

ERMA M. CALLIES, Instructor, Vocational Counselor; Department Head, Counseling .................................................. (1969)  
B.S., South Dakota State University, M.Ed., University of Idaho.

LYLE CAMPBELL, Instructor in Auto Mechanics .................................................. (1977)  
B.S., Utah State University.

RUSSELL CAMPBELL, Associate Professor of Physics .................................................. (1970)  
B.S., University of Washington; M.A., Ph.D., University of California, Irvine.

JANET CARLTON, Instructor of Business Education & Office Administration .................................................. (1977)  
B.S., University of Idaho; M.A., Boise State University.

CONNIE JO STEWART CARPENTER, Assistant Professor of Nursing .................................................. (1979)  
BSN, MS, Oklahoma University.

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

LOREN S. CARTER, Associate Professor of Chemistry .................................................. (1970)  
B.S., M.S., Oregon State University; Ph.D., Washington State University.

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

RUSSELL CENTANNI, Associate Professor of Biology .................................................. (1973)  
B.S., M.S., John Carroll University; Ph.D., University of Montana.

VICTOR CHARON, Assistant Professor of Music .................................................. (1980)  
B.Mus., M.Mus., University of Texas; University of Washington.

FURLEY CHANDLER, Instructor in Drafting .................................................. (1978)

GARVIN CHASTAIN, Assistant Professor of Psychology .................................................. (1978)  
B.B.A., Ph.D., University of Texas.

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

JAMES LEE CHRISTENSEN, Associate Professor of Sociology .................................................. (1970)  
B.S., Brigham Young University; M.A., University of Wyoming; Ph.D., University of Utah.

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

MICHAEL E. CLEVERLAND, Associate Professor of Music .................................................. (1970)  
B.A., San Jose State College; M.M., D.M.A., University of Oregon.

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

CONRAD COLEY, Associate Professor of Health Sciences; Director, Respiratory Therapy Program .................................................. (1970)  
B.A., M.A., University of Montana.

DORAN L. CONNOR, Assistant Professor of Physical Education .................................................. (1969)  
B.A., Idaho State University; M.S., Utah State University.

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

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

BILLIE DON COX, Associate Professor of Accounting and Data Processing .................................................. (1978)  
B.B.A., M.B.A., Baylor University; Ph.D., University of Missouri.

T. VIRGINIA COX, Assistant Professor of Anthropology .................................................. (1967)  
B.A., San Diego State College; M.A., University of California at Davis; Ph.D., University of Georgia.

VERL M. COX, Associate Professor of Communication .................................................. (1977)  
B.A., Idaho State University; M.A., Texas Christian University; Ph.D., University of Kansas.

DAVID E. CRANE, Head Catalog Librarian, Associate Associate Professor .................................................. (1969)  
B.A., California State University at San Francisco; M.A., California State University at San Jose.

G. DAWN CRANER, Assistant Professor of Communication .................................................. (1975)  
B.A., Utah State University; M.A., Purdue University.
ELIZABETH M. CURTIS, Instructor in Surgical Technology .......................................................... (1972)
Diploma, Kansas City General Hospital, School of Nursing; B.S.Ed., University of Idaho.

E. JOHN DAHLBERG, JR., Professor of Teacher Education ....................................................... (1970)
B.A., Pacific Lutheran University; M.A., Lewis & Clark College, Portland; Ed.D., University of Oregon.

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

MARY DALLAS, Instructor in Practical Nursing ................................................................. (1976)
B.S., Oregon State University; R.N. University of Oregon.

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

CHARLES GEORGE DAVIS, Professor of English; Chairman, Department of English .......... (1963)
B.A., Middlebury College; M.A., University of California, Berkeley; Ph.D., University of North Carolina.

JAMES B. DEMOUX, Associate Professor of Communications ............................................. (1971)
B.A., Brigham Young University; M.A., University of Montana; Ph.D., University of Colorado.

JERRY P. DODSON, Professor of Psychology ............................................................................. (1970)
B.A., Ball State University; M.S., Ph.D., Purdue.

ROBERT B. DODSON, Instructor in Electronics ........................................................................ (1979)
B.S.E.E., Seattle University.

PAUL DONALDON, Associate Professor of Geophysics ......................................................... (1975)
Stanford University, B.S., University of Utah; Ph.D., Colorado School of Mines.

DENNIS DONOGHUE, Professor of Political Science ............................................................ (1973)
B.S., M.A., Central Michigan University; Ph.D., Miami University.

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

JAMES G. DOSS, Associate Professor of Management; Associate Dean; MBA Program Coordinator .................. (1970)
B.S., University of California; M.S., The George Washington University; Ph.D., University of Utah.

JAMES D. DOUGLASS, Jr., Associate Professor of Art ......................................................... (1972)
B.S., Western Michigan University; M.F.A., Cranbrook Academy of Art.

RICHARD R. DOWNS, Associate Professor of Psychology ...................................................... (1975)
B.S., Pacific University; M.A., Ed.D., Ball State.

GERALD F. DRAAYER, Associate Professor of Economics; Director, Center for Economic Education .................................................. (1976)
B.A., Carvin College; M.A., Fairfield Dickinson University; M.A., Purdue University; Ph.D., Ohio University.

VICTOR H. DUKE, Professor of Pharmacology & Health Sciences; Dean, School of Health Science ............................................................................ (1972)
B.S. (Zool.), B.S. (Pharm.), Idaho State College; Ph.D., University of Utah.

EDLON H. EDMUNDSON, Associate Professor, Chairman, Dept. of Community and Environmental Health .................................................. (1979)
B.S., M.S., University of Idaho, Oregon State University; Ph.D., Washington State University.

PHILLIP M. EASTMAN, Associate Professor of Mathematics .................................................. (1977)
B.S., M.S.T., Wisconsin State University; M.A., University of Illinois; Ph.D., University of Texas.

BARBARA ENO, Instructor in Nursing .................................................................................... (1980)
B.S.N., University of Oregon.

WILBER D. ELLIOTT, Professor of Music; Chairman, Department of Music ..................... (1969)
B.A., University of Washington; M.E., Central Washington.

ROBERT W. ELLIS, Professor of Chemistry .......................................................................... (1971)
B.S., College of Idaho; M.S., Ph.D., Oregon State University.

ROBERT EDWARD ERICSON, Associate Professor of Theatre Arts ........................................ (1970)
B.S., Pacific University; M.A., Indiana University; Ph.D., University of Oregon.

STUART D. EVETT, Assistant Professor of English .............................................................. (1972)
B.A., University of the South (Sewanee); M.A., Vanderbilt University.

GERGER A. FAHLESON, Assistant Professor of Physical Education ................................ (1974)
B.S., University of Nebraska — Lincoln; M.Ed., Bowling Green State University.

RITA FARNHAM, Associate Professor of Nursing ............................................................ (1980)
B.S.N., Georgetown University; M.A., Fairfield University; M.S., University of Colorado; D.N.Sc. Boston University.

JAMES D. FELTON, Instructor in Water/Wastewater ......................................................... (1978)
Certificate, Linn-Benton Community College.

DAVID JOHN FERGUSON, Associate Professor of Mathematics ........................................ (1970)
B.S., Ph.D., University of Idaho.

DENNIS B. FITZPATRICK, Associate Professor of Finance .................................................. (1972)
B.S., University of Colorado; M.B.A., University of Santa Clara; D.B.A., University of Colorado.

NANCY L. FLEMING, Associate Professor of Nursing ...................................................... (1963)
B.S.N., University of Nebraska College of Medicine; M.S.N., Montana State University.

ALLAN WALKER FLETCHER, Associate Professor of History ............................................. (1970)
B.S., Louisiana State University; M.A., Ph.D., University of Washington.

CAROL FOUNTAIN, Associate Professor of Nursing .......................................................... (1967)
A.S., Boise Junior College; B.S.N., University of Washington; M.N., Montana State University.

ROY F. FOX, Assistant Professor of English, Coordinator of Composition ................. (1978)
B.S., M.S., Ph.D., University of Missouri, Columbia.

E. COSTON FREDERICK, Professor of Education ............................................................. (1971)
B.S. Ed., Indiana State Teacher's College; M.Ed., Temple University; Ph.D., Syracuse University.

JUDITH FRENCH, Assistant Professor of Education ............................................................ (1976)
B.A., M.A., University of Northern Colorado; Ph.D., Florida State University.

ROBERT L. FRIEDLI, Professor of Education ................................................................. (1972)
B.S., M.Ed., Utah State University; Ph.D., University of Utah.

