

DIVISION OF CONTINUING EDUCATION

BULLETIN

OREGON STATE SYSTEM OF HIGHER EDUCATION

1963-64

Evening Classes

Offered through

Continuation Centers

in Ashland, Corvallis,
Eugene, La Grande,
Monmouth-Salem,
Portland

DIVISION OF CONTINUING EDUCATION
BULLETIN

Oregon State System of Higher Education
1633 S.W. Park Avenue
Portland 1, Oregon — 97201

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**DIVISION OF CONTINUING
EDUCATION**

BULLETIN

**Continuation Centers
Evening Classes in Oregon
1963-64**

**Oregon State University
University of Oregon
Portland State College
Oregon College of Education
Eastern Oregon College
Southern Oregon College
Oregon Technical Institute**

**Continuation Centers
1633 S.W. Park Ave.
Portland 1, Oregon
Telephone 226-6601**



Undergraduate and graduate courses scheduled during the 1963-64 academic year by Continuation Centers of the Division of Continuing Education are derived from the curricula of the colleges and universities in the Oregon State System of Higher Education.

Table of Contents

	<i>Page</i>
ACADEMIC CALENDAR.....	7
ART.....	44
ART EDUCATION.....	48
ARCHITECTURE AND ALLIED ARTS.....	45
Landscape Architecture.....	81
Portland Art Museum.....	47
BUSINESS ADMINISTRATION	
Accounting.....	48
Business Administration.....	49
Business Education.....	56
Business Statistics.....	53
Finance and Business Economics.....	53
Marketing and Industrial Management.....	54
Office Administration.....	56
BUSINESS EDUCATION AND SECRETARIAL SCIENCE	
Business Education.....	56
Secretarial Science.....	56
DENTAL ASSISTING.....	57
EDUCATION.....	58
ENGINEERING	
Civil Engineering.....	69
Electrical Engineering.....	70
General Engineering.....	70
Industrial Engineering.....	70
Mechanical Engineering.....	70
FOREST MANAGEMENT.....	73
GENERAL STUDIES.....	73
GENERAL INFORMATION.....	39
HEALTH EDUCATION, PHYSICAL EDUCATION, AND RECREATION	
Health Education.....	75
Physical Education.....	76
Recreation.....	76
HOME ECONOMICS	
Clothing and Textiles.....	57
Foods and Nutrition.....	73
Home Economics, Home Economics Education.....	78
HUMANITIES.....	79
English.....	71
Philosophy.....	86
Speech and Speech Correction.....	98
Theater Arts.....	99
Writing.....	100

Table of Contents

INDUSTRIAL EDUCATION.....	81
JOURNALISM.....	79
LAW ENFORCEMENT.....	81
MUSIC	
Music.....	84
Music Education.....	86
SCIENCE	
Applied Science.....	91
Biology.....	92
Chemistry.....	92
General Science.....	93
Geology.....	93
Mathematics.....	82
Natural Resources.....	86
Oceanography.....	86
Physics.....	94
Science.....	94
Science Education.....	95
SOCIAL SCIENCE	
Anthropology.....	43
Economics.....	57
Geography.....	73
History.....	76
Political Science.....	84
Psychology.....	88
Religion.....	91
Social Science.....	95
Sociology.....	96
Social Work.....	95
ACADEMIC YEAR SCHEDULE.....	101

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Office of the State Board of Higher Education
Post Office Box 5175
Eugene, Oregon

* Board members are appointed to six-year terms by the Governor of Oregon with confirmation by the State Senate.

Oregon State System of Higher Education

The Oregon State System of Higher Education, as organized in 1932 by the State Board of Higher Education following a survey of higher education in Oregon by the U. S. Office of Education, includes all the state-supported institutions of higher education. The several institutions are elements of an articulated system, parts of an integrated whole. The educational program is so organized as to distribute as widely as possible throughout the state the opportunities for general education and to center on a particular campus specialized, technical, and professional curricula closely related to one another.

The institutions of the state system of higher education are Oregon State University at Corvallis, the University of Oregon at Eugene, Portland State College at Portland, Oregon College of Education at Monmouth, Southern Oregon College at Ashland, Eastern Oregon College at La Grande, and Oregon Technical Institute at Klamath Falls. The University of Oregon Medical School and the University of Oregon Dental Schools are located in Portland. The Division of Continuing Education, representing all the institutions, has offices in Ashland, Corvallis, Eugene, La Grande, Monmouth and Salem.

At Oregon College of Education, Southern Oregon College, and Eastern Oregon College, students may complete major work in teacher education or general studies or enroll in a pre-professional program. A major program in Business is offered at Southern Oregon College.

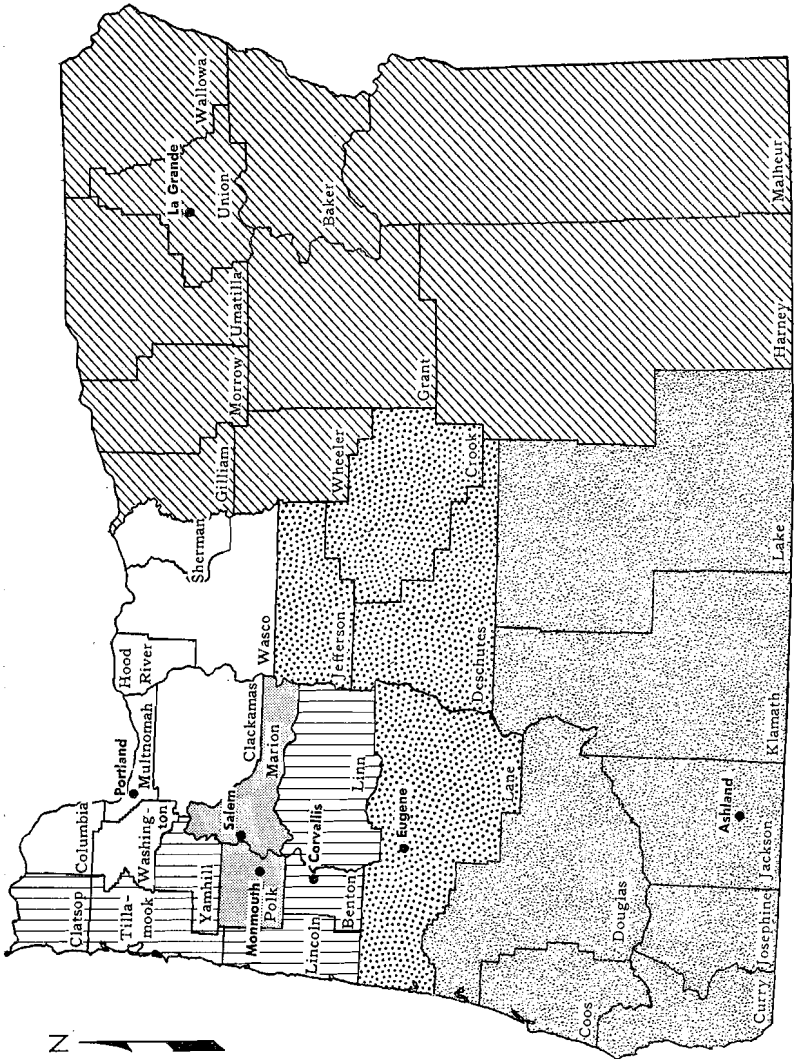
Portland State College offers major work in general studies, liberal arts, and selected professional fields as well as certain preprofessional programs.

At the University of Oregon and Oregon State University, major curricula, both liberal and professional, are grouped on either campus in accordance with the distinctive functions of the respective institutions in the unified state system of higher education.

Oregon Technical Institute offers technology curricula leading to associate degrees in technical and semi-professional areas.

An interinstitutional booklet, *Your Education*, which outlines the curricula of the several institutions and contains other information, is available. For a copy, write to Division of Information, Board of Higher Education, P.O. Box 5175, Eugene, Oregon.

Continuation Centers Map



Continuation Centers

Academic Calendar 1963-64

September 1963

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

October 1963

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November 1963

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December 1963

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Fall Term 1963-64

Classes begin.....week of September 30
 Thanksgiving Holiday
 November 28-December 1
 Term ends.....December 21

Winter Term 1963-64

Classes begin.....week of January 6
 Term ends.....March 21

Spring Term 1963-64

Classes begin.....week of March 30
 Memorial Day Holiday.....May 30
 Term ends.....June 13

Summer Term 1964

Classes begin.....week of June 22
 Independence Day Holiday.....July 4
 Summer term ends.....August 14

Fall Term 1964-65

Classes begin.....week of September 28
 Thanksgiving Holiday
 November 26-29
 Term ends.....December 19

March 1964

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State System regulations governing such matters as late fee, last day to register or add a course, and last day to drop a course without responsibility for grade, are shown in the official class schedules published prior to each term.

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General Information

The Division of Continuing Education was established July 1, 1963 by the Oregon State Board of Higher Education, replacing the General Extension Division which had its beginning when the Oregon State System of Higher Education was formed in 1932. The division is the educational agency of the State System of Higher Education responsible for extending the resources of the state's public colleges and universities to the adults of Oregon who are not regularly enrolled in a college or university. The division identifies public problems and interprets public needs to the state colleges and universities; focuses higher education skills and resources upon them; and translates university and college insights into educational programs throughout Oregon.

The division initiates, coordinates and guides extension programs: (1) offerings for credit, such as regular courses, correspondence study, workshops, institutes and telecourses; (2) services of a non-credit nature, such as audio-visual activities and facilities, cultural activities; (3) continuing education opportunities for adults through non-credit courses, institute-conference programs, radio, television films and other media of communication and information.

Facilities

Resources of the State System of Higher Education are made available to the people of Oregon through Continuation centers of the division. Centers are located on campuses throughout the state to serve broad geographical areas. (See map, page 6). Thousands of credit courses and hundreds of special non-credit programs are offered each year through the centers to adults of Oregon.

Instructional facilities of the division include the Oregon educational television network, Channels 7 and 10, with stations in Corvallis and Portland and studios in Eugene, Corvallis, Salem and Portland. The facilities also include KOAC radio in Corvallis and KOAP-FM in Portland and other audio-visual facilities in Corvallis.

The Portland continuation center building houses a human relations laboratory and a counseling center for adults. The laboratory is a facility designed to accommodate special programs of educational, business and civic organizations. The counseling center was established in 1958 with the objective of offering training opportunities in techniques and methods of training counselors and of providing counseling services to students who enroll in programs of the Division of Continuing Education.

Credit Offerings

Credit offerings administered by the centers are drawn from the curricula of the colleges and universities in the State System of Higher Education. Credit earned from courses administered by the division may be acceptable toward a degree program if it meets the requirements of the degree program. (The division does not confer degrees.) Students who plan to apply such credit toward a degree program are strongly advised to get advance approval from the institution offering the degree.

