PART IV
DEPARTMENTS OF INSTRUCTION
ART

1-2-3  Art Appreciation  2 credits  Each term
A study of artistic expression in the fields of sculpture, painting and architecture, and the minor arts from the earliest times to the present. The second term begins with the Italian Renaissance. The spring term is devoted mainly to Modern Art and contemporary trends in America and Europe. The course is completely illustrated with lantern slides, prints and reproductions. Two lectures per week.

11-12-13  Art Structure in Design and Color  2 credits  Each term
Purely creative dark-light design carefully planned to give the student an understanding of the structural organization underlying drawing, painting, sculpture, commercial and industrial art, and interior decoration. Correlating the design activities, a scientific and esthetic study of the relationship, order, and movements in prismatic and modified colors is made. Four hours of studio per week.

25  Perspective  2 credits  Fall term
A study of perspective for the student of commercial art, illustration or architecture. Pen and ink and wash drawing will be introduced in this course. Four hours studio per week.

21-22  Lettering and Showcard  2 credits  Fall and winter term
Comprising a study of lettering technique and various alphabets. Modern styles of letters will be emphasized along with spacing and lay-out for show cards. Four hours studio per week.

23-24  Poster  2 credits  Winter and spring term
Problems in poster display involving lettering and simple illustration. A study of color will be made in relation to poster and display based on the psychology of advertising. Prerequisites: 21 and 22. Four hours studio per week.

32  Interior Decoration  2 credits  Winter term
Application of art principle to interiors. Special consideration of those principles to homes. Creative and original treatments of practical interior problems are emphasized. Two lectures per week.

31-33  Public School Art  2 credits  Fall and spring terms
For students expecting to teach in the elementary schools. This course is especially designed to help prospective teachers construct outlines of courses for creative art activities in the elementary grades. Progressive methods and materials conducive to free and spontaneous expression are stressed. Fall quarter: Two laboratory periods per week. Spring quarter: Two lecture periods per week.

41-42-43  Elementary Drawing and Painting  2 or 3 credits  Each term
Drawing from still life, cast and nature in charcoal, water color and oil. Fundamentals of pictorial composition are stressed. Four or six hours studio per week.

51  Industrial Design and Crafts  2 credits  Fall term
The application of design through the fundamental processes of important crafts such as stenciling, blockprinting and silk screen process on paper and textiles, sandblasting on wood and glass. Emphasis upon the development of appreciation for hand or machine-made products. (Due to the quantity and specialized nature of the materials and equipment used in this course, there is a special fee of $2.50 per credit hour.) Four hours of studio per week. Prerequisite: Art 11-12-13.
COURSES

**61-62-63 Advanced Commercial Art**  2 credits  Each term

This course involves special assignments in various techniques employed in advertising and commercial art; problems in layout, typography, and reproduction processes will be emphasized. Prerequisite: 21-22-23. Advisable to have had design and color composition and elementary drawing. Four hours of studio per week.

**71-73 Landscape Painting**  1 credit  Fall and spring term

The class meets out-of-doors and draws or paints direct from nature. It is planned for beginners and advanced students. Work may be done in any medium the student is capable of handling. The class meets for a three-hour period once each week.

**81-82-83 Advanced Painting and Pictorial Composition**  2 or 3 credits  Each term

This course includes painting in oil, water color and pastel of such subject matter as still life, figure and portrait. Emphasis is placed upon Space-Form interpretation, and its relation to the principles of composition. Prerequisite: Art 41-42-43 or its equivalent. Four or six hours studio per week.

**BACTERIOLOGY**

**51-52-53 General Bacteriology**  4 credits  Each term

A general survey of the field of bacteriology, designed for students in the general science courses and as a foundation for advanced work in the subject. Two lectures and two 2-hour laboratory periods a week. Prerequisite: Chemistry 1-2-3. Chemistry 71 is recommended.

**63 Microbiology**  4 credits  Spring term

Designed for pre-nursing and medical technology students. A study of the principles of bacteriology, sterilization and disinfection, control of communicable diseases, factors in infection and resistance, and important aspects of common infectious diseases. Examination of food, water, milk, blood and excreta. Two lectures and two 2-hour laboratory periods a week.

**BIOLOGY**

**1-2-3 Biology**  4 credits  Each term

An introduction to the various kinds of plants and animals, including an interpretation of the classifications, morphology, physiology, ecology, embryology, genetics, and evolution. Laboratory work will include dissection of the usual representative major groups of plants and animals and exercises to demonstrate topics discussed in the lectures. Two lectures, one recitation period and two 2-hour laboratory periods per week.