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

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

EUGENE I. FURUYAMA, Associate Professor of Mathematics ........................................... (1972)
B.A., Northwest Nazarene College; M.A., Ph.D., Washington State University.
G

GUSTAV GLASSEN, Assistant Professor of Mathematics .................................. (1980)
B.S., University of Idaho; M.A., Stanford University.
CHARLOTTE B. GALE, Professor of Nursing ......................................................... (1976)
B.S., Douglass College; M.A., New York University; Ed.D., Stanford University.
LYMAN GALLUP, Assistant Professor of Management & Finance .......................... (1977)
B.A., University of Montana; M.B.A., Arizona State University, Ph.D., University of Oregon.
NORMAN D. GARDNER, Associate Professor of Finance (1974)
B.A., M.B.A., Brigham Young University; Ph.D., University of Utah.
GUSTAV GLASSEN, Instructor in Machine Shop ................................................. (1979)
State University of New York; Certificates in Electronics Manufacturing Methods, Numerical Control Programming; U.S.A.A.F. Technical, Denver, Colorado; Certificate: Armament Specialist.
GEORGE GOLDMAN, Assistant Professor of Mathematics .................................... (1980)
B.S., M.S., Latvian State University, Riga, Latvia; Ph.D. Educational Sciences University, Riga, Latvia; Ph.D., Riga Polytechnic Institute, Riga Latvia.
SHARON GOLLICK, Instructor in Surgical Technology ........................................... (1976)
Diploma, Toledo Hospital.
MARGARET GOURLEY, Instructor in Child Care ..................................................... (1977)
B.A., College of Wooster, Ohio.
FRANCES E. GRIFFITH, Instructor in Horticulture .............................................. (1971)
Lewiston Business College; College of Southern Idaho; Lewis-Clark State College; Boise State University.
DAVID GROEBNER, Associate Professor of Management .................................... (1973)
B.S., University of Minnesota; M.E.A., Ph.D., University of Utah.

H

DON P. HAACKE, Assistant Professor; Maps and Special Collections Librarian ........ (1971)
B.A., M.L.S., University of Washington; Brigham Young University; Weber State College.
JAMES E. HADDEN, Assistant Professor of English .............................................. (1972)
B.A., Rhode Island College; M.A., University of Washington.
CLAYTON W. HAHN, Associate Professor of Engineering, M.S. ........................... (1948-52, 1963)
B.S. (M.E.), University of Colorado; University of Montana; Montana State College; University of California at Los Angeles; University of Southern California; University of Nebraska.
LEE HALL, Instructor in Auto Mechanics ............................................................. (1979)
B.S., University of Wisconsin; M.B.A., University of Chicago; Ph.D., University of Washington.
BENJAMIN HAMBELTON, Assistant Professor, Director of Educational Media Services .................................................. (1975)
B.S., Boise State University; M.Ed., Utah State University.
MARK HANSEN, Assistant Professor of English .................................................... (1969)
B.A., M.A., San Francisco State College.
RALPH W. HANSEN, Associate University Librarian; Associate Professor .............. (1979)
A.B., M.A., Brigham Young University; M.L.S., University of California at Berkeley.
RICHARD F. HARDYMAN, Associate Professor of Geology ................................. (1976)
B.S., University of Wyoming; M.S., University of Minnesota; Ph.D., University of Nevada, Reno.
BARTBARA HART, Instructor in Nursing .............................................................. (1980)
B.S., M.S., University of Colorado.
RICHARD L. HART, Professor of Education; Dean, School of Education ............... (1978)
B.A., Nebraska Wesleyan University; Ed.M., Ed.D., University of Nebraska at Lincoln.
CAROL D. HARVEY, Professor of Sociology ....................................................... (1970)
B.S., University of Idaho; M.A., Ph.D., Washington State University.
ALAN R. HAUSRATH, Associate Professor of Mathematics ................................. (1977)
S.B., Massachusetts Institute of Technology; Ph.D., Brown University.
DONALD V. HEALAS, Dean, Vocational-Technical School, Professor of Industrial Technology .................................................. (1980)
B.S., H.Ed., Ed.D., Wayne State University; Cleveland State University.
FELIX ARNOLD HEAP, Associate Professor of Art .............................................. (1978)
B.A., University of Dayton; M.A., Ph.D., University of Dayton; M.A., Ph.D., University of Minnesota.
FRANK K. HEISE, Assistant Professor of Theatre Arts ....................................... (1971)
B.S., Wisconsin State University; M.A., University of South Dakota.
R. GAIL HEIST, Assistant Professor of Real Estate ............................................ (1975)
A.A., Boise Junior College; B.S., University of Utah; M.B.A., Boise State University.
JAMES R. HEMINGWAY, Associate Professor of Accounting & Data Processing .... (1977)
B.S., M.B.A., Texas Christian University; M.A., University of Pennsylvania; Ph.D., N. Texas State University.
WILLIAM GEORGE HESS, Associate Professor of Education ............................. (1978)
B.A., Fresno State College; M.A., Ph.D., University of Iowa.
ROBERT A. HIBBS, Professor of Chemistry ....................................................... (1965)
B.S., M.S., University of Florida; Ph.D., Washington State University.
KENNETH L. HILL, Professor of Education ......................................................... (1968)
B.S., Illinois State University; M.A., College of Idaho; Oregon State University; Ed.D. University of Idaho.
LAVAR K. HOFF, Instructor in Food Service Technology ..................................... (1969)
B.S., Utah State University.
JOHN DOUGLAS HOGO, Assistant Professor of Education .................................. (1980)
B.S., M.S., Ph.D., Florida State University.
KENNETH M. HOLLENBAUGH, Professor of Geology; Dean of Graduate School, Associate Executive Vice President, Director, Center for Research, Grants and Contracts .................................................. (1968)
B.S., Bowling Green State University; M.S., Ph.D., University of Idaho.
DONALD HOLLEY, Professor of Economics ........................................................ (1973)
B.A., Brigham Young University; M.A., University of Oregon; Ph.D., University of California at Riverside.
GAYE HOOPES, Instructor in Art ........................................................................ (1978)
A.A., Boise Junior College.
THEODORE HOPFENBECK, Associate Professor of Criminal Justice .................. (1967)
B.S., M.Ed., University or Arizona.
JAMES W. HOPPER, Associate Professor of Music ............................................. (1970)
B.S., Juilliard School; M.A., State University of Iowa; Washington State University.
MADELINE HSU, Associate Professor of Music .................................................. (1971)
DAN D. HUFF, Associate Professor of Social Work ........................................... (1970)
B.A., Washburn University; M.S.W., Kansas University.
HOWARD L. HUFF, Professor of Art ............ (1965) Diploma, Boise Junior College; B.A., College of Idaho; M.F.A., University of Idaho.

ROBERT B. HUGHES, Professor of Mathematics ........... (1971) B.A., University of California, Riverside; M.A., University of California at Berkeley; Ph.D., University of California, Riverside.

GUY LAMONT HUNT, Associate Professor of Education; Dean of Admissions and Records .......... (1970) B.S.Ed., Eastern Oregon College; M.S.Ed., Eastern Oregon College; Ph.D., Arizona State University.

DARRYL HUSKEY, Associate Professor, Government Publications Librarian .......... (1968) B.S., Brigham Young University; M.L., Kansas State Teachers College.

KENNETH ALBERT HYDE, Assistant Professor of Education; Media Graphics Specialist .......... (1979) B.S., University of Maine at Portland; M.Ed., Utah State University.

BONNIE IAMS, Instructor in Dental Assisting .......... (1976) Diploma, Boise State University; State University of New York.

GAIL ISON, Professor of Psychology .......... (1970) B.S., Idaho State University; M.A., Brigham Young University; Ph.D., University of Oregon.

WILLIAM K. JACKSON, Associate Professor of Accounting & Data Processing .......... (1977) B.S., M.B.A., Northern Illinois University; Ph.D., University of Northern Colorado.

EDWARD JACOBY, Assistant Professor of Physical Education; Head Track Coach .......... (1973) B.S., University of Idaho; M.S., University of Northern Colorado.

JAMES R. JENSEN, Clinical Coordinator/Associate Professor of Respiratory Therapy .......... (1977) A.B., Brigham Young University; A.M., Ph.D., Indiana University.

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

GEORGE JOCUMS, Professor of Foreign Language .......... (1973) A.B., A.M., Duquesne University; Ph.D., University of Michigan.

DAVID JOHNSON, Assistant Professor of Social Work .......... (1980) B.A., Boise State University; M.S.W., Rutgers The State University.

DIANE JOHNSON, Assistant Professor of Nursing .......... (1979) B.S., Seattle University; M.S., Montana State University.


LEO E. JONES, Professor of Biology .......... (1972) B.A., Chico State College; Ph.D., Oregon State University.

JERRY C. JOSE, Associate Professor of Foreign Language .......... (1976) B.A., M.A., University of Oregon; Ph.D., University of Washington.

ROBERT C. JUOLA, Professor of Mathematics .......... (1970) B.S., University of Oregon; M.S., Ph.D., Michigan State University.

K

JOHN H. KEISER, Professor of History, President .......... (1978) B.S.Ed., Eastern Illinois University; M.A., Ph.D., Northwestern University.

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

G. OTIS KENNY, Associate Professor of Mathematics .......... (1976) A.B., Earlham College; M.A., Ph.D., University of Kansas.

WILLIAM KEPPLER, Professor of Biology; Dean, School of Arts and Sciences .......... (1977) B.S., University of Miami; M.S., Ph.D., University of Illinois.

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

URSULA KETTLEWELL, Assistant Professor of Management & Finance .......... (1979) B.A., University of California at Berkeley; J.D. University of Idaho.

JOHN H. KILLMASTER, Professor of Art .......... (1970) B.A., Hope College; M.F.A., Cranbrook Academy of Art; Universidad de Guana Juato, Mexico; Northern Michigan University; Michigan State University.