Academic standards for the credit courses offered through the division are the sole responsibility of the colleges and universities from whose curricula the courses are drawn.

Support

The State law creating the Board of Higher Education specified that this body was to "control the use, distribution, and disbursement of all funds, appropriations and taxes, now or hereafter in possession, levied and collected, received or appropriated for the use, benefit, support and maintenance of institutions of higher education." By virtue of this act, and beginning July 1, 1931, the board has administered all funds for State-supported higher educational activities on the basis of a unified budget.

Funds for the support of higher education in Oregon are derived primarily from the following sources: State appropriations for the operations of the institutions; specified sums from the national government assigned for definite purposes by Congressional acts; income from student tuition and fees; and other sources such as gifts, grants, sales, service charges and so forth.

The Board of Higher Education has specified that the Division of Continuing Education is to organize and conduct all the departments with a view to reducing the requirements from board funds to the minimum consistent with reasonable service to the people of the state.

Undergraduate Work

The Continuation centers do not confer degrees. Course work taken through Continuation centers may be acceptable toward a degree program at a four-year institution. Students wishing credit earned at centers to apply toward a degree should inform themselves of the degree program requirements of the institution from which they expect to receive the degree. Information concerning admission, advanced standing, credit transfer, residence and graduate requirements should be obtained from the registrar of the degree-granting institution, whether within the Oregon State System of Higher Education or elsewhere.

Graduate Work

Continuation centers administer many graduate-level courses of the colleges and universities in the Oregon State System of Higher Education. To meet the demand for graduate work in the Portland area a complete offering of courses needed to meet master's degree requirements in certain areas is regularly administered by the Portland Continuation center for colleges and universities in the State System. Graduate students who wish to apply their credits toward advanced degrees at one of the institutions within the State System of Higher Education must make application for admission to the graduate school selected and take the qualifying examination at the earliest opportunity. State colleges and universities in Oregon require that all work for the master's degree, including work for which credit is transferred, thesis, and final examination, be completed within a period of seven years. Detailed information on graduate programs is available in the catalogs of the various colleges and universities.

Graduate Programs in Portland

Master of Education: Degree may be taken either at University of Oregon or at Oregon State University.

Master of Science in Education: Offered at Oregon College of Education at Monmouth, Eastern Oregon College at La Grande, or Southern Oregon College at Ashland.

Master of Arts in General Studies: Offered through Oregon State University.

Master of Arts (Departmental), Master of Science, Master of Science in General Studies.

Master of Business Administration: Programs leading to the Master of Business Administration at the University of Oregon.

Master of Science in Health, Physical Education and Recreation: Offered by University of Oregon.

Master of Education in Library Science: A sequential program leading to Master of Education at University of Oregon is offered.

Master of Science in Engineering: A graduate program leading to a Master of Science degree in engineering from Oregon State University.

Master of Engineering: This degree was approved by the graduate council exclusively for those engaged in authorized off-campus instruction made available through the Division; offered by Oregon State University.

Master of Bio Engineering: This degree program is offered under authorization of off-campus instruction administered by Portland center in cooperation with the Oregon Regional Primate Research center and Oregon State University.

Libraries

Students enrolled in the evening programs may use the library facilities of the various campuses in the State System of Higher Education, although there may be limitations on the check-out of materials. Library facilities of the State institutions of higher education in Oregon are coordinated through a director of libraries. The director is also librarian of Oregon State University at Corvallis, where central offices of the library system are located.

The collections at the several institutions are developed to meet special needs on each campus; but the book stock of the libraries, as property of the State, circulates freely to permit the fullest use of all books. A combined author list of all books and periodicals in the State System is maintained in the central office in Corvallis to facilitate a better distribution of the book stock and to eliminate unnecessary duplication of materials.

Library regulations at each of the institutions of higher education are listed in the regular catalogs of those institutions.

Fees

Fees of students enrolled in Continuation center classes are established by the State Board of Higher Education. In the fee schedule printed below regular fees are those paid by all students under the usual conditions of undergraduate or graduate study; regular fees are payable in full at the time of registration. Special fees are paid under the special conditions indicated. The Board of Higher Education reserves the right to make changes in the fee schedule without notice.

Payment of the stipulated fees entitles all students registered for academic credit to use of laboratory and course equipment and materials used in connection with courses for which the student is registered.

The regular fees for undergraduate students for a term are as follows:

Undergraduates, graduates, and auditors per credit hour.....	\$ 14.00
Minimum charge for one or two credit hours.....	\$ 28.00
Charge for students enrolled for eight credit hours or more, including television courses.....	\$110.00

Late fee (including auditors).....	\$3.00-\$1.00
Change or program fee, per course added or dropped (assessed on each and every change of official registration).....	\$ 1.00

Fee Refunds

Students who withdraw from courses and who have complied with the regulations governing withdrawals are entitled to certain refunds of fees paid, depending on the time of withdrawal. The refund schedule has been established by the State Board of Higher Education and is published for each term in the schedule of courses.

Course Numbering System

Throughout the State System of Higher Education, courses follow this basic numbering system:

- 1- 49. Noncredit courses or credit courses of a terminal or semiprofessional nature not applicable toward degree requirements.
- 50- 99. Credit courses applicable toward degree requirements but of a basic preparatory, subfreshman level, such as the first year of a foreign language or fundamental mathematics courses.
- 100-299. Courses on the lower division level.
- 300-499. Courses on the upper division level.
400-499, with designation (G) or (g). Upper division courses which may be taken for graduate credit. Courses which may be taken for graduate major credit are designated (G); courses which may be taken for graduate minor credit only are designated (g).
- 500-599. Graduate courses. Seniors of superior scholastic achievement may be admitted on approval of instructor and department head concerned.

Reserved Numbers

- 100-110, 200-210. Survey or foundation courses, including "group courses," at the freshman and sophomore levels.
- 400-410, 500-510. Certain of the numbers in these blocks have been assigned as repeating numbers to specify courses which may be taken for more than one term under the same number, credit being granted according to the amount of work done.

Grading System

Grades. The grading system consists of four passing grades, *A, B, C, D*, and others listed below. *A*, denotes exceptional work accomplished; *B*, superior; *C*, average; *D*, inferior. The grading system is consistent throughout the State System.

Points. Grade points are computed on the basis of 4 points for each term hour of *A* grade, 3 points for each term hour of *B*, 2 points for each term hour of *C*, 1 point for each term hour of *D*, and 0 points for each term hour of *F*. Marks of *I* and *W* are disregarded in the computation of points. The grade-point average (GPA) is the quotient of total points divided by total term hours in which *A, B, C, D*, and *F* are received.

Veterans' Aid

Veterans of the Korean conflict may receive Federal educational aid under the provisions of Public Law 550 or 894. Application should be made through a local office of the Veterans Administration. Veterans who are residents of Oregon may receive state educational aid, on application to the Educational Officer, Department of Veterans Affairs, Salem, Oregon.

Description of Courses

The following is a list of the courses that are scheduled to be offered in various Oregon communities during the 1963-64 academic year. Letters in parentheses following each course title indicate the institution from whose curricula the course is taken. Credit earned in the courses may be acceptable at any state college or university in Oregon if it meets the requirements of the degree program of the institution from which the student is seeking the degree.

Because of the changing needs of communities and problems of advance staffing, new courses may be added after publication of this catalog and certain courses listed may be canceled. Consult the course schedule, issued about one month prior to the start of each term, for a complete listing of courses to be offered in each community for that term. Requests for course schedules should be sent to: Information Services, Continuation Centers, 1633 S.W. Park Avenue, Portland 1, Oregon.

A schedule of courses, listed by community and term to be offered, is listed elsewhere in this catalog.

Anthropology

Anth 101, 102, 103. **General Anthropology.** 3 hours each. (PSC)

Anth 101: Principles and types of evidence for evolution; fossil primates and men; processes of race formation and disappearance; contemporary races. *Anth 102:* archeology and the evolution of cultures; the beginnings of sedentary civilized societies engaged in food production. *Anth 103:* the organization of cultures, languages, and societies.

Anth 207, 208, 209. **Introduction to Cultural Anthropology.** 3 hours each. (PSC) (UO)

The meaning of culture; its significance for human beings; its diverse forms and degrees of elaboration among different groups of men; its processes of growth and expansion.

Anth 307, 308, 309. **Peoples and Cultures of the World.** 3 hours each. (PSC)

Origin, description, and analysis of cultures and societies around the world according to a classification by culture areas. *Anth 307:* Eastern and Southern Asia, Oceania, Australia. *Anth 308:* Southwestern Asia, Africa. *Anth 309:* The Americas, Europe. Prerequisite: upper division standing.

Anth 414. **Race and Culture.** (G) 2 hours. (UO)

Racial classifications and comparisons; the biological base of culture; attitudes toward race in human relations. Prerequisite: 9 hours in anthropology or consent of instructor.

Anth 417, 418, 419. **The American Indian.** (G) 3 hours each. (UO)

Indian life in Central, South, and North America before white contact; contemporary Indian life where groups still survive. Prerequisite: Anth 314, 315, 316 or consent of instructor.

Anth 450. **Cultural Dynamics.** (G) 3 hours. (UO)

Evaluation of approaches to the problem of cultural changes; analysis of invention and intergroup cultural borrowing; agents and conditions promoting change; mechanics of cultural growth; application of techniques for inducing change. Prerequisites: 9 hours in anthropology or consent of instructor.

Anth 526. **Linguistics.** (G) (first term) 3 hours. (UO)

The relation of language to culture; nature and forms of languages; influence of linguistic patterns on thought; sounds of language-phonetics and pho-

nemics; linguistic structures, morpho-phonemics and morphology; semantics; techniques of linguistic recording and analysis; field work. Prerequisite: senior standing; Anth 207, 208, 209 or two years of a foreign language; consent of instructor.

Art

A 117. Introduction to Ceramics. 3 hours. (OCE)

Introduction to ceramic techniques and materials; hand building, surface decoration and glazing. Students assist in stacking and firing the kiln.

A 127. Art Appreciation. 3 hours. (SOC)

Designed to develop insight into the actual work of art and breadth in the understanding of diverse works of art. Introduction to the principal visual arts as related to daily living to include some experience with materials.

A 216. Lettering. 2 hours. (OCE)

Studio classes in lettering, progressing from the edged pen to brush practice, and an introduction to Italic Handwriting. Historical and contemporary means to visual communications are studied as related to preparation of teaching materials.

A 217. Lettering. 2 hours. (OCE)

A continuation of A 216 leading to greater ability in personal calligraphy, preparation of charts and posters. Prerequisite: A 216.

A 219. Ceramics. 2 hours. (OCE)

Continued study of ceramic materials, mold making, casting, use of the potters wheel, decorating, packing and firing kiln.