**BOTANY**

**1-2-3 General Botany**  4 credits  Each term

A laboratory and lecture course on the structure of leaves, stems and roots; relation of plants to their environment; identification of some common weeds and trees. Reproduction and heredity in plants, bacteria and fungi in relation to human welfare; survey of the great groups of plants. Two lectures, one recitation period and two 2-hour laboratory periods per week.
12-13 Systematic Botany 4 credits Winter and spring terms
A laboratory, field and lecture course. Emphasizes plants of importance in forestry and range management. The various systems of classification, the use of keys and manuals will be studied. Prerequisite: Botany 1-2-3. Two lectures and two 2-hour laboratory periods per week.

23 Trees and Shrubs 3 credits Spring term
A course designed to acquaint the student with the more common native and cultivated trees and shrubs of the region with emphasis being placed on their identification, growth habits and soil preferences and their uses in landscape planting. One lecture and two 2-hour laboratory periods per week.

BUSINESS ADMINISTRATION

GENERAL BUSINESS

1-2 Introduction to Business 3 credits Fall and winter terms
A survey course designed to acquaint the student with the various phases of business. Emphasis is placed on methods and problems of launching an enterprise, managerial control, labor relations, pricing, financing and marketing.

Government relationships with business are studied. Lectures, class discussion and field trips.

11-12-13 Principles of Accounting 3 credits Each term
An introduction to the science of accounting. A survey of bookkeeping fundamentals, the uses of various accounting records, and the construction and interpretation of financial statements. Theory and mechanism of modern accounting and account interpretation. A previous study of bookkeeping is not necessary, but advisable. One lecture and two 2-hour laboratory periods per week.

21 Business Mathematics 3 credits Fall term
Comprehensive review and drill in fundamentals of arithmetic, and concrete relation to business usage. Decimals, fractions, percentage, interest, discount, etc. Practical problems in billing, figuring profits, markups, markdowns, trade discounts, cost and taxes. Interpretation of graphs and statistics; promissory notes; installment buying; securities, annuities; amortization. Required for business majors.

23 Business Problems 3 credits Spring term
A survey course of business problems in the field of management, organization, buying and selling, salesmanship and advertising. The student will select an individual business problem, approved by the instructor, prepare a research paper from all available sources, and present it for round-table discussion. Prerequisites: Business 61-62 and 71 or 72. Sophomore standing.

42-43 Commercial Law 3 credits Winter and spring terms
A study of the nature and classification of the law, the courts, and court procedure, with particular reference to contracts, agency, personal property, negotiable instruments, and business organizations.

51 Cost Accounting 3 credits Fall term
Fundamentals and principles of accounting applied to cost accounting. Job cost, process cost, standard cost systems, and miscellaneous cost factors, such as government contracts, are studied. One lecture and two 2-hour laboratory periods per week. Prerequisite: Business 11-12-13 or two years of high school bookkeeping.
52 Federal Tax Course 3 credits Winter term
A study of federal tax laws pertaining to the individual and to corporations; the accounting records necessary and the relationship of accounting to the federal tax laws. Two lectures and one laboratory period a week. Prerequisite: Business 11-12-13 or two years of high school bookkeeping.

53 Auditing 3 credits Spring term
A study of the verification, analysis and interpretation of accounting records. One lecture and two 2-hour laboratory periods a week. Prerequisite: Business 11-12-13 or two years of high school bookkeeping.

61-62 Marketing 3 credits Fall and winter terms
Description and analysis of the marketing processes; study of cooperatives, wholesalers and retailers. Methods, policies and problems involved in marketing, with an evaluation of marketing institutions and middlemen according to the functions they perform. Lectures, class discussion and field trips.

63 Retail Merchandising 4 credits Spring term
Types of retail stores; problems of store location, buying, merchandising, organization and management. Problems of retail store operation; salesmanship, advertising, display, personnel administration, methods of control, etc. Lectures, class discussion and field trips. Prerequisite: Business 2-3 or 61-62.

71 Principles of Salesmanship 3 credits Fall term
A comprehensive presentation of the principles of modern selling, prefaced by a brief history of salesmanship and a justification of its position of importance in present-day distribution. The psychological aspects of selling are fully treated. Selling presented as both an art and a science. Time is devoted in class to the actual selling of various articles by the students, a practical application of the principles taught.

72 Principles of Advertising 3 credits Winter term
History, objectives and policies of advertising; a study of media, regulation of advertising; coordination of advertising with other merchandising factors. A psychological study of the fundamental and social instincts of the human individual and their relation to the creation of effective advertising. The art department will conduct a part of this course and will feature problems in color, practical assignments in layout and typography; discussions on the various methods of reproduction, line cuts, half-tones, and color processes.