JAY ADLER KING, Assistant Professor of English .......... (1975) B.S., Claremont Men's College; M.A., New York University.


HOWARD J. KINSLINGER, Associate Professor of Management .......... (1975) B.S., Brandeis University; M.B.A., City College of New York; Ph.D., Purdue University.

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

LEO L. KNOWLTON, Professor of Marketing .......... (1985) B.S., M.S., University of Idaho; University of Oregon.

ALFRED KOBER, Professor of Art .......... (1968) B.S., M.S., Fort Hayes Kansas State College.


L

CARROLL LAMBERT, Associate Professor of Early Childhood Education .......... (1976) B.S., M.S., Ed.D., Utah State University.

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

MAX LAMBORN, Instructor in Parts Counterperson; Chairman, Department of Mechanical Technologies .......... (1972) B.S., M.S., Kansas State College; University of Missouri; University of Idaho.
WILLIAM LA RUE, Instructor in Industrial Physics; Department Head, Specialized Subjects (1969). Philco Corp., N.A.S.A. Manned Space Program; Boeing Corporation; B.S., Boise State University.

CHARLES E. LAUTERBACH, Professor of Theatre Arts (1971). B.A., M.A., University of Colorado; Ph.D., Michigan State University.

GERALDINE LAWS, Assistant Professor of Nursing (1977). B.S.N., Armstrong State, M.N., Medical College of Georgia.

RICHARD V. LEAHY, Assistant Professor of English (1968). B.S., University of San Francisco; M.A., University of Iowa; Ph.D., University of California, Davis.

JOHN C. LEIGH, Jr., Instructor in Drafting (1971). Los Angeles Junior College.


PETER M. LICHTENSTEIN, Associate Professor of Economics (1975). B.A., M.S., Union College; M.A., Ph.D., University of Colorado.

DOUGLAS J. LINCOLN, Associate Professor of Marketing (1980). B.S., State University of New York at Buffalo; M.B.A., Eastern Illinois University; Ph.D., Virginia Polytechnic Institute and State University.

GLEN LINDER, Instructor; Assistant Dean, School of Vocational-Technical Education (1970). B.S., University of Idaho.

JOAN LINGENFELTER, Instructor in Child Care, Department Chairperson, Service Occupations (1973). B.S., University of Idaho.

ELAINE M. LONG, Associate Professor of Home Economics, Acting Chairman, Department of Home Economics (1975). B.S., California State Polytechnic University; M.S., Iowa State University.

JAMES A. LONG, Associate Professor of Biology (1974). A.A., Centerville Community College; B.S., Ph.D., Iowa State University.


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

PHOEBE J. LUNDY, Associate Professor of History (1966). B.S., M.S., Drake University.

LAMONT S. LYONS, Assistant Professor of Teacher Education & Library Science (1977). B.S., Brigham Young University; Ed.D., University of Massachusetts.


JEAN MacINNIS, Instructor in Dental Assisting (1962). C.D.A., University of North Carolina; Boise Junior College; Idaho State University.

DONALD R. MACKEN, Instructor of Vocational-Technical Education (1977). B.S., Iowa State University; M.S., University of Tennessee.

ALISTAIR R. MACMILLAN, Associate Professor of Accounting (1976). B.S., M.B.A., University of Montana, Ph.D., University of Missouri-Columbia.

JAMES MAGUIRE, Associate Professor of English (1970). B.A., University of Colorado; M.A., Ph.D., Indiana University.

CHERYL M. MAITLAND, Instructor in Health Occupations (1977). B.A., University of California; M.A., University of Oregon; Ph.D., Oregon State University; San Bernardino Valley Junior College; University of California at Los Angeles.

DARWIN W. MANSHP, Professor of Office Administration (1970). B.A., Northwest Nazarene College; M.S., Utah State University; Boise Junior College; University of Idaho; Ed.D., Brigham Young University.


ROBERT L. MARSH, Associate Professor of Criminal Justice Administration (1974). B.S., Lamar University; M.A., Ph.D., Sam Houston State University.


CLYDE M. MARTIN, Associate Professor of Teacher Education; Associate Dean, School of Education (1970). B.A., Linfield College; M.A., University of Oregon; Ed.D., Oregon State University.

EDWARD R. MATJEKA, Associate Professor of Chemistry (1976). B.S., St. Mary's University; Ph.D., Iowa State University.

CONSTANCE MATSON, Associate Professor of Nursing (1968). B.S., University of Oregon; M.Ed., University of Idaho.

EMERSON MAXON, Associate Professor of Accounting and Data Processing, Associate Director, Center for Research, Grants and Contracts (1968). B.S., M.B.A., University of Colorado; D.B.A., Texas Technical University.

KENNETH GARY McCAIN, Associate Professor of Marketing (1978). B.A., M.B.A., Eastern Washington University; Ph.D., University of Oregon.

RICHARD J. MCCLOSKEY, Associate Professor of Biology (1976). B.A., Franklin College of Indiana; M.S., Ph.D., Iowa State University.

SUZANNE McCORKLE, Assistant Professor of Communication (1978). B.S., M.A., Ball State University; Ph.D., University of Colorado at Boulder.


SHARON A. McGuire, Assistant Professor of English (1967). B.A., University of Idaho; M.A., Washington State University.

WILLIAM P. MECH, Professor of Mathematics, Director of Honors Program (1970). B.A., Washington State University; M.S., Ph.D., University of Illinois.

JOHN J. MEDLIN, Associate Professor of Accounting (1970). B.S., Idaho State University; M.B.A., University of Denver; C.P.A.

GARY D. MERCER, Associate Professor of Chemistry (1975). B.S., University of Montana; M.S., Ph.D., Cornell University.

C.M. MERZ, Professor of Accounting (1974). B.M.E., Villanova University; M.B.A., California State College at Long Beach; D.B.A., University of Southern California; CPA, CMA.
FACULTY

WANDA M. METZGAR, Instructor in Office Occupations (1976)
CARROLL J. MEYER, Professor of Music (1948)
B.M., University of Michigan; Private study with Ethel Leginska and Cecile de Horvath; M.A., University of Iowa.
CHARLES MIKESSELL, Instructor in Auto Mechanics (1976)
BEVERLY MILLER, Associate Professor, Reference Librarian (1968)
GILBERT McDONALD MILLER, Instructor, Vocational Education, Director of Curriculum and Instruction (1969)
Idaho State University, Certificate, Mid-West Motive Trades Institute.
JEROLD R. MILLER, Assistant Professor of Accounting and Data Processing (1979)
B.S., B.B.A., Wichita State University; M.A., University of Arizona.
JOHN W. MITCHELL, Professor of Economics (1970)
B.A., Williams College; M.A., Ph.D., University of Oregon.
GARY F. MONCRIEF, Instructor in Political Science (1976)
B.A., University of California at Santa Barbara; M.A., University of Idaho.
BRUCE F. MUNK, Instructor of Radiologic Technology (1978)
B.S., Idaho State University.
KENNETH MUNNS, Assistant Professor of Teacher Education (1978)
B.S., University of Colorado, M.A., Boise State University; Ed.D., University of Idaho.
THEODORE MUNSON, Associate Professor of Business Law (1976)
B.S., U.S. Naval Academy; J.D., Cornell University Law School.
ROBERT MURRAY, Assistant Professor of Physical Education (1980)
B.S., M.Ed., Slippery Rock State College; Ph.D., Ohio State University.
EARL NAUMAN, Assistant Professor of Marketing (1980)
B.S., University of Oregon; M.B.A., Boise State University; Arizona State University.
VIRGINIA NEHRING, Associate Professor of Nursing (1977)
A.D. Nursing Program Director (1969)
B.S.N., University of Bridgeport; M.S.N., Yale University.
ANNE MARIE NELSON, Counselor, Associate Professor of Education (1967)
B.A., The College of Idaho; M.S., University of Oregon, Ohio University; M.A., Boise State University; Ph.D., University of Oregon.
GARY R. NEWBY, Professor of Physics; Chairman, Department of Physics, Engineering and Physical Science (1966)
B.S., Ph.D., Arizona State University.
ROSS S. NICKERSON, Assistant Professor of English (1969)
B.A., Boise College; M.A., University of Utah.
DAVID E. NIX, Associate Professor of Management (1974)
L.L.B., LaSaile Extension University; B.A., M.A., Western State College; Ph.D., Oklahoma State University.
FREDERICK J. NORMAN, Professor, Chairman Department of Theatre Arts (1980)
A.A., Boise Junior College; B.A., Arizona State University; M.A., Northern Colorado University.
DONALD OAKES, Associate Professor of Music; Associate Department Chairman (1968)
B.M., M.M., Northwestern University; College of Idaho; University of Oregon.
F. DENIS OCHI, Associate Professor of Art (1971)
CHARLES M. ODahl, Associate Professor of History (1975)
B.A., M.A., California State University - Fresno; Ph.D., University of California, San Diego.
JOHN T. OGDEN, Instructor in Welding (1965)
Diploma, Boise Junior College; Navy Training School; Special Training and Experience in Welding.
MAMIE O. OLIVER, Associate Professor of Social Work (1972)
A.A., Los Angeles City College; B.A., California State University at Los Angeles; MSW, Fresno State University at Fresno, California; Ph.D., Washington State University.
THOMAS OLSON, Instructor in Applied Mathematics (1975)
A.A.S., Boise State University, B.S.Ed., University of Idaho.
DAVID L. ORAVEZ, Associate Professor of Art (1964)
B.S., M.S., M.F.A., University of Wisconsin, Summer School of Painting at Satutuck, Michigan.
GLORIA J. OSTRANDER, Assistant Professor; Monographs Librarian (1971)
B.A., Boise College; M.L.S., University of Washington.
PATRICIA K. OURADA, Professor of History (1962)
B.A., College of Saint Catherine; M.A., University of Colorado; Ph.D., University of Oklahoma; Laval University; University of Michigan; University of Minnesota; Marquette University.
WILLARD M. OVERGAARD, Professor of Political Science; Chairman, Department of Political Science (1972)
A.A., Boise Junior College; B.A., University of Oregon; M.A., University of Wisconsin; Ph.D., University of Minnesota; College of Idaho; University of Oslo, Norway.
NELDON D. OYLER, Instructor in Horticulture (1966)
A.A., Snow Colles; B.S., Brigham Young University.