A 318. Painting. 2 hours. (EOC)

Instruction in use of oil, water color, pen, and other media. Still life and outdoors.

A 319. Clay Modeling. 2 hours. (OCE)

Modeling abstract and animal forms, glazing and firing—suitable for age levels from elementary grades through high school.

A 321. Drawing. 3 hours. (OCE)

Basic information on elements of design, and representation as they are related to the needs of the student. Creative work is stressed, the student receiving actual experience in different media in studio situations.

A 321. Design. 2 hours. (SOC)

A continuation of the lower division course, A 220, 221. Emphasis upon the effective use of the elements and fundamentals of organizing two- and three-dimensional space.

A 322. Design. 3 hours. (EOC)

The elements of design, and representation as they are related to the needs of the student. Creative work is stressed, the student receiving actual experience in different media. Suitable for public school art programs. Prerequisite: A 321.

A 322. Design. 3 hours. (OCE)

Extension of the principles of design, structural and decorative; application through various media; foundation material for design in school work. Prerequisite: A 321.

A 323. Art Education (Elementary). 3 hours. (OCE)

Evaluation of the various approaches to the creative art experiences made possible in the flexible course of study. Lectures, reading and discussions deal with recent trends of art expression in elementary and junior high school (applicable as Education on elementary degree requirements and certification.) Prerequisites: A 321, 322.

A 331. Sculpture. 2 hours. (OCE)

AA 434. Visual Techniques. (g) 3 hours. (OCE)

A production and design class in teacher preparation of classroom instructional items in visual and three-dimensional materials. Diagrams, charts, models and teaching displays and devices will be developed. Instruction in school display and publicity techniques will be given. Consent of instructor required.

Architecture and Allied Arts

AA 0223. Elements of Interior Design. noncredit. (UO)

This course, which is oriented to the layman, will serve as an introduction to the scope, aim, and techniques of interior design, intended to give a comprehensive understanding of the professional field. Lectures with the aid of visual material will present background to design theory and current design concepts which illustrate the design work of interior architecture. Emphasis will be placed on development of an appreciation of the quality and character of materials and furnishings used in interior designed spaces.

AA 22. Fashion Drawing. (noncredit) 2 hours. (DCE)

Practice with the tools and techniques of fashion art. Drawing from fashion models. Study of requirements for professional fashion illustration.

AA 32, 33, 34. Introduction to Art Photography. (noncredit) 2 hours each. (DCE)

An exploration of photographic materials and their expressive use. The method will be the "Zone System" of planned photography moving toward a basic understanding of the concept of "camera work" through the subject and the print. Students are required to use their own darkrooms and photographic equipment. Students should have a serious interest in the camera as a creative tool and some experience in processing film and in printing.

AA 42, 43, 44. Introduction to Art. (noncredit) 2 hours each. (DCE)

Omnibus experience in using various art media. AA 42: Drawing, figure drawing and design; AA 43: composition, life drawing, and ceramics; AA 44: paintings and sculpture.

AA 178. House Planning and Architectural Drawing. 3 hours. (OSU)

Appreciation and criticism of domestic architecture. Small-house planning and graphic communication with reference to the needs of students in agriculture, business and technology, education, engineering, forestry, and home economics.

AA 195, 196, 197. Basic Design. 3 hours each. (PSC)

A three-term introductory sequence; a series of studio participation exercises involving the basic principles of design.

AA 201, 202, 203. Survey of Visual Arts. 3 hours each. (PSC) (UO)

Cultivation of understanding and intelligent enjoyment of the visual arts through a study of historical and contemporary works; consideration of motives, media, and forms.

AA 211, 212. Graphics II. 3 hours each. (PSC)

Continuation of AA 111, 112, with emphasis on the precise study of systems of drawing. Orthographic projections, descriptive geometry. Integration of the media and methods of controlling delineation and other expression of architectural subjects. 6 hours required for majors in architecture.

AA 211, 212, 213. Graphics. 2 hours each. (UO)

Intensive study of systems of drawing. Orthographic projection, descriptive geometry. Integration of the media and methods controlling delineation and other expressions of architectural subjects. 6 hours required for majors in architecture.

AA 217. Lettering. 1 hour each. (PSC)

Lettering, including a study of historic styles and of more recent adaptations of "built up" letter forms in contemporary use. Display Design students should

take AA 217 before or concurrently with AA 296. Maximum credit: 3 term hours.

AA 223. Elements of Interior Design. 2 hours. (PSC)

A studio course. Introduction to scope, aim, and technique of interior design intended to give understanding of professional field. Open to nonmajor students with consent of instructor.

AA 250, 251. Recreational Use of Art Crafts. 3 hours each. (OSU)

Projects in various craft mediums with particular attention to age levels, hobby interests, cost of equipment and materials. Required for recreation majors and minors and camp education minors; suggested for physical education, elementary education, and education majors.

AA 255. Ceramics. 2 or 3 hours each. (PSC)

Introduction to ceramic techniques and materials. Throwing, moulding, and hand building. Surface decoration of two- and three-dimensional surfaces. Students participate in stacking, firing, and drawing the kilns. Open to nonmajors. Maximum credit: 12 term hours.

AA 257. Jewelry and Metalsmithing. 2 hours. (UO)

Introduction to the handworking of nonferrous metals—copper, brass, bronze, silver, gold; practical information about making jewelry and metal objects—soldering, stone setting, centrifuge casting, forging, raising.

AA 289. Landscape Design. 2 hours. (UO)

Study of the background and principles of landscape design; lectures, field trips, design of small properties. Open to nonmajors.

AA 290. Painting. 2 or 3 hours. (OSU)

Oil and mixed painting techniques; creative expression; special interests in painting. Twelve hours required of students who expect to major in drawing and painting at the University of Oregon.

AA 290. Painting. 2 or 3 hours each. (PSC)

Instruction in the use of oil color, water color, and other media. Registration permitted any term, but it is desirable that the work be started in the fall. Maximum credit: 9 term hours.

AA 290. Painting. 2 hours. (UO)

Instruction in the use of oil color, water color, and other media.

AA 291. Drawing. 2 hours. (OSU)

Primary means of art expression and communication; principles of composition and techniques of fine draftsmanship; specialized classes in fashion illustrating, sketching, and figure sketching. Three terms required of students who expect to major in the School of Architecture and Allied Arts at the University of Oregon.

AA 291. Drawing. 2 or 3 hours each. (PSC)

Training in observation and selection of significant elements. Registration permitted any term, but it is desirable that the work be started in the fall. Maximum credit: 9 term hours.

AA 293. Sculpture. 2 hours. (OSU)

Creative clay and plaster modeling and stone and wood carving; technical methods developed in conjunction with expressive design.

AA 293. Elementary Sculpture. 2 hours. (UO)

Introduction to materials. Elementary consideration of form; technical and compositional exercises in clay, plaster, wood and stone.

AA 295. Basic Design. 2 hours each. (OSU)

Individual projects leading to creative mastery of basic design in major visual arts and understanding of design factors involved in professional art. Three terms required of students who expect to major in art in the School of Architecture and Allied Arts at the University of Oregon. The work is correlated with that of AA 201, 202, 203.

- AA 295. **Basic Design.** 2 hours. (UO)
Studio participation exercises involving the basic principles of design ; a three-term introductory sequence. Open to nonmajors.
- AA 296. **Advertising Design.** 3 hours each. (OSU)
Practical design experience in commercial art lettering, layouts, packaging, and display advertising. Offered for pharmacy, agriculture, business and technology students.
- AA 299. **Graphic Design.** 2 hours each. (PSC)
Practical design experience in the fundamentals of applied commercial art, lettering, layout, packaging, and display advertising. Experimental thinking and original ideas are encouraged in the development of problems. Lettering AA 217 should be taken before or concurrently with AA 296. Maximum credit : 9 term hours.
- AA 311, 312, 313. **Art in the Elementary Schools.** 3 hours each. (OSU)
Studio projects, discussions, and observations to give practical approach to arts and crafts instruction at preschool and elementary school levels.
- AA 311, 312, 313. **Art in the Elementary Schools.** 3 hours each. (PSC)
Art activities for the elementary classroom teacher. Basic tools and materials. Planning the art program to meet the needs of the child. Art in the school curriculum. Art experiences in relation to child growth and development. Lectures and laboratory work. Prerequisite for AA 313 are AA 311 and 312.
- AA 363, 364, 365. **Introduction to the History of Art.** 3 hours each. (PSC)
An historical survey of the visual arts. Selected works of painting, sculpture, architecture and other arts are studied in relation to the culture producing them.
- AA 407. **Seminar.** Hours to be arranged. (PSC)
- AA 429. **Art Problems in Elementary Schools.** (g) 3 hours. (OSU)
Critical examination of research and literature in early childhood art education. Laboratory work and research coordinated with observation of children working with art materials. Investigation of problems related to classroom procedure. Prerequisite: AA 313 or consent of instructor.

Portland Art Museum

- AA 217. **Lettering.** 1 hour. (PSC)
Lettering, including a study of historic styles and of more recent adaptations of "built up" letter forms in contemporary use. Display Design students should take AA 217 before or concurrently with AA 296. Maximum credit : 3 term hours.
- AA 255. **Ceramics.** 1 hour. (PSC)
Introduction to ceramic techniques and materials. Throwing, moulding, and hand building. Surface decoration of two- and three-dimensional surfaces. Students participate in stacking, firing, and drawing the kilns. Open to nonmajors. Maximum credit : 12 term hours.
- AA 195. **Basic Design.** (first term) 3 hours. (PSC)
A three-term introductory sequence ; a series of studio participation exercises involving the basic principles of design.
- AA 290. **Painting.** 1 hour. (PSC)
Instruction in the use of oil color, water color, and other media. Registration permitted any term, but it is desirable that the work be started in the fall. Maximum credit : 12 term hours.
- AA 291. **Drawing.** 1 hour. (PSC)
Training in observation and selection of significant elements. Registration permitted any term, but it is desirable that the work be started in the fall. Maximum credit : 9 term hours.

AA 293. Elementary Sculpture. 1 hour. (PSC)

Introduction to materials. A thorough study of the elements of sculpturing. Technical and sculptural exercises in three dimensions. Maximum credit: 12 term hours.

AA 296. Graphic Design. 1 hour. (PSC)

Practical design experience in the fundamentals of applied commercial art, lettering, layout, packaging, and display advertising. Experimental thinking and original ideas are encouraged in the development of problems. Lettering AA 217 should be taken before or concurrently with AA 296. Maximum credit: 9 term hours.

Art Education

ArE 311, 312, 313. Art in the Elementary School. 3 hours each. (UO)

First term: design; exploration of materials appropriate for primary and intermediate grade children. *Second term:* two- and three-dimensional art and craft activities consistent with growth stages; literature in the field. *Third term:* methods for the intelligent use of art materials for the elementary-school-age child; the work of this term satisfies the Oregon State Department of Education methods-course requirement. The three terms must be taken in sequence.