73 Elements of Statistics 3 credits Spring term
Principles and practical application of statistical methods; visual charts of various types; simple averages, central tendencies, correlation, etc.; construction and interpretation of statistical indices, graphs and charts.
Useful in economics and all social and natural sciences. Prerequisite: Business 1 or Math. 1.

82-83 Business Writing 3 credits Winter and spring terms
Theory of effective communication of ideas through the medium of the written word; sales letters; collection letters; publicity; reports; correspondence. Emphasis placed on correct English usage and clarity. Required of all semi-professional business majors. Prerequisite: Eng. 1-2-3 and typing ability.
Secretarial Science

5-6-7 Beginning Shorthand 4 credits Each term
A beginning course in Gregg shorthand. Emphasis is placed on theory, writing skill and vocabulary development; skill in transcription is developed.

55-56-57 Intermediate Dictation 4 credits Each term
Emphasis is placed on the building of a broad shorthand vocabulary and the development of high speed in dictation with rapid transcription: Prerequisite: Business 5-6-7, with C grade or better, or dictation speed of 80 words per minute.

85 Office Practice 3 credits Fall term
Training in ordinary office routine, including the use of common duplication machines, filing, telephoning, and the use of various business forms. Open to second-year secretarial science students only.

86 Office Technique and Management 3 credits Winter term
A study of organization and management of an office, including personnel problems, records, ratings, the allocation of functions and responsibilities, and office supervision. Open to business administration and secretarial science students only.

87 Secretarial Science 3 credits Spring term
Trait and personality development, intensive training in secretarial work on the private and executive secretarial level. Open to second-year secretarial science students only.

/ CHEMISTRY

1-2-3 An Introduction to General Chemistry 4 credits Each term
Lectures, recitations, and laboratory exercises. An introduction to the fundamental principles of chemistry, together with a study of the properties of the most common elements and compounds. High school chemistry is not required as a prerequisite. This course is designed primarily for those students whose interests may lie in fields other than chemistry. Two lectures, recitation period and two 2-hour laboratory periods per week.

11-12-13 General Chemistry 5 credits Each term
A thorough study of the fundamentals and principles of chemistry involving their application to various elements. The third term includes qualitative analysis on the semi-micro scale. This course is designed for students majoring in Chemistry, Pre-Medics, Engineering, Pharmacy and Science. Three lectures and two 3-hour laboratory periods per week. Recitations are included in the laboratory sessions.

31-32-33 Inorganic Chemistry 2 credits Each term
A study of the occurrence, metallurgy, chemical and physical properties and compounds of the elements in the Periodic Table. This course is especially suited for engineers and chemistry majors. The subject matter includes the modern theories involved in inorganic chemistry. Prerequisite: Chemistry 11-12-13.
COURSES

51-52-53 Introductory Analytical and Theoretical Chemistry 4 credits Each term
An intensive review of the fundamental laws and theories of chemistry. These are further applied and tested in the laboratory through a fall term of qualitative analysis and winter and spring terms of quantitative analysis including both gravimetric and volumetric methods. The lecture work will also include an elementary study of a number of selected topics in physical and theoretical chemistry. Two lectures and two 3-hour laboratory periods per week. Prerequisite: Chemistry 1-2-3 or 11-12-13.

71-72-73 Elementary Organic Chemistry 3 credits Each term
An introductory course covering the fundamental principles and the more important applications of organic chemistry. The laboratory work will illustrate the technique and the typical methods for the preparation and study of simple organic compounds. The course will satisfy the organic chemistry requirements of certain curricula in Home Economics, Pre-Nursing, Pre-Dental and Pre-Medical studies. Two lectures and one 3-hour laboratory period per week. Prerequisite: Chemistry 1-2-3 or 11-12-13.

ECONOMICS

1-2-3 Principles of Economics 3 credits Each term
Introduction to economic theory and an analysis of the operation and problems of the contemporary modern economic system.

EDUCATION

1 Introduction to Education 2 credits Spring term
This is a general introductory course in education which also tries to interpret older philosophies of living and education in the light of a democracy. An attempt is made to develop a modern philosophy of education in view of social problems and social changes now apparent. Teachers' responsibilities are stressed in this course.

2 Audio-Visual Aids in Education 2 credits Fall term
Motion pictures, graphic materials, slidefilms, lantern slides, opaque projection, field trips, and auditory aids are studied in this class with practical experience in the operation of leading makes of projectors. Open to sophomore cadet teachers.

3 Schoolroom Management 2 credits Fall term
This course deals with actual class-room situations. It not only deals with the physical features of school management but considers studying, recitation, discipline, curricula and personality. Rural school problems are considered as well as city school problems.

11 Penmanship Methods 2 credits Fall term
Methods of teaching manuscript and cursive writing in the elementary grades. Open to sophomore cadet teachers.