ARNOLD PANITCH, Associate Professor of Social Work (1974)
B.S., Western Michigan University; M.S.W., Wayne State University.
HERBERT D. PAPENFUSS, Professor of Botany (1967)
B.S., University of Utah; M.S., Brigham Young University; Ph.D., Colorado State University.
BEN L. PANNER, Associate Professor of Communication (1977)
B.S., Southwest Texas State University; M.S., Ph.D., Southern Illinois University.
DONALD J. PARKS, Associate Professor of Physical Science and Engineering (1973)
B.S., Colorado State University; M.S., Ph.D., University of Minnesota.
MAX G. PAVESIC, Professor, Chairman Department of Sociology, Anthropology and Criminal Justice Administration (1974)
A.A., Los Angeles City College; B.A., University of California, Los Angeles; M.A., Ph.D., University of Colorado, Boulder.
RICHARD D. PAYNE, Professor of Economics; Chairman, Department of Economics (1970)
B.A., Utah State University; M.A., University of Southern California; Ph.D., University of Southern California.
LOUIS A. PECK, Professor of Art; Chairman, Department of Art (1955)
B.A., College of Idaho; University of California, Santa Barbara; M.S., Utah State University; Rex Brandt School of Art: Ed.D., University of Idaho.
MARGARET PEEK, Associate Professor of English (1969)
B.A., M.A., University of Alaska; Ph.D., University of Nebraska.
JUNE R. PENNER, Associate Professor of Nursing (1969)
B.A., M.A., University of Alaska; Ph.D., University of Nebraska.
ELLIS RAY PETERSON, Professor of Chemistry (1964)
B.S., M.S., Utah State University; Ph.D., Washington State University.
FACULTY

RONALD PAUL PFEIFFER, Instructor in Physical Education (1960)
B.S., Central Michigan University; M.S., University of Oregon.

CHARLES D. PHILLIPS, Professor of Management (1969)
A.B., DePauw University; M.A., Ph.D., University of Iowa.

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

GORDON D. PIRRONG, Associate Professor of Accounting and Data Processing; Department Chairman (1978)

C. HARVEY PITMAN, Associate Professor of Communication (1966)
B.A., College of Idaho; M.Ed., Washington State University.

REX E. PROFIT, Clinical Coordinator/Instructor in Radiologic Technology (1977)
B.S., Ohio State University.

HOWARD L. PUCKETT, Associate Professor of Finance (1976)
B.S., University of Michigan; M.B.A., Ph.D., Oklahoma State University.

CHARLES DENNIS QUINOWSKY, Instructor, Vocational Counselor (1970)
B.S.Ed., Southern Oregon College.

DAVID W. RAYBORN, Associate Professor of Communication (1969)
B.A., Idaho State University; M.S., Southern Illinois University.

GREGORY RAYMOND, Associate Professor of Political Science (1975)
B.A., Park College; M.A., Ph.D., University of South Carolina.

GERALD R. REED, Associate Professor of Education, Coordinator of Grants & Contracts (1967)
B.S., University of Wyoming; M.Ed., University of Idaho; Ed.D., Washington State University.

RICHARD J. REIMANN, Associate Professor of Physics (1974)
B.S., South Dakota School of Mines and Technology; M.S., Ph.D., University of Washington.

R. LARRY REYNOLDS, Assistant Professor of Economics (1979)
B.S., M.A., Eastern New Mexico University; Ph.D., Washington State University.

ANDREW RIBNER, Assistant Professor, Reference Librarian, Cataloger (1980)
B.A., University of Chicago; M.L.S., University of California, Berkeley.

CAROL RINNERT, Assistant Professor of English (1974)
B.A., Occidental College; Ph.D., State University of New York.

GEORGE F. ROBERTS, Associate Professor of Art (1970)
B.A., San Diego State College; M.A., M.F.A., University of Iowa.

JOHN B. ROBERTSON, Associate Professor of Foreign Languages; Chairman, Department of Foreign Languages and Literature (1974)
B.A., Idaho State University; M.A., Ph.D., University of Arizona.

ELAINE ROCKNE, Instructor in Medical Records Technology; Director, Medical Records Technician Program (1968)
B.A., College of St. Scholastica, Duluth, Minnesota.

ROGER RODERICK, Professor of Management & Finance; Chairman, Department of Management & Finance, Director of Research, School of Business (1976)
B.S., Eastern Illinois University; M.S., Ph.D., University of Illinois.

JAMES K. RUSSELL, Associate Professor of Art (1969)
A.B., San Diego State College; M.A., M.F.A., University of Iowa.

ASA M. RUYLE, Professor of Education, Vice-President for Financial Affairs (1976)
B.S., M.Ed., Ed.D., University of Missouri.

ROBERT C. RYCHERT, Associate Professor of Micro Biology; Chairman, Department of Biology (1975)
B.S., Cornell University; M.A., San Francisco State; Ph.D., Utah State University.

NORMA JEAN SADLER, Associate Professor of Education (1973)
A.B., University of California at Los Angeles; M.A., California State University at Long Beach; Ph.D., University of Wisconsin.

CHAMAN L. SAHNI, Associate Professor of English (1975)
B.A., Bareilly College; India; M.A., Lucknow University, India; M.A., University of Rhode Island; Ph.D., Wayne State University.

MICHAEL L. SAMBALL, Assistant Professor of Music (1978)
B.F.A., University of Florida; M.M., North Texas State University.

RICHARD K. SANDERSON, Assistant Professor of English (1971)
B.A., University of California, Berkeley; M.A., Ph.D., New York University.

MARTIN W. SCHEFFER, Professor of Sociology (1964)
A.A., Diablo Valley College; B.S., M.S., University of Oregon; Ph.D., University of Utah.

JACK ALBERT SCHLAEPFE, Assistant Professor of Education; Director, Educational TV (1971)
B.A., University of Northern Colorado; M.P.A., University of Colorado.

ANDREW B. SCHOEDINGER, Associate Professor of Philosophy (1972)

MARY A. SCOLES, Instructor in Related Subjects (1971)
A.A.; Boise Junior College; B.A., College of Idaho; University of Idaho; Idaho State University, San Francisco State University; Boise State University.

HENRIETTA S. SCHOONOVER, Associate Professor of Foreign Languages (1974)
A.B., Bryn Mawr College; M.A.; Ph.D., McGill University.

GERALD H. SCHROEDER, Assistant Professor of Music (1978)
B.S., University of Wisconsin; M.M., Indiana University; D.M.A., University of Colorado at Boulder.

MYRL SCHROEDER, Instructor in Small Engine Repair (1976)

DUSTIN R. SCUDDER, Professor of Marketing; Chairman, Department of Marketing and Mid-Management (1964)
B.S., in Business Administration; M.A., University of Denver; Ed.D., Oregon State University; University of Colorado; Colorado State University.

CAROL SEDDON, Assistant Professor of Medical Records (1978)
B.S., Idaho State University; M.S., Oregon State University; R.R.A. (Registered Record Administrator), Seattle University.

GLENN E. SELANDER, Assistant Professor of English (1966)
B.A., Southwestern University; M.A., Utah State University; Perkins School of Theology; Southern Methodist University; University of Utah.
FACULTY

WILLIAM E. SHANKWEILER, Professor of Theatre Arts. (1956)

PATRICK W. SHANNON, Associate Professor and Assistant Chairman, Department of Management and Finance. (1974)
B.S., M.S., University of Montana; Ph.D., University of Oregon.

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

MICHAEL A. SHORT, Instructor in Vocational-Technical Education. (1977)
B.A., Idaho State University; M.A., College of Idaho.

ROBERT C. SIMS, Professor of History. (1970)
B.A., Northeastern Oklahoma State College; M.A., University of Oklahoma; Ph.D., University of Colorado.

RAMLAYNKA SINGH, Associate Professor of Teacher Education and Library Science, Coordinator, Field Experiences. (1975)
B.S., Mankato State College; M.A., Ed.D., University of Northern Colorado, Greeley.

WILLIAM G. SKILLERN, Professor of Political Science, Director, Interdisciplinary Studies in the Humanities Program. (1971)
B.S., Linfield College; M.S., University of Oregon; Ph.D., University of Idaho.