Business Administration

Accounting

Ac 211, 212, 213. Fundamentals of Accounting. 3 hours each. (UO)

Study of the function of accounting as a tool for the planning and administration of business enterprise. Primary emphasis on analysis and interpretation of financial data, rather than on collection and presentation; position and income statements, conceptual bases for collecting and presenting data, flows of cost, the accounting cycle, depreciation, formation of working capital.

Ac 311. Income Taxation and Business Policy. 3 hours. (UO)

Designed for students not specializing in accounting. Emphasis on the impact of Federal income and estate taxes on decisions of business management, such as decisions to invest, to merge, to distribute earnings, to establish retirement programs. Students not admitted to both Ac 311 and Ac 411, 412. Prerequisite: Ac 213.

Ac 313. Managerial Accounting. 3 hours. (UO)

Designed for students not specializing in accounting. Emphasis on the use of accounting data by management; preparation, analysis, and interpretation of financial statements, including fund statements, internal accounting reports, budgets, and special cost studies. Credit not granted for both Ac 313 and Ac 350, 351, 352. Prerequisite: Ac 213.

Ac 411-412a, 412b-413. Income-Tax Procedures. (G) 3 hours each. (UO)

Professional study and analysis of the Federal and Oregon income-tax structure, and of the problems involved in determining income-tax liabilities; determination of taxable income and computation of taxes for individuals, partnerships, corporations, estates, and trust; introduction to tax research. Prerequisite: Ac 213.

Ac 440, 441. Accounting Verification. (G) 3 hours each. (UO)

Auditing standards and procedures observed by certified public accountants in the examination of the financial statements of business and other organizations; audit standards and objectives, collection of evidence, evaluation of internal control, problems of verification and application of procedures, preparation of programs, work papers, and reports. Prerequisite: Ac 352, Ac 361.

Ac 503. Thesis. Hours to be arranged. (UO)**Ac 507. Seminar.** Hours to be arranged. (UO)

Ac 540. Administrative Controls. 3 hours. (UO)

Nature of control in human organization; place of control in total management; conventional and developing techniques of control; basic statistical methods for control; the role of the computer in control systems.

Ac 542. Auditing Concepts. 3 hours. (UO)

Analysis of the problems encountered in examining and reporting on the financial statements of a business enterprise, verification standards, theory and application of sampling techniques, problems posed by data-processing machine systems, innovations in auditing concepts; selection, scope, and application of auditing procedures in the continued examination approach. Prerequisite: Ac 440, 441.

Business Administration**BA 111. Introduction to Business and Industry.** 3 hours. (PSC)

Survey of business organization, operation, and management intended to orient the student in business and industry.

BA 122. Principles of Management. 3 hours. (PSC)

A survey approach to the broad fundamental principles of management as a basic framework for managerial thinking and operating.

BA 211, 212, 213. Fundamentals of Accounting. 3 hours each. (OCE)

Study of the function of accounting as a tool for the planning and administration of business enterprise. Primary emphasis on analysis and interpretation of financial data, rather than on collection and presentation.

BA 211: Position and income statements, conceptual bases for collecting and presenting data, flows of cost, the accounting cycle, depreciation, formation of working capital. *BA 212:* Inventory and its control, risk-equity relationships, interest and annuities, analysis of position and income statements, fund statements, manufacturing costs, organization for and administration of cost and budgetary control. *BA 213:* Application of cost concepts to decision making, taxation, and its effect on planning, break-even analysis, internal control, capital budgeting, information theory applied to accounting reports, the impact of price-level changes on accounting data. Prerequisite: Sophomore standing or consent of instructor.

BA 211, 212, 213. Principles of Accounting. 3 hours each. (OSU)

BA 211: Introduction to terminology, content, and form of financial statements for single proprietorships, partnerships, and corporations; recording of data for use in preparing profit and loss statements and balance sheets.

BA 212: Detailed record-keeping procedures; internal control methods to protect cash resources; introduction to analysis and interpretation of financial statements. *BA 213:* Methods of recording and reporting incomes and expenses; introduction to functions and procedures of cost accounting for managerial use in controlling business operations; introduction to financial control through use of budgets.

BA 211, 212, 213. Principles of Accounting. 3 hours each. (PSC)

Technique of account construction; preparation of financial statements. Application of accounting principles to practical business problems. Required of majors, prerequisite to advanced work in business.

BA 221. Elements of Production. 3 hours. (PSC)

Principles of management as applied to commercial and industrial concerns.

BA 222. Elements of Finance. 3 hours. (PSC)

The financial problems of corporations. Organization of corporations; how they obtain long-term funds; management of working capital; distribution of securities. Prerequisite: BA 211, 212, 213.

BA 223. Elements of Marketing. 3 hours. (PSC)

Methods, policies, and problems. Private and cooperative channels, auctions, exchanges, middlemen; demand creation, assembly, standardization, packaging, financing, risk taking, distribution.

BA 238. Salesmanship. 3 hours. (PSC)

Salesmanship as a factor in distribution and service; analysis of the customer and his wants; methods of obtaining and holding customers; wholesale and retail sales processes, services, and principles of selling.

BA 314. Principles of Cost Accounting. 3 hours. (PSC)

Basic principles of cost measurements and reporting for management planning, policy, and control purposes. Methods of data, accumulation and control of materials, labor, and indirect costs. Job and process cost systems. Overhead budgeting; departmentalization; fixed and variable cost concepts. Prerequisite: BA 213.

BA 315. Analysis of Financial Statements. 3 hours. (PSC)

Analysis and interpretation of financial reports for management purposes. Comparisons; ratios; trends; other financial relationships; evaluations of financial position and operating results. Corrective measures for management policy and executive action.

BA 316. Managerial Use of Accounting Data. 3 hours. (PSC)

A study of accounting from the viewpoint of the use of accounting data for the decisional process. The study of relevant costs; whether to use marginal or direct cost theories, opportunity costs, etc. The relationship of economic theory to managerial decisions from accounting data. Recommended for both the professional accounting oriented student as well as the management oriented student. Emphasis upon significance and use of accounting and statistical data to determine cause and effect relationships. Prerequisite: BA 213.

BA 329. Production Management. 3 hours. (PSC)

Problems, readings, and discussion of factory organization, production methods, operational controls, utilization of facilities, supervision, and factory management. Prerequisite: BA 221.

BA 339. Advertising. 3 hours. (PSC)

Advertising as a factor in the distribution process; advertising agencies; evaluation and selection of advertising media for various types of business establishments; preparation of copy. Prerequisite: BA 223.

BA 359. Finance Management. 3 hours. (PSC)

Problems and case studies in management determinations respecting permanent capital, working capital, retention of earnings, bank loans, commercial credit, and administrative policies. Prerequisite: BA 222.

BA 366. Marketing Management. 3 hours. (PSC)

Functions of management in the marketing process; promotion; planning, coordination of production and sales; customer relations; selection, training, and supervision of salesmen; administrative policies. Prerequisite: BA 223.

BA 383, 384, 385. Accounting Theory. 3 hours each. (PSC)

Comprehensive study of generally accepted principles of accounting and of conventional procedures for the measurement and presentation of financial data. Problems of theory applicable to income pricing, and to the more difficult but significant business transactions and inter-organizational relationships. Prerequisite: 213.

BA 407. Seminar: Oregon Condemnation Appraising. 3 hours. (PSC)

Eminent domain and just compensation; measures of value; severance and consequential damages; emphasis on condemnation appraising, with special reference to Oregon Law.

BA 411. Business Law. 3 hours. (OSU)

Basic rules of law for conduct of business generally. Creates an awareness of proper legal practices, including the desirability of professional supervision. Primary emphasis on requirements of formation, performance, and methods of discharge of contracts. Related treatment of quasi-contracts and torts.

- BA 412. **Business Law.** 3 hours. (OSU)
Nature of personal property including sales, bailments, chattel mortgages, and conditional sales; law of negotiable instruments including promissory notes, bills of exchange, and checks. Prerequisite: BA 411.
- BA 413. **Business Law.** 3 hours. (OSU)
Law of business ownership and organization including individual proprietorship, agency, partnership, corporations, cooperative associations, and business trusts. Prerequisite: BA 411.
- BA 414. **Real Estate Law.** 3 hours. (OSU)
Primary features of legal ownership of land including creation and rights of ownership under various estates, title protection, deeds, wills, and inheritance; property transactions related thereto, including contracts, mortgages, leases, and brokerage. Prerequisite: junior standing.
- BA 415. **Marketing Research.** 3 hours. (PSC)
Research methods in obtaining data for marketing managerial decisions; impact of research in today's marketing structure, proper use of research. Research design; problem of formulation; exploratory research, methodology involved in practical application to a given problem; data summary and interpretation; report writing. Prerequisites: BA 223, BA 366.
- BA 416. **Real Estate Principles.** 3 hours. (PSC)
Study of property interests and titles, deeds, mortgages, leases. Real estate brokerage and real estate finance. Valuation of property. Prerequisite: BA 411.
- BA 417. **Real Estate Practice.** 3 hours. (PSC)
Organization and conduct of the real estate business; legal and ethical responsibilities of the broker; listing, advertising and sales methods. Prerequisite: BA 416.
- BA 418. **Real Estate Appraisal.** 3 hours. (PSC)
Fundamentals of appraising real estate. Land utilization. Analysis of real estate values by approaches followed by governmental and private appraisers.
- BA 424. **Analysis of Financial Statements.** (g) 3 hours. (OSU)
The preparation, analysis, and interpretation of balance sheets and operating reports for effective management and control of industrial and trading concerns. Prerequisite: BA 211, 212, 213 or BA 214, 215.
- BA 429. **Case Problems in Controllorship.** (g) 3 hours. (OSU)
Functions of the controller and his organization; techniques employed in the coordination and control of accounting, budgeting, and planning; controller's contribution to management and responsibilities of office organization and procedures. Prerequisite: BA 321, 322, 323.
- BA 430. **Fund Accounting.** 3 hours. (PSC)
Special theory of accounting for governmental bodies and nonprofit organizations requiring accounting by "funds." Involves study of the relationships of the budgetary process to the control of expenditures with budget authorizations. Also, a study of the sources, classification, and availability of revenues for expenditures. Emphasis on relationships of accounting to public finance, law and economic behavior. Prerequisite: BA 213.
- BA 433. **Credits and Collections.** 3 hours. (PSC)
Management functions performed by a credit department; relation to other functions of the business enterprise; nature of consumer credit and mercantile credit, sources of credit information, evaluation of credit risks, and credit controls useful to business firms; credit policy determination.
- BA 434. **Income Tax Procedure.** 3 hours. (OSU)
Federal and State income tax regulations, and court decisions applicable to individuals, partnerships, and corporations; differences between managerial and tax accounting and between Federal and State tax requirements; computing taxable income and preparing official returns.