23 Idaho School Law, Civics and Manual 2 credits Spring term
Idaho School Law, the state manual and course of study, and the civil government of Idaho. This course is required of all people who expect to be recommended for a Teacher's Certificate in Idaho.

32 Child Development 3 credits Winter term
This is an applied child psychology course with emphasis on various factors that influence the development of children: heredity, glands, emotions, nutrition, motor control, perception, memory, thinking and personality. Prerequisite: Psychology 1 and 2.
<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
<th>Term</th>
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<tbody>
<tr>
<td>Curriculum and Methods</td>
<td>3</td>
<td>Each term</td>
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<tr>
<td>Curriculum and methods of teaching in the elementary grades will be considered in</td>
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<tr>
<td>this course. All texts adopted by the state and teacher's manual for each text are</td>
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<tr>
<td>carefully studied. Open to sophomore cadet teachers.</td>
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<tr>
<td>Elementary School Library</td>
<td>1</td>
<td>Fall term</td>
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<tr>
<td>A course to acquaint students with the organization and utilization of the</td>
<td></td>
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<td>elementary school library.</td>
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<tr>
<td>Observation and Directed Teaching</td>
<td>3</td>
<td>Each term</td>
</tr>
<tr>
<td>Sixty hours of observation and one hundred twenty hours of supervised teaching.</td>
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<td>Part of this work will be done in the schools of Boise, the other part in</td>
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<tr>
<td>especially selected rural schools in the vicinity of Boise. Open to sophomore</td>
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<tr>
<td>cadet teachers.</td>
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<tr>
<td>Typing</td>
<td>1</td>
<td>Each term</td>
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<tr>
<td>Recommended elective for all Education majors without previous typing training;</td>
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<tr>
<td>students who have gained sufficient proficiency to type a minimum of 50 words</td>
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<td>per minute will not need to take this course.</td>
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* See Business.

| Engineering Lectures                                                             | 1       | Fall term  |
| A series of lectures given by practicing engineers of Boise and vicinity.         |         |            |
| Engineering Drawing                                                              | 3       | Each term  |
| Freehand lettering; use of drawing instruments and equipment; orthographic       |         |            |
| drawings to include the principal, section and auxiliary views.                  |         |            |
| Projections, Revolution, Dimensioning, Fasteners, Working Drawings. Descriptive   |         |            |
| Geometry. Six laboratories.                                                      |         |            |
| Machine Drawing                                                                  | 2       | Spring term|
| Detail and assembly drawings of machine parts. Four hours of laboratory.         |         |            |
| (Required by M.E. students.) Prerequisite, Engr. 1, 2, 3.                        |         |            |
| Engineering Problems                                                             | 2       | Winter and spring terms |
| Training in methods of computation and analysis of engineering problems.         |         |            |
| Two-hour laboratory. Open to freshmen only. Enrollment in Math. 12.              |         |            |
| Machine Tool Laboratory                                                           | 2       | Winter term |
| Use of machine tools; theory and practice. Six hours laboratory per week.        |         |            |
| Mechanism                                                                        | 4       | Spring term |
| The elementary combinations of which all machines are composed. Communication of  |         |            |
| motion by various mechanical linkages. Two lectures, six hours laboratory per    |         |            |
| week. Prerequisite, Math. 51, 52.                                                |         |            |
| Materials and Processes                                                           | 2       | Spring term |
| Brief treatment of physical properties and uses of engineering materials,        |         |            |
| description of methods, materials and terminology (required of M.E. students).   |         |            |
| Two lectures per week.                                                           |         |            |
| Introduction to Electrical Engineering                                           | 4       | Winter term |
| Theory of direct current and magnetic circuits. Prerequisites: Physics 1 or 51   |         |            |
| and Math 11. Three lectures, one laboratory per week.                            |         |            |
53 Elementary Electronics 3 credits Spring term
Elementary theory of electronics and application of vacuum tubes. Three lectures. Prerequisite: Engineering 52.

57 Curves and Earthwork 3 credits Winter term
Theory of simple, compound and reverse curves; theory of the spiral easement curve and the vertical curve. Mass diagram and earthwork computation. Three lectures per week.

62 Mechanics (Statics) 3 credits Winter term
Composition and resolution of forces; laws of equilibrium; stresses in frames; centers of gravity; moments and products of inertia; analytic and graphic methods of solution. Three lectures per week. Prerequisites: Mathematics 51 and Physics 51.

71 Plane Surveying 5 credits Fall term
Theory and use of transit, level, and minor instruments. Land surveying. Government methods of laying out public lands. One recitation and four 3-hour periods of field work and computation per week. Prerequisites: Mathematics 11 and 12, Engineering 1.