ARYN R. SKOV, Professor of Art. (1967)
A.A., Boise Junior College; B.A., M.F.A., University of Idaho; California College of Arts and Crafts.

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

BERYL J. SMITH, Associate Professor of Registered Nursing. (1972)
B.S., University of Utah; M.Ed., University of Illinois.

DONALD D. SMITH, Professor of Psychology. (1967)
A.B., Nebraska State Teachers College; M.Ed., Whittier College; M.Ed., Ed.D., University of Southern California.

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

WILLIAM SMITH, Associate Professor of Physics and Engineering. (1973)
B.A., M.A., Ph.D., University of Wisconsin.

MARK E. SNOW, Professor of Psychology. (1971)
B.A., Eastern Washington College of Education; M.A., Ph.D., University of Utah.

STEPHEN E. SPAFFORD, Instructor in Political Science, Associate Dean, Admissions and Records. (1972)
B.A., Dartmouth College; M.A., University of Oregon.

CLAUDE SPINOSA, Professor of Geology. (1970)
B.S., City College of New York; M.S., Ph.D., The University of Iowa.

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

HARRY L. STEGER, Associate Professor of Psychology. (1972)
B.A., University of California, Berkeley; B.D., Berkeley Baptist Divinity School; M.S., California State College; Ph.D., University of Kentucky.

THOMAS E. STITZEL, Professor of Management and Finance; Dean, School of Business. (1975)
B.S., Washington State University; M.B.A., Ph.D., University of Oregon; C.F.A.

JANET M. STRONG, Assistant Professor; Circulation Librarian. (1973)
A.A., Treasure Valley Community College; B.A., Eastern Oregon State College; M.L.S., University of Washington.

MARSHALL M. SUGIYAMA, Associate Professor of Mathematics. (1974)
B.A., Eastern Washington State College; M.S., Western Washington State College; Ph.D., Washington State University.

LADDIE J. SULA, Associate Professor of Economics. (1975)
B.A., Loras College; M.A., University of Illinois, Urbana; Ph.D., Georgia State University.

ROBERT A. SULANKE, Associate Professor of Mathematics. (1970)
B.A., Earlham College; M.S., Case Institute of Technology; Ph.D., University of Kansas.

GERALD SUTTER, Sergeant, Instructor of Military Science. (1977)
Active Duty, United States Army.

CLARK SWAIN, Associate Professor of Marriage and Family Studies — Home Economics. (1976)
B.S., Brigham Young University; Ph.D., Florida State University.

COLEEN SWEEENEY, Assistant Professor of Physical Education. (1975)
B.A., M.A., California State University — Chico.

CARL RICHARD SWENSON, Assistant Professor of Teacher Education. (1980)
B.A., M.A., University of Washington; Ph.D., University of Kansas Medical Center.

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

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

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

JOHN A. TAYE, Assistant Professor of Art. (1975)
B.F.A., University of Utah; M.F.A., Otis Art Institute of Los Angeles County.

ADRIEN P. TAYLOR, Associate Professor; Head Reference Librarian. (1977)
A.B., Friends University; M.A., University of Denver; Washington State University.

DAVID S. TAYLOR, Professor of Psychology, Vice-President for Student Affairs. (1972)
B.S.Ed., Northern Illinois University; M.S.Ed., Southern Illinois University; Ph.D., Michigan State University.

PATRICIA A. TAYLOR, Instructor in Nursing. (1976)
B.S., Duquesne University; M.Ed., College of Idaho.

RONALD S. TAYLOR, Assistant Professor of Art. (1975)
B.A., Boise State; M.F.A., Utah State University.

GEORGE THOMASON, Assistant Professor in Music. (1975)
B.A., College of Idaho.

CHERYL K. THOMSON, Instructor in Art. (1978)

CONNIE M. THORNAGREN, Assistant Professor of Physical Education; Women’s Basketball Coach. (1970)
B.A., Idaho State University; M.Ed., Central Washington State College.

STEVEN DAVID THURBER, Professor of Psychology. (1970)
B.S., M.S., Brigham Young University; Ph.D., University of Texas, Austin.

CHARLES R. TILLMAN, Instructor in Diesel Mechanics. (1977)
B.S., Engineering Mechanics, Utah State University.

JAMES W. TOMPKINS, Assistant Professor of Industrial Communications. (1963)
A.B., Wheaton College; B.D., Th.B., Westminster Theological Seminary; University of Pennsylvania; Harvard University.
FACULTY

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


WILLIAM WARBERG, Associate Professor of Management. (1970) B.S., M.S., Colorado State University; Ph.D., Colorado State University.


GLENDA TRUMBO, Instructor in Office Occupations, Department Head; Service Occupations. (1976)

ANTHONY THOMAS TRUSKY, Assistant Professor of English. (1970) B.A., University of Oregon; M.A., Northwestern University; Trinity College; Dublin.

JERRY L. TUCKER, Professor of Education. (1971) B.S., M.N.S., University of Idaho; Ph.D., University of Washington.

WALTER TUCKER, Instructor in Air Conditioning. (1975) Certificate, Idaho State University; Air Conditioning and Refrigeration.

JOANN T. VAHEY, Professor; Chairman, Department of Registered Nursing. (1973) B.S.N.Ed., College Misericordia; M.S.N., Catholic University; Ed.D., Columbia University.

LUIS J. VALVERDE Z., Professor of Romance Languages. (1965) B.A., Mankato State College; B.S., Southern Illinois University; M.A., University of Illinois; Ed.D., University of California at Los Angeles; University of Michigan; University of Washington; University of Texas; University of Indiana.

ROSS E. VAUGHN, Assistant Professor of Physical Education. (1973) A.A., Riverside City College; B.A., Chico State College; M.S., Washington State University.

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

WENDEN W. WAITE, Associate Professor of Teacher Education. (1976) B.S., M.S., Ph.D., Utah State University.

LARRY L. WALDORF, Associate Professor of Management. (1970) B.S., M.S., Colorado State University; Ph.D., Colorado State University.

STEVEN R. WALLACE, Assistant Professor of Physical Education. (1972) B.S., Boise State College; M.S., University of Utah.

JOHN WALThER, Major, Professor of Military Science. (1977) Active Duty, United States Army.

WILLIAM WARBERG, Assistant Professor of Business Education and Office Administration. (1977) B.A., Linfield College; M.A., Utah State University; Ed.D., Oregon State University.

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

KATHLEEN C. WARNER, Assistant Professor of English. (1968) B.A., University of Nevada; M.A., Arizona State University; Ph.D., Indiana University.

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

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

DONALD J. WATTS, Instructor in Drafting. (1973) B.S.C.E., University of Idaho.


E. ALLEN WESTON, Assistant Professor of Drafting-Design, Chairman, Department of Light Technologies. (1964) B.F.A., University of Arizona; M.Ed., Idaho State University.

GLENDA TRUMBO, Instructor in Office Occupations, Department Head; Service Occupations. (1976)

ANTHONY THOMAS TRUSKY, Assistant Professor of English. (1970) B.A., University of Oregon; M.A., Northwestern University; Trinity College; Dublin.

JERRY L. TUCKER, Professor of Education. (1971) B.S., M.N.S., University of Idaho; Ph.D., University of Washington.

WALTER TUCKER, Instructor in Air Conditioning. (1975) Certificate, Idaho State University; Air Conditioning and Refrigeration.

JOANN T. VAHEY, Professor; Chairman, Department of Registered Nursing. (1973) B.S.N.Ed., College Misericordia; M.S.N., Catholic University; Ed.D., Columbia University.

LUIS J. VALVERDE Z., Professor of Romance Languages. (1965) B.A., Mankato State College; B.S., Southern Illinois University; M.A., University of Illinois; Ed.D., University of California at Los Angeles; University of Michigan; University of Washington; University of Texas; University of Indiana.

ROSS E. VAUGHN, Assistant Professor of Physical Education. (1973) A.A., Riverside City College; B.A., Chico State College; M.S., Washington State University.

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

WENDEN W. WAITE, Associate Professor of Teacher Education. (1976) B.S., M.S., Ph.D., Utah State University.

LARRY L. WALDORF, Associate Professor of Management. (1970) B.S., M.S., Colorado State University; Ph.D., Colorado State University.

STEVEN R. WALLACE, Assistant Professor of Physical Education. (1972) B.S., Boise State College; M.S., University of Utah.

JOHN WALThER, Major, Professor of Military Science. (1977) Active Duty, United States Army.

WILLIAM WARBERG, Assistant Professor of Business Education and Office Administration. (1977) B.A., Linfield College; M.A., Utah State University; Ed.D., Oregon State University.

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

KATHLEEN C. WARNER, Assistant Professor of English. (1968) B.A., University of Nevada; M.A., Arizona State University; Ph.D., Indiana University.
JERRY YOUNG, Associate Professor of Mathematics (1964)

MIKE M. YOUNG, Assistant Professor of Physical Education; Head Wrestling Coach (1970)
B.A., M.A., Brigham Young University.

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

DOUGLAS YUNKER, Associate Professor of Social Work, Chairman Department of Social Work (1976)
B.S., Western Michigan University; M.A., Indiana University.

RONALD ZAWISLAK, Associate Professor of Geology/Geophysics (1980)
B.A., M.A.T., Vanderbilt University; Ph.D., University of Wyoming.