- BA 435. **General Insurance.** 3 hours. (PSC)
A study of the principles and practices of life, fire, casualty, marine and social insurance. Prerequisite: Ec 201, 202, 203, BA 222.
- BA 436. **Investments.** 3 hours. (PSC)
The principles of investment in stocks and bonds, analysis of securities from the qualitative and quantitative points of view. Security markets. Current regulatory practices. Prerequisites: BA 211, 212, 213, 222, 359.
- BA 453. **Business Policies.** 3 hours. (PSC)
The interdependence of the different departments of a business concern. Designed to provide an integrated view of business operations, and to coordinate the more specialized instruction in the field of business administration. Prerequisites: BA 221, 222, 223.
- BA 460. **Purchasing.** 3 hours. (PSC)
Significant managerial problems raised by purchase and control of materials, supplies, equipment, merchandise, and other procurement items for business or government organizations.
- BA 462. **Retail Management.** 3 hours. (PSC)
Principles of organizing and operating retail institutions; store locations, store layout, buying and selling, operating activities, personnel and control.
- BA 465. **Salesmanship.** 3 hours. (OSU)
Principles and practice of salesmanship; preapproach, gaining the interview, approach, demonstration, meeting objections, and the close; class work correlated with student's major interests in selling.
- BA 476. **International Business.** (g) 3 hours. (OSU)
Activities and procedures peculiar to exporting and importing; obtaining transportation services; packing requirements; custom requirements; financing methods; insurance.
- BA 487. **Advanced Cost Accounting.** 3 hours. (PSC)
A continuation of BA 314 relating to presentation and analysis of cost information necessary for valuation, managerial planning and control. A study of standard costs, concepts of capacity of production in relation to overhead cost rates, direct or marginal cost theory, cost-volume-profit relationships, distribution costing and joint by-product costing. Prerequisite: BA 314.
- BA 489, 490. **Advanced Topics in Accounting.** 3 hours each. (PSC)
Professional study of specialized problems relating to financial accounting; application of compound interest computations to problems of valuation, special problems in partnership accounting, accounting for firms in financial difficulties, consolidated financial statements, estate and trust accounts and reports. Prerequisites: BA 385, one year college mathematics.
- BA 491. **Advanced Accounting Theory.** 3 hours. (PSC)
Advanced topics in accounting and relationships and comparisons of accounting theory to economic theory; readiness in accounting literature and history; discussion of current problems with emphasis on the meaning and application of "generally accepted" accounting principles. Prerequisites: BA 489, 490.
- BA 497. **Human Relations in Business.** (g) 3 hours. (OSU)
Relationships among managerial, supervisory, and other workers; actual cases used to help develop attitudes, frames of reference, and approaches which will be useful in solving human relations problems in business. Prerequisite: senior standing.
- BA 499. **Business Policy.** (g) 3 hours. (OSU)
Advanced integrative course in analysis of top-management decisions, executive responsibilities, and company objectives. Policymaking is studied through business case histories, current business news, and field investigations of region. Prerequisite: senior standing.

Business Statistics**BS 432. Quantitative Analysis for Business Decisions.** (G) 3 hours. (UO)

Uses of subjective probability and modern utility theory in dealing with conditions of risk and uncertainty in business situations; elementary mathematical models of business behavior; applications to inventory and waiting-line problems. Prerequisite: one year of college mathematics; BS 232, 233, or equivalent.

BS 507. Seminar: Quantitative Analysis for Business Decisions. Hours to be arranged. (UO)**Finance and Business Economics****FBE 216. Business Law.** 5 hours. (UO)

The legal system and legal procedures; legal principles in the fields of contracts and agency; legal problems related to the organization and operations of business firms. Principles and problems illustrated by selected cases. Designed to provide a basic understanding of the law as it affects business.

FBE 320. Financial Institutions. 5 hours. (UO)

The functions and economic significance of the major financial institutions in the economy that make the savings of society available to consumers, businesses, and governments, including commercial banks, savings banks, savings and loan associations, credit unions, insurance companies, investments trusts, various governmental lending agencies, and international financial institutions. Analysis of each institution and the part it plays in providing the short, intermediate, and long-term credit needs of the users of funds. The commercial banking system in relation to its function of supplying the nation's money supply. The nature and functions of money and credit and the interrelationship of money, credit, and prices as they affect business decisions. Prerequisites: Ec 201, 202, 203.

FBE 322. Business Finance. 5 hours. (UO)

Problems of the financial management of a business unit. Financial analysis and planning, including capital budgeting, the acquisition of funds, and the management of funds. The financial manager in his role as a decision maker. How to determine the financial condition of the firm. Money and capital markets, trade credit, commercial bank loans, sources of intermediate-term funds, and long-term money in the form of bonds and stocks examined to discover their relative usefulness and applications. The internal day-to-day problems of maintaining an even flow and turn of assets to their best use. Prerequisite: FBE 320.

FBE 426. Real-Estate Practice. 3 hours. (UO)

Application of the principles of land and building management from the standpoint of the broker and owner-operator; real-estate practices and institutions. Prerequisite: FBE 425.

FBE 427. Real-Estate Appraising. 3 hours. (UO)

Specific factors affecting the value of land and buildings; the effect of city structure; zoning and city planning; demonstrations of various techniques in appraising; preparations of an appraisal report. Prerequisite: FBE 425.

FBE 430. Advanced Real Estate and Urban Land Use. (G) 3 hours. (UO)

Principles and practices of real-property valuation; factors affecting real-property values and incomes; relationship between land use and land values; the appraisal process; policies and problems of real-estate taxation; trends in real-property values and appraisal procedures.

FBE 503. Thesis. Hours to be arranged. (UO)**FBE 507. Seminar.** Hours to be arranged. (UO)**FBE 507. Seminar: Legal and Social Philosophy of Business.** Hours to be arranged. (UO)

FBE 507. **Seminar: Legal Environment of Business.** Hours to be arranged. (UO)

FBE 511. **Methods in Business Research.** 3 hours. (UO)

Research techniques in business; projects design, analysis of data, presentation of research findings.

FBE 512. **Problems in Business Forecasting.** 3 hours. (UO)

Establishment of business plans for expansion and development on the basis of economic and market data; planning fundamentals, forecasting procedures, interrelations of marketing, financial and personnel planning, organization of the planning and forecasting process; theories of business cycles and economic growth.

FBE 522. **Problems in Business Finance.** 3 hours. (UO)

Selected problems in the financing of business enterprise, including short-term financial arrangements. Credit management, short-term bank borrowing, the preparation and use of financial information, the uses and difficulties of forecasting money needs, the choice between debt and equity, the cost of capital, and other problems. Classroom discussion of cases.

FBE 530. **Managerial Economics.** 3 hours. (UO)

The varied forms in which economic concepts appear in the operation of individual business units; emphasis on the approach to problems of management decision making and forward planning through formulation of problems in a conceptually quantitative manner capable of numerical solution. Integration of economic principles with various areas of business administration; the role of uncertainty given particular attention.

FBE 565. **Security Analysis.** 3 hours. (UO)

Each student selects a specific industry for intensive study, prepares a comprehensive appraisal of its financial problems, and subjects typical companies within the industry to critical examination on a comparative basis.

Marketing and Industrial Management

MIM 321. **Organization and Interpersonal Relations.** 5 hours. (UO)

Principles of management applied to commercial and industrial concerns; business planning, policy formulation, establishment of procedures, operations; theory and design of organizational structure; impact of work-flow plans, leadership patterns, and control systems upon human behavior.

MIM 323. **Elements of Marketing.** 5 hours. (UO)

The marketing structure of business; analysis of the service functions of marketing—distribution, transportation, storage, grading, financing; problems of merchandising and internal control of the distributive function.

MIM 329. **Production Management.** 5 hours. (UO)

The planning, operations, and control of mass-production manufacturing; procurement, handling, and control of materials and control of quantity and quality. Ways of setting standards and improving methods; use of motion and time study; automation and automatic processing equipment. Supervision of operating employees and personnel relations as they affect production work. Emphasis on principles and relationships rather than specified techniques. Laboratory sessions (including field trips) illustrate selected methods, techniques, and management tools.

MIM 349a, 349b. **Domestic Transportation and Traffic Management.** 3 hours each. (UO)

Designed to acquaint the student with principles and practices of transportation which should be known to every businessman engaged in production or distribution. The physical transportation plant of the United States and its performance; carrier responsibilities, services, and cooperation; economic and legal bases of rates, the processes of freight classification and tariff preparation and interpretation, various kinds of rate structures, and relationships between transportation and the location of economic activity.

Organization, management, and services of industrial traffic departments.
Prerequisite: Ec 201, 202, 203 or consent of instructor.

MIM 354. Risk and Insurance. 3 hours. (UO)

Introduction to the basic principles of insurance from the viewpoint of the consumer; risk and risk bearing; ways of handling risk; insurance as a device to handle risk; principles of insurance buying, including carrier and agency selection; major types of private insurance—life, property, and liability—with emphasis on the underlying economic problems each type is designed to meet; the insurance contract and its legal basis, with emphasis on the elements common to all insurance contracts; economic and historical significance of insurance; insurance regulations.

MIM 407. Seminar: Business Research Methods Statistics. 3 hours. (UO)

Statistical methods and research procedures for Government officers.

MIM 412. Personnel Management. (g) 3 hours. (UO)

Personnel management in the modern business organization; personnel policies and practices conducive to good relations with employees; personnel problems of small organizations.

MIM 413. Wage and Salary Administration. (G) 3 hours. (UO)

Systematic administration of wages and salaries as a means of motivation and control in the business enterprise. Job analysis description, and specifications; job evaluation methods; community wage and salary surveys; establishing wage structures by job evaluation and wage levels by collective bargaining and other methods; principles and administration of wage incentive plans; evaluating the results of wage incentives; compensating clerical, supervisory, and management personnel. Prerequisite: MIM 412 or consent of the instructor.

MIM 414. Problems in Personnel Management. (g) 3 hours. (UO)

Major areas of personnel policy determination, with special emphasis on relations with organized employees at the enterprise level and within the enterprise. The impact of union practices on personnel policy and procedures in both unionized and nonunion enterprises. Prerequisite: MIM 412 or consent of the instructor.

MIM 436. Retailing Institutions in the Marketing System. 3 hours. (UO)

Composition of the retailing structure; institutional types currently operating in industrial societies; economic, social, and commercial role of retailing and its effectiveness in meeting society's changing needs.