75 Surveying 4 credits Spring term
Theory and use of plane table, transit and stadia; triangulation and base line measurement; topographic mapping; route and surveying; star and solar observations. One lecture and three field periods per week. Prerequisite: Surveying 71.

ENGLISH

Placement Test—Each student entering college for the first time shall be required to take a standard English Placement test for the purpose of demonstrating his degree of proficiency in language fundamentals. Students transferring from other schools which require such a test may present their scores in lieu of this requirement.

1-2-3 Freshman Composition 3 credits Each term
The standard course in composition principles designed to fulfill conventional lower division group requirements. The general aim of the course is proficiency and skill in writing and the development of special techniques essential to successful expression. Class work is supplemented by individual conferences for guidance and criticism. Ample provision is made for the study of effective writing as well as practice in producing it.

7-8-9 Advanced Writing 2 credits Each term
First quarter: simple description, character sketches through description, dialogue and monologue, short feature articles, interviews; second quarter: local color studies, short feature articles, interviews; third quarter: short story, poetry.
This course is not open to new students for the second and third quarters.

11-12-13 Fundamentals of Speech 2 credits Each term
An elementary course in public speaking designed to strengthen and develop the confidence and poise of students, and to train the voice through speech experiences and exercises. Various types of speech experience will be offered, including: conversational, group, round-table, forum, debate, and formal speech.
15 Pronunciation 1 credit Fall term
A study of the pronunciation of French, Spanish, Italian and German. This course is designed to teach the correct pronunciation of these languages for the benefit of students of voice and public speaking and others who are interested in knowing how to pronounce foreign words correctly. Class limited to ten members. Meets twice a week for one credit.

17-18-19 Dramatic Literature 2 credits Each term
A chronological survey of dramatic literature from classical Greece to modern times. Students will read selected great plays from each significant period. The course is designed to acquaint the student with important dramatic types, aid him in critical evaluation of dramatic literature, and demonstrate to him the continuity of development in the theater. Recommended for drama majors.

21-22 Debate 1 credit Fall and winter terms
Participation in inter-college debate.

25-26-27 Play Production 2 or 3 credits Each term
Principally a laboratory course for those interested in the technical production of plays. Students will be given assignments in acting, costuming, lighting, designing, building, stage management, or business management for the plays presented by the college. Classes will be limited to those students actually assigned to productions or those recommended by the director of drama.

41-42-43 Survey of American Literature 2 credits Each term
This course will cover the main points in American literature from earliest colonial times to the twentieth century and our own times. The most important authors of each period, in fiction, essay and poetry, will be studied. Emphasis will be placed on the literature as a reflection of the American ideals and thought. Lectures and extensive reading.

51-52-53 Survey of English Literature 3 credits Each term
A study of the development of types and movements in English literature, and of the conditions which have surrounded their growth. Lectures. Open as an elective to all sophomores; recommended for all sophomores entering senior colleges of business administration, letters and science, law and education (for prospective teachers of English.)

54-55-56 Radio Program Production and Technique 2 credits Each term
An introduction to the field of broadcasting, primarily for advanced speech and drama students interested in practical experience in radio program building. Emphasis is on microphone technique and studio laboratory work on all types of radio programs. Studio experience is offered in cooperation with local radio stations.

61-62-63 Introduction to Modern Literature 3 credits Each term
A study of the trends of style and thought of modern and contemporary literature of England and America. The novel will be studied the first term, poetry the second, and the drama the third. Open as an elective to all sophomores, but not recommended as a substitute for English 51-52-53 for students in the B.A. and Education curricula.

66-67 Survey of World Literature 3 credits Each term
A course affording an opportunity for the student to acquaint himself with a selected sampling of the world's greatest literature, exclusive of English and American authors. Classics in translation from Homer to the Twentieth Century. Recommended as a supplementary course to English 51-52-53 for the A.B. curriculum.
## COURSES

### FORESTRY

<table>
<thead>
<tr>
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<th>Credits</th>
<th>Term</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>General Forestry</td>
<td>2</td>
<td>Fall term</td>
<td>A survey of the technical field of forestry with emphasis on timber production. Two class periods per week; occasional field trips.</td>
</tr>
<tr>
<td>2</td>
<td>General Forestry</td>
<td>2</td>
<td>Winter term</td>
<td>Brief survey of range, watershed, game and recreational forest management to be concluded by a study of the essentials of American forest policy, law, etc. Prerequisite: Forestry 1.</td>
</tr>
<tr>
<td>10</td>
<td>Dendrology—Conifers</td>
<td>3</td>
<td>Spring term</td>
<td>The identification, classification, geographical range and utilization of the coniferous trees of the U.S. Two class periods and one laboratory period per week.</td>
</tr>
<tr>
<td>11</td>
<td>Dendrology—Hardwoods</td>
<td>3</td>
<td>Fall term</td>
<td>The identification, classification, geographical range and utilization of the broad-leaved trees of the U.S. Two class periods and one laboratory period per week. Prerequisite: Forestry 10.</td>
</tr>
<tr>
<td>50</td>
<td>Silvics</td>
<td>2</td>
<td>Fall and winter term</td>
<td>Forest ecology—a study of the influence of site factors upon the individual tree and communities of trees. Three class periods per week; occasional field trips. Prerequisites: Forestry 1, 2, 10, Botany 1, 2, 3.</td>
</tr>
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</table>