MICHAEL P. ZIRINSKY, Associate Professor of History (1973)
A.B., Oberlin College; M.A., American University; Ph.D., University of North Carolina at Chapel Hill.
DOROTHY ALBERTSON, Associate Professor of Office Administration (1953-1977)

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

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

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

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

ELSIE BUCK, Professor of Mathematics (1932-1934; 1937-1968)

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

VINA BUSHBY, Associate Professor of Secretarial Science (1946-1965)

EUGENE B. CHAFFEE, President (1922-1967)

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

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

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

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

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

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

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

ALBERT FUEHRER, Instructor in Auto Mechanics (1965-1976)

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

ADA Y. HATCH, Professor of English (1932-1967)

ALICE H. HATTON, Registrar (1959-1974)

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

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

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

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

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

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

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

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

DONALD J. OBE, Professor of Botany (1946-1977)

AYER F. PETERSON, Assistant Professor of Political Science (1965-1975)


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

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

ALBERT H. Tennyson, Instructor in Industrial Communications (1966-1977)

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

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

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

EUNICE WALLACE, Associate Professor of English (1968-1979)

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

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

HELEN WESTFALL, Associate Professor of Physical Education (1962-1970)

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

PETER K. WILSON, Professor of Business Administration (1966-1977)
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absences</td>
<td>24</td>
</tr>
<tr>
<td>Academic Calendar</td>
<td>5</td>
</tr>
<tr>
<td>Academic Disqualification</td>
<td>25</td>
</tr>
<tr>
<td>Academic Probation</td>
<td>25</td>
</tr>
<tr>
<td>Academic Regulations</td>
<td>23</td>
</tr>
<tr>
<td>Accounting Courses</td>
<td>79, 131</td>
</tr>
<tr>
<td>Accreditation</td>
<td>8</td>
</tr>
<tr>
<td>ACT Tests</td>
<td>15, 16</td>
</tr>
<tr>
<td>Adding Courses</td>
<td>24</td>
</tr>
<tr>
<td>Additional Baccalaureate degree</td>
<td>30</td>
</tr>
<tr>
<td>Administrative Officers</td>
<td>4</td>
</tr>
<tr>
<td>Administrative Withdrawal</td>
<td>25</td>
</tr>
<tr>
<td>Admissions Requirements</td>
<td>15</td>
</tr>
<tr>
<td>On Probation</td>
<td>26</td>
</tr>
<tr>
<td>Foreign Students</td>
<td>16</td>
</tr>
<tr>
<td>Graduate</td>
<td>126</td>
</tr>
<tr>
<td>Regular Students</td>
<td>15</td>
</tr>
<tr>
<td>Special Students</td>
<td>16</td>
</tr>
<tr>
<td>To Upper Division</td>
<td>26</td>
</tr>
<tr>
<td>Vocational Technical</td>
<td>16, 143</td>
</tr>
<tr>
<td>Adult Basic Education</td>
<td>9</td>
</tr>
<tr>
<td>Advanced Placement</td>
<td>27</td>
</tr>
<tr>
<td>Advising</td>
<td>12, 24</td>
</tr>
<tr>
<td>Agricultural Education Technology Courses</td>
<td>150</td>
</tr>
<tr>
<td>Agricultural Equipment Technology Courses</td>
<td>150</td>
</tr>
<tr>
<td>Airconditioning, Refrigeration and Heating Courses</td>
<td>145</td>
</tr>
<tr>
<td>Allied Health Studies</td>
<td>110</td>
</tr>
<tr>
<td>Alumni Association</td>
<td>14</td>
</tr>
<tr>
<td>Anthropology</td>
<td>71</td>
</tr>
<tr>
<td>Anthropology Courses</td>
<td>73</td>
</tr>
<tr>
<td>Application for Housing</td>
<td>20</td>
</tr>
<tr>
<td>Apprenticeship and Trade Ext</td>
<td>152</td>
</tr>
<tr>
<td>Art Courses</td>
<td>37, 136</td>
</tr>
<tr>
<td>Associate of Arts Degree Program</td>
<td>32</td>
</tr>
<tr>
<td>Athletics</td>
<td>13</td>
</tr>
<tr>
<td>Audit/Credit Registration</td>
<td>24</td>
</tr>
<tr>
<td>Audit to Credit Changes</td>
<td>25</td>
</tr>
<tr>
<td>Auto Body Courses</td>
<td>149</td>
</tr>
<tr>
<td>Auto Mechanics Courses</td>
<td>149</td>
</tr>
<tr>
<td>Aviation Courses</td>
<td>87</td>
</tr>
<tr>
<td>Baccalaureate Degree Programs</td>
<td>78</td>
</tr>
<tr>
<td>Accounting</td>
<td>36</td>
</tr>
<tr>
<td>Advertising Design</td>
<td>38</td>
</tr>
<tr>
<td>Art</td>
<td>36</td>
</tr>
<tr>
<td>Biology</td>
<td>38</td>
</tr>
<tr>
<td>Business Education</td>
<td>80</td>
</tr>
<tr>
<td>Chemistry</td>
<td>41</td>
</tr>
<tr>
<td>Communication</td>
<td>42</td>
</tr>
<tr>
<td>Communication/English</td>
<td>43</td>
</tr>
<tr>
<td>Construction Management</td>
<td>65</td>
</tr>
<tr>
<td>Criminal—Justice Administration</td>
<td>76</td>
</tr>
<tr>
<td>Earth Science Education</td>
<td>76</td>
</tr>
<tr>
<td>Economics</td>
<td>83</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>99</td>
</tr>
<tr>
<td>English</td>
<td>45</td>
</tr>
<tr>
<td>Environmental Health</td>
<td>115</td>
</tr>
<tr>
<td>Finance</td>
<td>84</td>
</tr>
<tr>
<td>General Business</td>
<td>84</td>
</tr>
<tr>
<td>Geology</td>
<td>50</td>
</tr>
<tr>
<td>Geophysics</td>
<td>50</td>
</tr>
<tr>
<td>German</td>
<td>46</td>
</tr>
<tr>
<td>Health Science Studies</td>
<td>110</td>
</tr>
<tr>
<td>History</td>
<td>53</td>
</tr>
<tr>
<td>Information Sciences</td>
<td>78</td>
</tr>
<tr>
<td>Management</td>
<td>85</td>
</tr>
<tr>
<td>Marketing</td>
<td>88</td>
</tr>
<tr>
<td>Mathematics</td>
<td>56</td>
</tr>
<tr>
<td>Multimedia Science</td>
<td>10</td>
</tr>
<tr>
<td>Music</td>
<td>59</td>
</tr>
<tr>
<td>Nursing</td>
<td>118</td>
</tr>
<tr>
<td>Office Administration</td>
<td>81</td>
</tr>
<tr>
<td>Physical Education</td>
<td>92</td>
</tr>
<tr>
<td>Physics</td>
<td>65</td>
</tr>
<tr>
<td>Political Science</td>
<td>67</td>
</tr>
<tr>
<td>Preprofessional (Health) Studies</td>
<td>121</td>
</tr>
<tr>
<td>Production Management</td>
<td>85</td>
</tr>
<tr>
<td>Psychology</td>
<td>96</td>
</tr>
<tr>
<td>Radiologic Technology</td>
<td>112</td>
</tr>
<tr>
<td>Real Estate</td>
<td>87</td>
</tr>
<tr>
<td>Social Science</td>
<td>72</td>
</tr>
<tr>
<td>Social Work</td>
<td>70</td>
</tr>
<tr>
<td>Sociology</td>
<td>72</td>
</tr>
<tr>
<td>Sociology of Science</td>
<td>72</td>
</tr>
<tr>
<td>Spanish</td>
<td>48</td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>74</td>
</tr>
<tr>
<td>Baccalaureate Minimum Requirements</td>
<td>BA-30, BS-30, BBA-31, BFA-31, BM-31</td>
</tr>
<tr>
<td>Biology Courses</td>
<td>40</td>
</tr>
<tr>
<td>Board and Room Schedule</td>
<td>19</td>
</tr>
<tr>
<td>Board of Trustees</td>
<td>4</td>
</tr>
<tr>
<td>Boise State University</td>
<td>8</td>
</tr>
<tr>
<td>Accreditation &amp; Affiliation</td>
<td>8</td>
</tr>
<tr>
<td>Mission and Objectives</td>
<td>8</td>
</tr>
<tr>
<td>Bookstore</td>
<td>13</td>
</tr>
<tr>
<td>Botany Courses</td>
<td>40</td>
</tr>
<tr>
<td>Business Education Courses</td>
<td>82, 132, 137</td>
</tr>
<tr>
<td>Business Machine Technology Courses</td>
<td>147</td>
</tr>
<tr>
<td>Calendar</td>
<td>5</td>
</tr>
<tr>
<td>Campus Map</td>
<td>2</td>
</tr>
<tr>
<td>Career Services</td>
<td>13</td>
</tr>
<tr>
<td>Career and Financial Services</td>
<td>13</td>
</tr>
<tr>
<td>Career and Financial Services</td>
<td>13</td>
</tr>
<tr>
<td>Center for Guidance, Counseling and Testing</td>
<td>12</td>
</tr>
<tr>
<td>Challenging Courses</td>
<td>28</td>
</tr>
<tr>
<td>Change in Registration</td>
<td>24</td>
</tr>
<tr>
<td>Chemistry Courses</td>
<td>42, 137</td>
</tr>
<tr>
<td>Child Care Service</td>
<td>12</td>
</tr>
<tr>
<td>Child Care Studies Courses</td>
<td>150</td>
</tr>
<tr>
<td>Class Attendance</td>
<td>24</td>
</tr>
<tr>
<td>Classification of Students</td>
<td>23</td>
</tr>
<tr>
<td>C.L.E.P. (College Level Examination Program)</td>
<td>27</td>
</tr>
<tr>
<td>Communication Courses</td>
<td>44</td>
</tr>
<tr>
<td>Computer Center</td>
<td>9</td>
</tr>
<tr>
<td>Construction Management Courses</td>
<td>66</td>
</tr>
<tr>
<td>Consumer Electronics Courses</td>
<td>146</td>
</tr>
<tr>
<td>Continuing Education</td>
<td>10</td>
</tr>
<tr>
<td>Core Requirements</td>
<td>29</td>
</tr>
<tr>
<td>Correspondence Study</td>
<td>17</td>
</tr>
<tr>
<td>Counseling and Testing Center</td>
<td>12</td>
</tr>
<tr>
<td>Course Load Limit—Graduate Students</td>
<td>127</td>
</tr>
<tr>
<td>Course Numbering</td>
<td>26</td>
</tr>
<tr>
<td>Course Numbering, Graduate Students</td>
<td>26</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>29</td>
</tr>
<tr>
<td>See: Graduation Requirements</td>
<td>29</td>
</tr>
<tr>
<td>Dental Assisting Courses</td>
<td>144</td>
</tr>
<tr>
<td>Directory</td>
<td>3</td>
</tr>
<tr>
<td>Disabled Student Program</td>
<td>12</td>
</tr>
<tr>
<td>Degrees Offered</td>
<td>32</td>
</tr>
<tr>
<td>Degree Requirements</td>
<td>29</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>101</td>
</tr>
</tbody>
</table>