MIM 442. Analysis of Consumer Behavior. 3 hours. (UO)

The consumer-firm relationship analyzed through the application of concepts drawn from contemporary behavioral science to concrete business cases and practices; role theory, theories of attitude, change, and principles of perception given primary emphasis; analysis directed to advertising, display, layout, packaging, design of retail establishments, interpersonal relations of consumer and seller, and business "image." Prerequisites: Psy 201, 202 or Soc 204, 205; Psy or Soc 334.

MIM 451. Transportation Regulatory Laws and Procedures. (G) 3 hours. (UO)

The historical background and present status of state and Federal transport regulation, with particular attention to the Interstate Commerce Act and other pertinent Federal and state statutes. The organization and procedure of transport regulatory agencies, and the rules of practice before such bodies. Prerequisite: MIM 349, Ec 462, or consent of instructor.

MIM 455. Property and Liability Insurance. (G) 3 hours. (UO)

The more important methods of reducing business and personal risks from physical and moral hazards; major contracts of insurance to identify for losses from such perils as fire, windstorm, explosion, transportation, legal liability, dishonesty, and insolvency of others; loss adjustment practices, underwriting problems, reinsurance, rate making, consequential losses.

- MIM 503. **Thesis.** Hours to be arranged. (UO)
- MIM 507. **Seminar: Administration of the Marketing Function.** Hours to be arranged. (UO)
- MIM 507. **Seminar.** Hours to be arranged. (UO)
- MIM 507. **Seminar: Personnel Administration.** Hours to be arranged. (UO)
- MIM 520. **Marketing Problems and Policies.** 3 hours. (UO)
 Cost controls in distribution, delineation of market areas for the firm and industry, trade-channel analysis, organization for distribution, market-share analysis, product development and innovation, interregional trends.
- MIM 530. **Production Programming.** 3 hours. (UO)
 Analysis of schematic and mathematical models in the allocation of productive resources in the manufacturing process; linear programming, statistical techniques, and other quantitative norms applied in production control, equipment replacement and analysis, economic lot size determination, and quality control.
- MIM 531. **Theory of Business Organization.** 3 hours. (UO)
 The role of theory in the social sciences; research and theory dealing with organizational structure, leadership, communication, evaluation, decision making, control; an attempt to integrate traditional and behavioral-science approaches to organization and organizational behavior.
- MIM 532. **Problems in Business Policies.** 3 hours. (UO)
 Business policy formulation considered as a derivative of corporate objectives and philosophy; emphasis on the effects of intra- and extra-organizational forces which require periodic policy modifications. Analysis of specific case illustrations on a company and an industry basis. Research into the conceptual and operational ramifications of a current problem.

Office Administration

- OA 539. **Current Trends in Basic Business Subjects.** 3 hours. (OSU)
- OA 541. **Current Practices in Typewriting.** 3 hours. (OSU)
 Principles underlying development of typing skills; motivation, supplementary materials, and special devices. Prerequisite: Ed 408. Students who have not had Ed 408 must have had teaching experience in typing.

Business Education and Secretarial Science

Business Education

- BEd 333. **Office Organization and Management.** 2 hours. (UO)
 The management and organization of the office, with special attention to the scientific approach to analysis and control; functional office layout and equipment; selection, training, and supervision of office personnel; place of automation in the office; planning, organizing, and controlling office services, such as correspondence, mailing activities, records management, communications, duplicating. Prerequisite: junior standing.
- BEd 540. **Administration and Supervision of Business Education.** 3 hours. (OSU)

Secretarial Science

- SS 11. **Beginning Typing.** (noncredit) (UO)
 Principles of touch typing; emphasis on development of speed and accuracy. 5 hours laboratory.
- SS 111, 112. **Briefhand.** 3 hours each. (PSC)
 Alphabetic (non-symbol) shorthand system for taking lecture notes and

limited professional use. Tripled writing speed in one term. SS 111 is prerequisite for SS 112.

SS 111. Briefhand. 3 hours. (UO)

A logical, practical, easy-to-learn system for abbreviating longhand, using only alphabet characters; personal-use value is great for all occupations; offers special advantages to students or persons in medicine, law, journalism, sales, etc. College students find it the answer to problem of taking rapid lecture notes; students may double or triple their longhand writing rate; emphasis on skill development.

SS 111, 112, 113. Stenography. 3 hours each. (PSC)

Theory of shorthand; practical applications in sentence dictation. SS 121, 122, 123 must be taken concurrently unless the student has had the equivalent. Students with one year of shorthand are not permitted to take course SS 111 for credit.

SS 121, 122, 123. Typing. 2 hours each. (PSC)

Theory and practice of touch typing; rhythmical drills, dictation exercises; writing paragraphs; punctuation and mechanical arrangements of business correspondence, legal forms, tabulating, manifolding, speed practice. Students with one year or more of typing are not permitted to take SS 121 for credit.

SS 122, 123. Advanced Typing. 2 hours each. (UO)

Typing of business letters, manuscripts, and various kinds of business forms; development of speed and accuracy in production. 5 hours laboratory.

SS 211, 212, 213. Applied Stenography. 3 hours each. (PSC)

Advanced principles and phrases; dictation and transcripts covering vocabularies of representative businesses; legal forms; newspapers and magazine articles. Prerequisite: SS 113, 123 or equivalent.

SS 215. Business Machines. 3 hours. (PSC)

Use and operation of various office equipment and machines.

SS 323. Business Machines. 2 hours. (UO)

Study of ten-key and full-key adding machines and the rotary calculator; development of operating skills; practical applications to business procedures. Open to nonmajors.

Clothing and Textiles

CT 331. Home Furnishing. 3 hours. (OSU)

Furnishing a small home from standpoint of comfort, beauty, convenience, and economy; influence of historic design. Prerequisite: CT 250; AA 160, 178 and or consent of instructor.

Dental Assisting

MA 152. Introduction to Dental Assisting. 4 hours. (OTI)

An orientation course including: history of dentistry, terminology, and overview of the dental assistant's duties, ethics, general duties in the dental office and patient routine, records, appointments, and dental supplies.

Economics

Ec 201, 202, 203. Principles of Economics. 3 hours each. (OSU)

The principles that underlie production, exchange, and distribution; practical problems such as monetary and banking reform, trade regulations, taxation, labor movements, unemployment, business cycles. A 3-term sequence.

Ec 201, 202, 203. Principles of Economics. 3 hours each. (SOC)

Social phenomena due to the wealth-getting wealth-using activities of man;

all other phases of man's life insofar as they affect his social activity in this respect; wealth; capital and income; driving forces of economic life; the industries of production; money; the interaction of supply and demand; the interpretation of the meaning of the law of supply and demand consumption.

Ec 201, 202, 203. **Principles of Economics.** 3 hours each. (UO) (PSC)

Principles that underlie production, exchange, distribution, etc. Prerequisite: sophomore standing.

Ec 212. **Outlines of Economics.** 3 hours. (PSC)

A rapid survey of the principles of economics and economic institutions. A maximum of three hours credit is allowed for Ec 201, 212.

Ec 320. **International Finance.** 3 hours. (UO)

The nature of foreign-exchange markets; techniques of international payments; exchange rates and their determination; problems of an international monetary standard; international banking facilities; economic aspects of major international organizations. Prerequisite: Ec 201, 202, 203 or consent of instructor.

Ec 414. **Economics of Natural Resources and Conservation.** (G) 3 hours. (UO)

Economic principles underlying development and conservation of natural resources, with emphasis on the forestry, fisheries, water, and recreational resources important to the Pacific Northwest economy. Development of techniques for assessing the economic efficiency of river-basin and other resource development programs. Taxation of natural resources. Prerequisites: Ec 201, 202, 203.

*Ec 423, 424. **Money and Banking.** (g) 3 hours each. (OSU)

Nature and functions of money; factors affecting price; forms of money; functions of banks; history of banking; Federal Reserve Bank Act; American and foreign banking systems. Prerequisite: elementary economics.

Ec 444. **Labor Economics.** (G) 3 hours. (UO)

Economic analysis applied to the labor market, with particular emphasis upon wage determination, the relation between wages and prices, and the relation between wages and employment. Prerequisite: Ec 201, 202, 203.

Ec 445. **Organized Labor.** (G) 3 hours. (UO)

Theories of the labor movement; history of the American labor movement; aims, methods, and policies of trade unions, conservative and radical; the impact of labor organizations on the American economy. Prerequisite: Ec 201, 202, 203.

Ec 446. **Labor Legislation.** (G) 3 hours. (UO)

Analysis of labor legislation in the United States and of court decisions in leading labor cases; problems facing employees, employer, and public that call for regulation through public authority. Prerequisite: Ec 201, 202, 203.

Ec 450. **Comparative Economic Systems.** 3 hours. (PSC)

Analysis and appraisal of contemporary economic systems; capitalist, socialist, fascist, communist. Prerequisite: Ec 201, 202, 203.

Ec 461. **Government Control of Private Business.** (G) 3 hours. (UO)

Survey of government regulation of business in the United States; historical development, present scope, economic and philosophic bases. Prerequisite: Ec 201, 202, 203.

Education

Ed 10. **Reading Improvement.** (noncredit) 2 hours. (DCE)

A non-credit course for adults who are interested in improving their reading

* Applicable toward a graduate major in agricultural economics, School of Agriculture.

abilities. A practical approach will be combined with some modern devices to improve reading skills, increase reading rate, and stabilize confidence in reading processes.

Ed 101. Methods of Study. 3 hours. (OSU)

Specific methods of study as applied to various subject-matter fields; the general principles of note taking; study schedule; fixing study habits; evaluation of the various broad fields of human learning. Laboratory work also scheduled.

Ed 310. School in American Life. 3 hours. (OCE)

The function of education in a democracy. Historical background and developmental growth of American school. School community relations and problems in education: Oregon School Law.

Ed 310. School in American Life. 3 hours. (OSU)

Problems of elementary and high schools from standpoint of teacher; aims, functions, and characteristics. Prerequisite: Psy 201, 202.

Ed 310. School in American Life. 3 hours. (PSC)

A course designed to acquaint prospective teachers with the historical and philosophical background and development of the American public school. Special attention will be given to the development of the present day curricular practices and to the function of the school in contemporary American society. Prerequisite: 6 hours of Anthropology or Sociology.

Ed 312. Educational Psychology: Learning. 3 hours. (OCE)

Mental health and the teacher-pupil relationship; the school child and his peer group; the nature of the learning process; the relation and significance of motivation to learning; the role of the teacher in learning; transfer of learning. Prerequisite: Psy 211 and/or 312, Ed 310.

Ed 312. Educational Psychology: Learning. 3 hours. (OSU)

Laws of learning and application to classroom; motivation; transfer of training; memory; forgetting; psychology of school subjects. Prerequisite: Psy 201, 202.