### FRENCH

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-2n-3*</td>
<td>Elementary French</td>
<td>4</td>
<td>Each term</td>
<td>Oral method with a minimum of formal instruction in grammar. Emphasis on conversation, diction and pronunciation.</td>
</tr>
<tr>
<td>11-12-13</td>
<td>Intermediate French</td>
<td>4</td>
<td>Each term</td>
<td>The aim of this course is to give the student an accurate and fluent reading knowledge of French prose and to increase his ability in conversation. Comprehensive review of grammar with emphasis on idioms and diction. Reports on collateral reading. Prerequisite: French In-2n-3 or two years of high school French.</td>
</tr>
<tr>
<td>51-52-53</td>
<td>French Composition and Conversation</td>
<td>2</td>
<td>Each term</td>
<td>Practical, oral and written work based on extensive collateral reading. Class conducted entirely in French. Prerequisite: French 11-12-13 or four years of high school French.</td>
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### GEOLOGY

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<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>11-12</td>
<td>Physical Geology</td>
<td>4</td>
<td>Fall and winter terms</td>
<td>An introductory course designed to acquaint the student with the causes and effects of rock weathering; wind, water and ice erosion and their depositions; the development of landscapes or topographies; internal forces of the earth. Laboratory periods are devoted to the study of topographic maps of type areas and examination of rock samples collected on field trips. Three lectures and one three-hour laboratory per week.</td>
</tr>
</tbody>
</table>
13 General Geography 3 credits Winter or spring term
A study of the character and distribution of the elements or factors
of natural environment such as climate, topography, soils, minerals,
plant and animal life together with the human adjustments that are
made to these factors. The more knowledge of these the better the
adjustments should be and the more advanced the civilization.
This course should appeal to aviators, engineers, business and edu-
cation students as well as general students. Two lectures and one
laboratory period per week.

15 Economic Geography 4 credits Spring term
A study of regions and resources; factors affecting the location of
industries; the geographical distribution of the natural resources and
the effect on national growth and international trade.

52-53 General Mineralogy 3 credits Winter and spring terms
The mineralogically more important crystal systems are studied
by the use of natural crystals. Two or three months are used to study
and identify minerals by their physical properties; especially those
properties most useful in field recognition. A like amount of time is
devoted to the chemical study of minerals and blowpipe analysis.
Geologic occurrence, association, alternation, and uses of minerals are
included with the aim of giving a comprehensive understanding of the
mineral kingdom. Two lectures and one laboratory or field trip per
week. Prerequisite: Geology 11-12 and Chemistry 11-12-13 or 1-2-3.

GERMAN

1n-2n-3* Elementary German 4 credits Each term
Grammar, graded readings, early introduction of idioms and
simple conversation, with emphasis on pronunciation.

11-12-13 Intermediate German 4 credits Each term
Reading of German texts with a review of grammar, composition,
translation of English into idiomatic German, and conversational
exercises, and reports on collateral reading. Prerequisite: German
1n-2n-3 or two years of high school German.

51-52-53 Composition and Conversation 2 credits Each term
Practical oral and written work based on extensive collateral read-
ing in the field of both literature and science. Class conducted entirely
in German. Prerequisite: Intermediate German or 4 years of high
school German.

HISTORY

1-2-3 Classical Civilization 3 credits Each term
The history and civilization of Ancient Greece and Rome, with
emphasis on the social and political institutions.

21-22-23 Modern Europe 3 credits Each term
Political, social and economic history of Europe from the Renais-
sance to the present, with emphasis on the period from Congress of
Vienna to the present time.

31-32-33 History of the Americas 3 credits Each term
A study of the Americas from discovery to the present time.
Emphasis on the transplanting of European institutions to the New
World. The course aims at the background for understanding the
international relations of the United States and Hispanic America.

* No credit will be allowed toward graduation for the first and second terms of any
beginning foreign language until the third term is completed.
COURSES

35-36-37 Contemporary Affairs 1 credit Each term
A discussion group primarily for students enrolled in American or European history, who wish additional work in these fields.