185
INDEX

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics Courses</td>
<td>83, 132</td>
</tr>
<tr>
<td>Education (Teacher Education) Courses</td>
<td>105, 135</td>
</tr>
<tr>
<td>Educational Media Services (EMS)</td>
<td>8</td>
</tr>
<tr>
<td>Educational Talent Search</td>
<td>9</td>
</tr>
<tr>
<td>Educational Television</td>
<td>146</td>
</tr>
<tr>
<td>Electrical Lineman Course</td>
<td>146</td>
</tr>
<tr>
<td>Electronics Technology</td>
<td>148</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>99</td>
</tr>
<tr>
<td>Elementary Education, Bilingual/Multicultural</td>
<td>100</td>
</tr>
<tr>
<td>Emergency Faculty</td>
<td>99</td>
</tr>
<tr>
<td>Engineering Courses</td>
<td>66</td>
</tr>
<tr>
<td>English Courses</td>
<td>45, 138</td>
</tr>
<tr>
<td>Enrollment Verification</td>
<td>23</td>
</tr>
<tr>
<td>Entrance Requirements (see Admission Requirements)</td>
<td>15</td>
</tr>
<tr>
<td>Environmental Health Courses</td>
<td>115</td>
</tr>
<tr>
<td>Evening Special Programs</td>
<td>9</td>
</tr>
<tr>
<td>Exchange Programs</td>
<td>11</td>
</tr>
<tr>
<td>Expulsion</td>
<td>25</td>
</tr>
<tr>
<td>Faculty</td>
<td>153</td>
</tr>
<tr>
<td>Failing Grades, Forgiveness for</td>
<td>26</td>
</tr>
<tr>
<td>&quot;F&quot; Grades, Graduate Students</td>
<td>26</td>
</tr>
<tr>
<td>&quot;F&quot; Grades, Repeat Limit</td>
<td>26</td>
</tr>
<tr>
<td>&quot;F&quot; in Major Course Requirements</td>
<td>26</td>
</tr>
<tr>
<td>Family Student Housing</td>
<td>20</td>
</tr>
<tr>
<td>Family Student Housing Costs</td>
<td>20</td>
</tr>
<tr>
<td>Fees</td>
<td>17</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>127</td>
</tr>
<tr>
<td>Finance Courses</td>
<td>87, 131</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>18</td>
</tr>
<tr>
<td>Food Service Technology Courses</td>
<td>151</td>
</tr>
<tr>
<td>Foreign Education Courses</td>
<td>13</td>
</tr>
<tr>
<td>Foreign Language Courses</td>
<td>48</td>
</tr>
<tr>
<td>Foreign Language Requirements</td>
<td>127</td>
</tr>
<tr>
<td>Graduate Students</td>
<td>26</td>
</tr>
<tr>
<td>Forestry Courses</td>
<td>13</td>
</tr>
<tr>
<td>Fraternities</td>
<td>20</td>
</tr>
<tr>
<td>Fraternity Houses</td>
<td>20</td>
</tr>
<tr>
<td>French Courses</td>
<td>46</td>
</tr>
<tr>
<td>Full-time Student</td>
<td>17, 23</td>
</tr>
<tr>
<td>General Business Courses</td>
<td>87, 131</td>
</tr>
<tr>
<td>General Information—Part 1</td>
<td>7</td>
</tr>
<tr>
<td>General Science Courses</td>
<td>53, 138</td>
</tr>
<tr>
<td>Geography Courses</td>
<td>52</td>
</tr>
<tr>
<td>Geology Courses</td>
<td>53, 138</td>
</tr>
<tr>
<td>Geophysics Courses</td>
<td>52</td>
</tr>
<tr>
<td>German Courses</td>
<td>49</td>
</tr>
<tr>
<td>Grade Point Requirements—Graduate Students</td>
<td>25, 29</td>
</tr>
<tr>
<td>Graduation System</td>
<td>126</td>
</tr>
<tr>
<td>Graduate Candidacy</td>
<td>24</td>
</tr>
<tr>
<td>Graduate Classifications</td>
<td>126</td>
</tr>
<tr>
<td>Graduate Committees</td>
<td>126</td>
</tr>
<tr>
<td>Graduate Courses for Undergraduate Credit</td>
<td>126</td>
</tr>
<tr>
<td>Graduate Credit for Seniors</td>
<td>126</td>
</tr>
<tr>
<td>Graduation School</td>
<td>125</td>
</tr>
<tr>
<td>Graduation Requirements</td>
<td>29</td>
</tr>
<tr>
<td>Greek Courses</td>
<td>49</td>
</tr>
<tr>
<td>Guidance Counseling</td>
<td>12</td>
</tr>
<tr>
<td>Health Occupations</td>
<td>139</td>
</tr>
<tr>
<td>Health Sciences Courses</td>
<td>116</td>
</tr>
<tr>
<td>Health Services</td>
<td>13</td>
</tr>
<tr>
<td>Heavy Duty Mechanics Courses</td>
<td>149</td>
</tr>
<tr>
<td>Heavy Technologies</td>
<td>149</td>
</tr>
<tr>
<td>High School Students Admission Policy</td>
<td>16</td>
</tr>
<tr>
<td>History Courses</td>
<td>139</td>
</tr>
<tr>
<td>Home Economics Courses</td>
<td>55</td>
</tr>
<tr>
<td>Honors Program</td>
<td>10, 27</td>
</tr>
<tr>
<td>Horticulture Service Technician Courses</td>
<td>151</td>
</tr>
<tr>
<td>Housing</td>
<td>19</td>
</tr>
<tr>
<td>Housing - Costs</td>
<td>19</td>
</tr>
<tr>
<td>Humanities Courses</td>
<td>47</td>
</tr>
<tr>
<td>Incompletes</td>
<td>24</td>
</tr>
<tr>
<td>Independent Study</td>
<td>28</td>
</tr>
<tr>
<td>Interdisciplinary Objectives</td>
<td>13</td>
</tr>
<tr>
<td>Insurance Coverage</td>
<td>18</td>
</tr>
<tr>
<td>Interdisciplinary Courses</td>
<td>27</td>
</tr>
<tr>
<td>Interdisciplinary Studies in the Humanities</td>
<td>10, 27</td>
</tr>
<tr>
<td>Internship</td>
<td>22, 29</td>
</tr>
<tr>
<td>International Baccalaureate Degree Programs</td>
<td>13</td>
</tr>
<tr>
<td>KAID</td>
<td>9</td>
</tr>
<tr>
<td>Late Registration</td>
<td>25</td>
</tr>
<tr>
<td>Late Registration Fee</td>
<td>17</td>
</tr>
<tr>
<td>Latin Courses</td>
<td>49</td>
</tr>
<tr>
<td>Library</td>
<td>8</td>
</tr>
<tr>
<td>Library Science Courses</td>
<td>105</td>
</tr>
<tr>
<td>Library Science Teaching Minor</td>
<td>101</td>
</tr>
<tr>
<td>Light Technologies</td>
<td>146</td>
</tr>
<tr>
<td>Linguistics Courses</td>
<td>47</td>
</tr>
<tr>
<td>Loans</td>
<td>19</td>
</tr>
<tr>
<td>Machine Shop Courses</td>
<td>145</td>
</tr>
<tr>
<td>Marketing Courses</td>
<td>89, 131</td>
</tr>
<tr>
<td>Marketing, Mid-Management Courses</td>
<td>90</td>
</tr>
<tr>
<td>Married Student Housing</td>
<td>20</td>
</tr>
<tr>
<td>Married Student Housing Costs</td>
<td>20</td>
</tr>
<tr>
<td>Master's Degree Programs</td>
<td>130</td>
</tr>
<tr>
<td>Master's of Arts in Elementary Education</td>
<td>132</td>
</tr>
<tr>
<td>Master's of Arts/Science in Secondary Education</td>
<td>134-144</td>
</tr>
<tr>
<td>Master's of Business Administration</td>
<td>130</td>
</tr>
<tr>
<td>Master's of Business Administration</td>
<td>128</td>
</tr>
<tr>
<td>Mathematics Courses</td>
<td>67, 140</td>
</tr>
<tr>
<td>Meal Service Costs</td>
<td>19</td>
</tr>
<tr>
<td>Mechanical Plant Maintenance</td>
<td>145</td>
</tr>
<tr>
<td>Mechanical Technologies</td>
<td>148</td>
</tr>
<tr>
<td>Medical Record Science Courses</td>
<td>112</td>
</tr>
<tr>
<td>Medical Technology Courses</td>
<td>111</td>
</tr>
<tr>
<td>Military Science Courses</td>
<td>59</td>
</tr>
<tr>
<td>Minor Certification Endorsements</td>
<td>103</td>
</tr>
<tr>
<td>Multicultural Center</td>
<td>12</td>
</tr>
<tr>
<td>Music Courses</td>
<td>62, 141</td>
</tr>
<tr>
<td>Music Fees</td>
<td>17</td>
</tr>
<tr>
<td>National Student Exchange Program</td>
<td>11</td>
</tr>
<tr>
<td>New Student Orientation</td>
<td>12</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs</td>
<td>12</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Air Conditioning</td>
<td>144</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Architectural</td>
<td>37</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Auto Body</td>
<td>149</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Auto Mechanic</td>
<td>149</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Child Care Studies</td>
<td>150</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Criminal Justice Administration</td>
<td>72</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Dental Assisting</td>
<td>144</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Dentistry Technology</td>
<td>147</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Electrical Lineman</td>
<td>145</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Electronic-Mechanical</td>
<td>148</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Service Technician</td>
<td>146</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Electronics Technology</td>
<td>148</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Engineering</td>
<td>64</td>
</tr>
<tr>
<td>Non-Baccalaureate Degree Programs—Fashion Merchandising</td>
<td>89, 152</td>
</tr>
</tbody>
</table>
INDEX