Ed 312. Educational Psychology: Learning. 3 hours. (PSC)

A consideration of the nature of the learner, changes which occur in learning processes, conditions under which learning best takes place, and the characteristics and methods of the teacher who directs learning in the school. Basic concepts of measurement are utilized to evaluate the changes which characterize learning. School observations supplement theoretical study. Prerequisite: 9 hours of Psychology including Human Development.

Ed 314. Principles of Secondary Teaching. 3 hours. (PSC)

Principles, procedures, and problems of classroom teaching; the organization of subject matter and different methods of presentation, implications for methods of individual and group differences, motivation, and discipline; measuring and evaluating the results of teaching. Public school classroom observations are required. Prerequisite: Ed 310, 312.

Ed 344. Physical Education in the Grades. 3 hours. (OCE)

Theory and practice in rhythm; group and folk dancing; stunts, games, self-testing activities, tumbling; materials; planning and evaluating programs with reference to basic principles of physical education for elementary and secondary teachers.

Ed 344. Physical Education in the Grades. 3 hours. (PSC)

A study of method and materials in organizing, conducting and evaluating the elementary school physical education program and the significance of its elements. Theory and practice with emphasis upon basic principles and implications from child growth and development characteristics which guide and determine teaching method and selection of class content. Prerequisite: Ed 310, 312.

Ed 351. School Health Programs. 3 hours. (PSC)

Teaching of health education with emphasis on health knowledge, health

attitudes and health habits of school children, and the development of a health-service program. Special study of the state health-education program. Prerequisite: 9 hours of Biological Science, and Ed 310, 312.

Ed 356. **Methods and Materials: Reading in the Elementary School.** 3 hours. (PSC)

The place of reading in the modern elementary school. Trends and practices in reading instruction and prevention of reading difficulties. A study of appropriate materials and methods. Classroom observation. Prerequisite: Ed 310, 312.

Ed 358. **Methods and Materials: Language Arts and Social Science.** 3 hours. (PSC)

Trends and practices in listening, speaking, spelling, handwriting and English. Educational objectives of social studies and social problems of elementary school pupils. Organization and planning of a unit of work. Attention will be given to appropriate methods and materials in language arts and social studies. Classroom observation is required. Prerequisite: Ed 310, 312.

Ed 359. **Methods and Materials: Science and Mathematics.** 3 hours. (PSC)

Science and mathematics in the elementary schools. Methods in the area of science, including experiments, demonstrations. Publications and other instructional materials. Trends and practices in the teaching of mathematics. Emphasis will be placed upon basic principles, research studies, problem solving, and the utilization of life situations. Prerequisite: Ed 310, 312.

Ed 388. **Children's Literature and Library.** 3 hours. (PSC)

An introductory course designed to give acquaintance with some significant books for children, with emphasis on the quality of a book, its format, text, and illustrations. An investigation of school library procedures with suggestions for the presentation of children's literature in the elementary school.

Ed 389. **Reading and Telling Children's Stories.** 3 hours. (PSC)

An introduction to the collection of old folk and modern fanciful tales, with laboratory practice in the reading and telling of stories for children through the elementary grades. Prerequisite: Ed 388 or consent of instructor.

Ed 390. **Enriching Children's Reading.** 3 hours. (PSC)

A study of the enrichment of children's reading through literature. An advanced course designed for parents and teachers of nursery, kindergarten, and elementary school children. Prerequisite: Ed 388 or consent of instructor.

Ed 401. **Research.** 3 hours. (PSC)

Consent of instructor.

Ed 406. **Special Problems in Elementary Education.** 3 hours. (PSC)

A seminar-type reading and conference course designed as an elective for candidates for the bachelor's degree in elementary education. It will embrace study and investigation of selected problems in teaching to meet needs of individual candidates.

Ed 407. **Braille.** 2 hours. (OCE)

Practicum in Braille for faculty, parents, and students.

Ed 407. **Seminar: Advanced Child Study.** (G) 3 hours. (UO)

Ed 407. **Seminar: The Dancer's Craft.** 2 hours. (PSC)

Consideration of dance as an art form, both in Education and Theatre. Uses of time, space and movement as a means of evolving and identifying dance forms and styles. Practice in dance technique and development of choreographic skills are included, along with study of aesthetics pertaining to the dance. *Enrollment limited to 12.* Prerequisite: Consent of instructor only.

Ed 407. **Seminar: Reading in the Elementary School.** 3 hours. (UO)

Ed 407-507. **Seminar: Prevention of Maladjustment.** 3 hours. (OSU)

Basic principles of sibling influences, family relationships, and purpose-

ful behavior of children. Laboratory counseling sessions involving identification and analysis of problems of individual children based upon the individual psychology of Alfred Adler.

Ed 407-507. **Seminar in Curriculum.** 3 hours. (EOC)

Ed 407-507. **Seminar: Child Health and Education Welfare under Different Ideologies.** 3 hours. (UO)

Ed 408. **Special Secondary Methods (Social Studies, or Humanities, or Science-Mathematics).** 3 hours in each field. (EOC)

Comparison and evaluation of methods and techniques of instruction. Opportunities are provided for students to select, organize and present portions of the material.

Ed 408. **Special Secondary Methods in Trades and Industrial Education.** (g) 3 hours. (OSU)

Problems and methods in selecting and organizing materials for instruction; comparison and evaluation of methods, laboratory techniques, supplies, equipment; economy of time and materials. Prerequisite: IEd 381 or consent of instructor.

Ed 409. **Practicum: Remedial Clinic—Diagnosis.** (G) Hours to be arranged. (UO)

Ed 409. **Practicum: Remedial Clinic—Remediation.** (G) Hours to be arranged. (UO)

Ed 410. **Methods and Research Materials.** (G) 3 hours. (EOC)

Problems and methods in selecting and organizing materials for teaching in any of the following fields: (a) Art, (b) Music, (c) Social Science, (d) Science, (e) Language Arts, (f) Reading, (g) Physical and Health Education, (h) Mathematics. Emphasis for graduate students will be placed upon recent research and literature dealing with instructional materials, methods, and facilities, including the completion of a special project. The student should register for elementary or secondary credit. (Maximum 6 hours undergraduate and 9 hours graduate.)

Ed 410. **Methods and Research Materials: Arithmetic (e).** (G) 3 hours. (OCE)

Problems and methods in selecting and organizing materials for teaching in arithmetic. Emphasis for graduate students will be placed upon recent research and literature dealing with instructional materials, methods, and facilities, including the completion of a special project. E indicates elementary level. (Maximum 6 hours undergraduate and 9 hours graduate.)

Ed 410. **Methods and Research Materials.** (G) 3 hours. (OCE)

Problems and methods in selecting and organizing materials for teaching in any one of the following fields: Art, Music, Social Science, Science, Language Arts, Reading, Physical and Health Education, and Arithmetic. Emphasis for graduate students will be placed upon recent research and literature dealing with instructional materials, methods, and facilities, including the completion of a special project. E indicates elementary level; S indicates secondary level. (Maximum 6 hours undergraduate and 9 hours graduate.)

Ed 410. **Methods and Research Material: Arithmetic Geometry.** (s) (G) 3 hours. (OCE)

Problems and methods in selecting and organizing materials for teaching.

Ed 410. **Methods and Research Materials: Language Arts.** 3 hours. (OCE)

Problems and methods in selecting and organizing materials for teaching.

Ed 410. **Methods and Research Materials: Reading.** (G) 3 hours. (OCE)

Problems and methods in selecting and organizing materials for teaching.

Ed 424. **Measurement in Education.** (G) 3 hours. (EOC)

Use and interpretation of informal and standardized tests as supervisory

and guidance instruments for the diagnosis, analysis, evaluation, and improvement of instruction in the elementary and secondary schools. Test planning, item writing, essay testing, administration and scoring, analysis of scores and grade assignment. Simple statistics of test interpretation. Prerequisite: Ed 313 or consent of instructor.

Ed 424. Measurement in Education. (G) 3 hours. (UO)

Use of interpretation of informal and standardized tests as supervisory and guidance instruments for the diagnosis, analysis, evaluation, and improvement of instruction in the elementary and secondary schools. Test planning, item writing, essay testing, administration and scoring, analysis of scores and grade assignment. The course includes simple statistics of test interpretation.

Ed 424. Measurements in Education. (G) 3 hours. (OSU)

Use of standard tests and scales to measure achievement in school subjects; elements of statistical method. Prerequisite: senior standing.

Ed 424. Measurement in Education. (G) 3 hours. (SOC)

Presentation of standardized tests in the various subjects taught in the schools and in group intelligence tests, the uses and limitations of such tests, the general principles of classroom test making, and practice in administering, scoring, and interpreting various tests given in the school.

Ed 427. School Activities. (G) 3 hours. (UO)

Principles and purposes of school activities; pupil participation in school government; assemblies; clubs, social activities; athletics, speech activities, drama, music, publications; evaluation of the school activity programs.

Ed 428. Psychology of Reading Instruction. (G) 3 hours. (UO)

Nature of the reading progress; factors of learning and development related to reading achievement; psychological foundations of methods and materials of reading instruction.

Ed 429. Principles of Remedial Education. (G) 3 hours. (UO)

Introduction to extreme school learning problems; factors associated with underachievement; general principles of diagnosis and remediation; diagnostic instruments and remedial resources. A first course in remedial education, with application to both elementary and secondary education.

Ed 431. Junior High School Curriculum. (G) 3 hours. (OSU)

Curriculum needs of junior high school pupil; scheduling core program, instructional materials in relation to ability and maturity of pupil. Prerequisite: Ed 310, 312.

Ed 432. Junior High School Guidance. (G) 3 hours. (OSU)

Diagnosis and evaluation of individual pupil; his abilities, interests, and aptitudes. Organization and administration of program, role of teachers and auxiliary-service staff. Prerequisite: Ed 310, 312.

Ed 435. Audio-Visual Aids. (G) 3 hours. (EOC)

A basic course dealing with the important role of instructional aids in school programs, especially in the classroom. Students have an opportunity to become acquainted with a wide variety of instructional materials and equipment, including auto-instructional devices. Special techniques for selection, procurement, presentation and evaluation of these materials are also studied. Opportunity is given for practical applications in the use of instructional materials, including integration within units of instruction, appraising materials, consulting sources, operating classroom equipment, using materials in class situations and evaluating the effectiveness of the use of materials in instruction.

Ed 435. Audio-Visual Aids. (G) 3 hours. (OCE)

Survey of the development and use of classroom films, slides, radio, electrical transcriptions, and other kindred visual and auditory aids in teaching; sources and appraisals of audio-visual aid materials, and their practical use.