52-53 History of Idaho and the Pacific Northwest 2 credits Winter and spring terms
A history of the Old Oregon Country, with emphasis on the Idaho area. The basic topics for study are: early explorers of the Pacific; international contest for fur trade in the region; the colonization movement and placer gold area; founding of territories and states. Prerequisite: History 21-22-23 or 31-32-33.

61-62-63 History of England 2 credits Each term
A survey of the history of England from the Anglo-Saxon invasion, with special emphasis on the constitutional, literary and cultural aspects.

HOME ECONOMICS

1 Introduction to Home Economics 3 credits Fall term
An orientation course for college women dealing with academic and social adjustment, personal grooming, and survey of vocational opportunities in home economics. Open to all college women. Three hours' discussion per week.

11-12-13 Clothing: Selection, Purchase and Care 3 credits Each term
Study of the problems involved in being suitably dressed on varying levels of income; care and selection of fabrics and clothing; may include methods and techniques for rehabilitating household furnishings. One hour discussion and two 3-hour laboratory periods per week.

51-52-53 Foods and Nutrition 3 credits Each term
Problems involved in feeding the family, emphasizing the planning, preparation and serving of nutritionally adequate, appetizing and attractive meals. Prerequisite: Chemistry 1-2-3. One hour discussion and two 3-hour laboratory periods per week.

61 Housing 3 credits Fall term
Social and economic study of the types, organization, plan, and equipment of modern housing in relation to family living; consideration of present housing needs and practices affecting housing construction and home ownership. Two lectures and two laboratory periods per week.

62 House Planning 3 credits Winter term
A study of problems involved in planning for economy, comfort and beauty in small house construction; detail drawings; consideration of the house and its environment; building materials; structural details, etc. Two lectures and two laboratory periods per week.

63 Interior Design and House Furnishing 3 credits Spring term
Aims to develop appreciation of beauty and suitability in home furnishings, materials and processes involved in construction and selection of home furnishings. Two lectures and two laboratory periods per week.
JOURNALISM

1-2-3 Journalism  2 credits  Each term

An introductory course in the fundamentals of newspaper practice. Class members will be given assignments on college publications.

First term will be devoted to study and practice in story writing, interviewing, reporting, copyreading, editing, proofreading and newsroom projects.

Second term will be devoted to an extension of the first term's work, with emphasis on newspaper policy, makeup, editorial writing, headlines, artwork, photography, features, and advertising layout.

During the third term students will be given individual projects on college publications and lectures will cover the history, development and social significance of American journalism, stressing problems of censorship, propaganda, libel, and freedom of the press.

MATHEMATICS

A Elementary Algebra  No credit  1 1/2 terms

Five hours a week.

B Plane Geometry  No credit  1 1/2 terms

Five hours a week.

C Solid Geometry  No credit  1 term

Three hours a week.

D Intermediate Algebra  No credit  1 term

Three hours a week. Prerequisite: One year of high school algebra or Mathematics A.

1-2-3 Freshman Mathematics  4 credits  Each term

College algebra, trigonometry, and analytic geometry. Required in whole or in part of all students taking a mining, four-year forestry, or pre-medical curriculum. (See Part III of catalog.) Prerequisites: A year and a half of high school algebra or Mathematics D and plane geometry.

11-12-13 Freshman Mathematics (Engineering)  5 credits  Each term

Subject matter same as Mathematics 1-2-3, with additional emphasis on computation and upon construction and interpretation of graphs. Required for pre-engineering students. Prerequisites: A year and a half of high school algebra, plane and solid geometry.

51-52-53 Calculus  4 credits  Each term

Fundamental principles and applications of differential and integral calculus. Prerequisite: Mathematics 1-2-3 or 11-12-13. Four lectures a week.

MUSIC THEORY

PRIMARILY FOR FRESHMEN

1-2-3 Beginning Harmony  3 credits  Each term

Intervals, triads, part-writing of given melodies and basses in four voices. Covers dominant seventh and ninth chords, all inversions of triads and seventh chords. Neapolitan sixths, secondary sevenths, and suspensions. Prerequisite: Knowledge of key signatures and scales.
<table>
<thead>
<tr>
<th>COURSES</th>
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<tbody>
<tr>
<td><strong>1A-2A-3A</strong></td>
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**PRIMARILY FOR SOPHOMORES**

| **51-52-53** | Advanced Harmony | 2 credits | Each term |
| | Passing tones, secondary sevenths, and inversions, unprepared suspensions, embellishments, modulation, organ point, altered chords, anticipations, chords of the eleventh and thirteenth. Prerequisites: Beginning Harmony 1-2-3. |
| **54-55-56** | Advanced Ear Training | 1 credit | Each term |
| | Advanced melodic and rhythmic dictation. Two, three and four-part singing in treble and bass clefs. More advanced chromatic problems and modulation. |
| **57-58-59** | Advanced Keyboard Harmony | 2 credits | Each term |
| | Harmony applied to the keyboard; practice in playing written chords and progressions. Correlates with Harmony 51-52-53. |
| **60-61-62** | History of Music | 2 credits | Each term |
63-64  **Public School Music Methods**  
2 credits  
Fall and winter term

Materials, methods and problems relating to classroom music. Elementary School Methods (grades 1 to 6); Junior and Senior High School methods; conducting, technique of organization. Course 64 is required of those preparing for high school teaching.