Forestry ........................................ 40
Food Service .................................. 151
Heavy Duty Mechanics ....................... 149
Home Economics ............................... 55
Horticulture .................................... 151
Machine Shop .................................. 145
Marketing, Mid-Management ................ 89, 152
Mechanical Plant Maintenance ............. 145
Medical/Office Assistant .................... 111
Medical Record Science ...................... 111
Nursing ........................................... 116
Office Occupations ......................... 152
Parts Counterperson ......................... 149
Practical Nursing ............................ 144
Pre-Professional Health ....................... 123
Radiologic Technology ....................... 112
Registered Nursing ........................... 116
Respiratory Therapy .......................... 113
Secretarial Program ......................... 82
Small Engine Repair ......................... 150
Surgical/Technology ........................... 144
Wastewater Technology ....................... 148
Welding .......................................... 146
Word Processing ................................ 81
Nursing Courses ............................... 120
Off-Campus Student Housing ............... 20
Office-Administration Courses ............. 82
Oral Examinations—Graduate Students ...... 127
Outreach Services and Programs ............ 9
Part-time Employment ......................... 18
Parts Counterman Courses ................. 149
Petitions ......................................... 26
Philosophy Courses ............................ 69
Physical Education Courses ................. 94, 135
Physics Courses ............................... 66
Placement, Job .................................. 13
Political Science Courses .................... 68, 130
Practical Nurse Program ..................... 144
Pre-Architectural .................. ......... 37
Pre-Law .......................................... 32
Pre-Professional Studies (Health) .......... 121
Prerequisites, Waiver of ..................... 26
Pre-Technical .................................. 147
Pre-Vocational Training ...................... 152
Probation and Disqualification ............. 25
Program Development ........................ 7
Graduate Students ............................ 127
Psychology Courses .......................... 97, 135
Radiologic Technology Courses ............ 113
Reading Education Center ................... 9
Reading & Study Skills ....................... 12
Real Estate Courses ........................... 88
Refunds—Fees .................................. 18
Refunds—Room and Board .................... 18
Registration Changes ......................... 24
Registration, Credit & Audit ............... 24
Regulations ..................................... 23
Reunion ........................................... 16
Repeating Courses ............................ 91
Repeating Courses—Graduate Students .... 24
Residence Halls ............................... 126
Residence Halls—Fees ......................... 19
Residency Requirements...................... 126
Fee Purposes .................................... 17
Residency Requirements—Graduate Students 126
Residency Requirements—Undergraduate Students 29
Respiratory Therapy Courses ............... 114
Room and Board Costs ......................... 19
ROTC .............................................. 11, 58
Russian Courses ............................... 49
Scholarships .................................... 18
Schools of Boise State University........... 4
Arts and Sciences ............................. 35
Business ......................................... 77
Education ........................................ 91
Graduate .......................................... 125
Health Sciences ................................ 105
Vocational Technical ......................... 143
Second Baccalaureate Degree ............... 30
Secondary Education ......................... 102
Secondary Student Teaching ................ 105
Secretarial Courses (See Office Administration) 82
Service Occupations ......................... 150
Serviceman’s Opportunity College .......... 11
Small Engine Repair Courses ............... 150
Social Science Courses ....................... 74
Social Work Courses ........................... 70
Sociology Courses ............................. 74, 130
Sororities ........................................ 20
Sorority Houses ................................ 20
Spanish Courses ............................... 49
Speaker’s Bureau .............................. 9
Special Education .............................. 101, 105
Special Services and Programs ............. 9
Student Advisory and Special Services, Dean of .... 12
Student Affairs, Vice-President for ....... 12
Student Classification ......................... 23
Student Employment ........................... 18
Student Government ........................... 13
Student Housing ............................... 19
Residence Halls—Regulations ............... 20
Student Organizations & Activities ......... 13
Student Records ............................... 23
Student Rights & Responsibilities .......... 12
Student Teaching .............................. 102
Student Union ................................... 13
Summer Sessions ............................. 9
Surgical Technology .......................... 144
Teacher Certification .......................... 102
Teacher Education ............................. 98
Teacher Education Courses ................. 105, 135
Testing Center .................................. 12
Testing Out of Courses ....................... 28
Theatre Arts Courses ......................... 144
Thesis Requirements—Graduate Students .... 27
Transfer of Credits—Graduate Students .... 126
Transfer Student Admission .................. 15
Transfer of Vocational-Technical/Academic Credits 28
Tuition ........................................... 17
Tutorial Assistance .......................... 12
Unclassified Students Status—Graduate Courses 126
Undergraduate Enrollment in 500-level Courses .. 128
University-wide Courses ..................... 27
Veterans Affairs, Office of ................. 12
Veterans Benefits—Eligibility ............... 23
Visiting Scientist Program ................... 9
Vo-Tech School Admissions Requirements ... 16, 143
Waiving Prerequisites ......................... 26
Wastewater Technology Courses .......... 148
Welding Courses ................................ 146
WICHE ............................................ 8
Student Exchange ............................ 10
Graduate Fellows .............................. 10
Wildlife Management Faculty Institute .... 25
Withdrawing from Courses ................. 24
Withdrawing from the University .......... 25
Zoology Courses ............................... 40
BOISE STATE UNIVERSITY FOUNDATION

The Boise State University Foundation is a non-profit corporation chartered by the State of Idaho for charitable and educational purposes, and to otherwise serve the University.

The objectives of the Foundation are to assist in developing and increasing the facilities of the University by encouraging gifts of money, property, works of art, historical papers and documents and other materials having educational, artistic, or historical value. Such gifts should be conveyed to the Foundation, with proper stipulation as to their use. The Foundation, through its officers and members, will be glad to confer with intending donors regarding suitable clauses to insert in wills and suitable forms of gifts and memorials. The establishment of scholarships is particularly welcomed. Any gifts or bequests can be given suitable memorial names.

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

Mr. James D. McClary, President, Boise
Mr. Donald M. Day, Vice-President, Boise
Mr. John G. Grant, Secretary, Boise
Dr. Asa M. Ruyle, Treasurer, Boise
Mr. Earl F. Chandler, Director, Boise
Mr. Tom L. MacGregor, Director, Boise
Mr. Fred P. Thompson, Jr., Director, Boise
Mr. John H. Keiser, ex officio, Boise State University, Boise
Mr. J. Charles Blanton, Legal Advisor, Boise
Mr. David T. Lambert, Executive Secretary, Boise State University, Boise

Information may be obtained by contacting the Executive Secretary of the Boise State University Foundation, Inc. at (208) 385-3276.