**APPLIED MUSIC**

Applied Music does not come under general tuition. See schedule of fees. Students requesting credit in applied music must take examinations before the end of the second week in each term, except those enrolled in courses followed by a letter, or preceded by a zero.

Students must appear at least once each term in a college recital to receive credit.

**TECHNIQUE PREREQUISITES**—For all applied music, instrumental and vocal: Scales in major and minor, rhythms of 2, 3, 4, at M.M.–80.

Three-toned arpeggios in major and minor, rhythms of 2, 3, 4, at M.M.–80.

**PIANO PREREQUISITE**—Kullack or Clementi sonatinas. A two-part invention of Bach.

<table>
<thead>
<tr>
<th>Piano</th>
<th>2 or 4 credits</th>
<th>Each term</th>
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<tbody>
<tr>
<td>Scales, arpeggios, octaves, Czerny, Bach two-part inventions, Haydn, Mozart sonatas. Easy compositions of Mendelssohn, Chopin, Schumann.</td>
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<table>
<thead>
<tr>
<th>Piano</th>
<th>1 credit</th>
<th>Each term</th>
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<tbody>
<tr>
<td>Elective course for all college students with elementary ability. Not to be taken by music majors.</td>
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<thead>
<tr>
<th>Class Piano</th>
<th>1 credit</th>
<th>Each term</th>
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<tr>
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<tr>
<th>Organ</th>
<th>2 or 4 credits</th>
<th>Each term</th>
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<tr>
<td>W. T. Best’s “Art of Organ Playing,” Bach’s short organ works, easy classic and modern compositions. Short fugal works will be expected of the pupil.</td>
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<tr>
<th>Organ</th>
<th>2 or 4 credits</th>
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<tr>
<td>Larger organ works of Bach, including his more difficult fugal compositions. Compositions of Buxtehude and representative 19th century and modern compositions.</td>
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<th>Organ</th>
<th>1 credit</th>
<th>Each term</th>
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**Violin**

Prerequisite: Studies by Yaser and Dort. Schubert sonatinas. Concertinos by Sitt and Accolaij.
COURSES

31-32-33 Violin 2 or 4 credits Each term

81-82-83 Violin 2 or 4 credits Each term

031-032-033 Violin 1 credit Each term
Elective course for all college students with elementary ability. Not to be taken by music majors.

31A-32A-33A Class Violin 1 credit Each term
Voice
Prerequisite: Sight reading moderately hard music; singing of even, flexible scales, singing of a group of good songs from memory.

34-35-36 Voice 2 or 4 credits Each term
Breath control, tone production, diction, rhythm. Vaccai, or some similar technique book.

84-85-86 Voice 2 or 4 credits Each term
Continuation of first-year technique. Marchesi, or a similar method. Artistry of phrasing and interpretation. Art songs of Schubert, Schumann, etc. Classics and moderns.

034-035-036 Voice 1 credit Each term
Elective course for all college students with elementary ability. Not to be taken by music majors.

34A-35A-36A Class Voice Lessons 1 credit Each term
This course is recommended for students who plan to teach in rural or city schools.

Cello
Prerequisite: Studies by Percy Such or Dotzauer; easy pieces.

37-38-39 Cello 2 or 4 credits Each term
Major and minor scales in three or four octaves. Selected studies by Carl Schroeder, Dotzauer, Lee, Grutzmacher, and Buchler. Student concertos by Romberg and Goltermann. Classic sonatas by Sammartini, Eccles, Cervetto, etc., and other compositions of medium difficulty.

87-88-89 Cello 2 or 4 credits Each term
Four octave scales in different combinations of bowings. Studies by Franchomme, Merk, Kummer, Grutzmacher, and Dotzauer. Sonatas by Grieg and Beethoven, and compositions of comparable difficulty, using the thumb.

037-038-039 Cello 1 credit Each term
Elective course for all college students with elementary ability. Not to be taken by music majors.

90-91-92 Woodwind Instruments 2 or 4 credits Each term
Credit in flute and clarinet only will be offered. First twenty-five studies of Baermann; Kuffner Op. 80. Langemus Clarinet Repertoire.