- Ed 435. **Audio-Visual Aids.** (G) 3 hours. (OSU)
Film, slide, chart, and other visual materials; selection and use to best advantage; operation of projectors and other equipment. Prerequisite: senior standing. Students who do not have senior standing must have consent of instructor.
- Ed 435. **Audio-Visual Aids.** 3 hours. (PSC)
The development and use of audio-visual aids in education. Emphasis on actual learning situations in which radio, recordings, films, slides, pictures, maps, charts, etc., are utilized. Sources of materials and equipment; administration of audio-visual programs. Prerequisite: Admission to the program of studies in teacher education or consent of instructor.
- Ed 439. **The Gifted Child.** (G) 3 hours. (UO)
The psychology, education, and guidance of the mentally superior and the extraordinarily gifted child.
- Ed 440. **History of Education.** (G) 3 hours. (UO)
A general review of the growth and development of education in relation to the civilization of the times; emphasis on development of educational philosophies.
- Ed 442. **Group Dynamics.** 3 hours. (PSC)
Analysis of the dynamics of group interaction; significance and application of the principles of group behavior for the group worker. Prerequisites: 9 hours of Sociology and/or Psychology, and consent of instructor.
- Ed 446. **Philosophy of Education.** 3 hours. (PSC)
Study and comparison of the philosophical bases of educational ideas and of the educational implications of philosophical thought. Prerequisites: 6 hours of Philosophy, and Ed 310, 312, or consent of instructor.
- Ed 451. **Preprimary Education.** (G) 3 hours. (OCE)
An evaluation of the preprimary period in terms of the opportunities it affords to build up good attitudes toward school life, to help the child adjust himself to the group, to build up good habits of work, and to develop a readiness for subjects in the first-grade curriculum, such as reading, numbers, and language.
- Ed 452. **Creative Arts in Childhood.** (G) 3 hours. (OCE)
A course designed to assist the student in gaining insight into the many ways young children express themselves with creative media. Exploration will be made into the interrelationships of music and rhythm, graphic arts, constructed materials, literature, dramatic plays, and other areas of expression as young children use them.
- Ed 445. **Modern Philosophies of Education.** (G) 3 hours. (UO)
An examination of educational philosophies proposed by recent leaders and critics of American educational theory and practice.
- Ed 460. **Psychology of Childhood.** (G) 3 hours. (OSU)
Growth of behavior during the prenatal period, infancy, and childhood; development of muscular activities, perception, emotional adjustment, intelligence, language, and social behavior in childhood. Prerequisite: senior standing.
- Ed 461. **Psychology of Adolescence.** (G) 3 hours. (OSU)
Behavior changes during preadolescence and adolescence as related to physiological development and social and cultural factors. Emphasis on personal and social adjustment. Prerequisite: senior standing.
- Ed 462. **Psychology of Exceptional Children.** (G) 3 hours. (UO)
Characteristics and problems of all types of exceptional children, with special emphasis on those with sensory handicaps; consideration of essential educational adaptations.
- Ed 463. **The Maladjusted Child.** (G) 3 hours. (EOC)
The discovery and treatment of the emotionally and socially maladjusted

child; the home, school, and community in relation to the child's mental health.

Ed 463. **The Maladjusted Child.** (G) 3 hours. (OSU)

Discovery and treatment of emotionally and socially maladjusted child; home, school, and community in relation to child's mental health. Prerequisite: Ed 310, 312.

Ed 463. **The Maladjusted Child.** (G) 3 hours. (UO)

The discovery and treatment of the emotionally and socially maladjusted child; the home, school, and community in relation to the child's mental health. Opportunities for the observation of family counseling techniques.

Ed 464. **The Mentally Retarded Child.** (G) 3 hours. (UO)

The psychology, education, and guidance of the mentally retarded child.

Ed 465. **Diagnostic Techniques in the Basic Skills.** (G) 3 hours. (UO)

Analysis of difficulty in the skills of reading, spelling, arithmetic, and handwriting; selection, administration, and interpretation of group and individual diagnostic achievement tests; diagnostic procedures; development of the diagnostic report. Concurrent enrollment in Practicum: Remedial Clinic Diagnosis (Ed 409) required.

Ed 467. **Applied Mental Hygiene.** (G) 3 hours. (OCE)

The development of personality, personality conflicts, mechanisms of adjustment, and the basic principles of mental hygiene. Emphasis on application of mental hygiene principles to personality development of teachers and of children. Prerequisite: Psy 201, 202.

Ed 468. **Diagnostic and Remedial Techniques in Reading.** (G) 3 hours. (OSU)

Nature of the reading process, reading readiness, reading skills; causes of retardation; methods of diagnosing difficulties and evaluating progress; and procedures and materials for the development of reading abilities. Prerequisites: Ed 310, 312, 350.

Ed 468. **Remedial Techniques in the Basic Skills.** (G) 3 hours. (UO)

Organization and implementation of the remedial program; specific procedures in the remediation of difficulty in the skills of reading, spelling, arithmetic, and handwriting; location and creation of remedial instrumental materials. Concurrent enrollment in Practicum: Remedial Clinic-Remediation (Ed 409) required.

Ed 469. **Reading in High School and College.** (G) 3 hours. (UO)

Basic principles of reading instruction; nature and scope of the total reading program; methods, materials, and organization of the development and corrective reading programs in high school and college.

Ed 470. **Education of the Exceptional Child.** (G) 3 hours. (EOC)

Deals with those types of children who do not adjust readily to the usual school, home and social environment. Emphasis is placed on the emotionally unbalanced, the mentally retarded, and the inefficient children.

Ed 471. **Administration of Special Education.** (G) 3 hours. (UO)

Organizing, financing, housing, equipping, staffing, and supervising the special-education program; desirable educational provisions for each type of handicapped child; legal provisions for special education.

Ed 476. **School Law and Organization.** (G) 3 hours. (OCE)

The historic and current legal authority of federal, state, county, and local governments in the organization and administration of public school education. Special emphasis placed on the Oregon statutes as they apply to school organization, administration, and teaching.

Ed 476. **School Law and Organization.** (G) 2 hours. (SOC)

A study of Oregon laws applying to teachers and to schools.

Ed 476. School Law and Organization. (G) 2 hours. (UO)

Oregon laws applying to schools and teachers; teacher personnel policies and practices; professional organizations; means for continued professional growth.

Ed 480. The Psychology of Reading Instruction. (G) 3 hours. (EOC)

An advanced course in the teaching of reading at elementary and secondary levels. Fundamental nature of the reading process; principles of growth, adjustment, and learning basic to reading achievement; psychological foundations to method of reading instruction. Prerequisite: Ed 357 or consent of instructor.

Ed 483. General Intelligence Testing. (G) 4 hours. (EOC)

Administration, scoring and interpretation of the Wechsler and the revised Stanford-Binet Intelligence Scales. Prerequisite: consent of the instructor.

Ed 483. General Intelligence Testing. (G) 2-6 hours. (OCE)

Administration, scoring, and interpretation of the revised Stanford-Binet Intelligence Scales and the Wechsler test. Prerequisite: consent of instructor.

Ed 484. The Junior High School. (G) 3 hours. (OSU)

Development of junior high school; purpose and objectives; general organization; courses of study; present practices in leading representative junior high schools; direction of classroom activities; provision for individual differences; pupil personnel. Prerequisite: Ed 310, 312.

Ed 484. The Junior High School. (G) 3 hours. (UO)

Origin and functions of the junior high school; characteristics and needs of the early adolescent; administration of the junior high school; curriculum and instruction; guidance; school activities; evaluation.

Ed 485. Principles and Practices of Guidance Services. (G) 3 hours. (EOC)

An introduction to the field of guidance and counseling as related to the school. Methods and means of assisting students with personal, educational, and vocational problems are studied. Includes studies of school policies, administration and tests involved in a guidance program. The social agencies available to the school are also emphasized.

Ed 485. Principles and Practices of Guidance Services. (G) 3 hours. (OSU)

Beginning course in guidance. Overview of guidance and personnel work; vocational, educational, health, social, personality, recreational, and individual development; participation of teachers, counselors, administrators, parents, and community organizations in guidance program. For teachers and administrators. Prerequisite: senior standing.

Ed 485. Principles and Practices of Guidance Services. (G) 3 hours. (SOC)

An introduction to the field of guidance and counseling; methods and means of assisting students with personal and vocational problems, necessary school policies, administration, interpretation and classification of tests.

Ed 485. Principles and Practices in Guidance Services. (G) 3 hours. (UO)

The need for guidance services in the schools; tests, inventories, questionnaires, and records; the role of the home and the community in guidance; counseling the individual student.

Ed 486. Occupational and Educational Information. (G) 3 hours. (OSU)

Materials available regarding occupations; interpretations of present trends; value and usefulness for high school and college students. Prerequisite: senior standing.

Ed 487. Counseling Techniques. (G) 3 hours. (OSU)

Mental, achievement, trade, and other tests; administration of such tests; classification, methods in educational and vocational counseling. Prerequisite: Ed 485.

Ed 491. Social Education. (G) 3 hours. (UO)

Structure and functioning of society, as a background for the study and

evaluation of education in its varied forms; the contribution of sociological principles and findings to the improvement of educational practices.

Ed 493. **Observation and Evaluation of Teaching.** 3 hours. (PSC)

Opportunity for experienced teachers to observe modern trends in schools and other institutions, and to discuss educational theories and practices. A limited number can be assigned to the few places available for this course. Selection will be made from written applications filed in advance with the Director of Student Teaching.

Ed 501. **Research.** 3 hours. (OSU) (UO)

Ed 503. **Thesis.** 3 hours. (OSU) (UO)

Ed 505. **Reading and Conference.** 3 hours. (OSU) (UO)

Ed 507. **Seminar: Administrative Problems.** 3 hours. (UO)

Ed 507. **Seminar: Applied Mental Hygiene.** 3 hours. (UO)

Ed 507. **Seminar: Education of Physically Handicapped Children.** Hours to be arranged. (UO)

Ed 507. **Seminar in Curriculum.** 3 hours. (EOC)

Ed 507. **Seminar: Problems of Staff Personnel.** 3 hours. (UO)

Ed 507. **Seminar: Teacher/Pupil Relationships.** 3 hours. (OCE)

Ed 507. **Seminar: Teacher/Parent/Pupil Conferences.** 3 hours. (OCE)

Ed 507. **Seminar.** Terms and hours to be arranged. (OSU)

Ed 508. **Workshop: Applied School Law.** 3 hours. (UO)

Ed 508. **Workshop—In-Service: Review of Recent State Department Guide for Science in Grades 1-9.** 3 hours. (UO)

Ed 511. **Recent Educational Trends and Problems.** 3 hours. (OSU)

Trends, problems, and developments in all fields of education. Prerequisite: 24 hours of upper division education including student teaching.

Ed 512. **Research Procedures in Education.** 3 hours. (OSU)

Methods, techniques, and tools for doing research work; meaning of scientific method; ways of locating and formulating problems; techniques for solving problems; necessary statistical tools; collection and interpretation of data; preparation of research reports.

Ed 512. **Research Procedures in Education.** 3 hours. (UO)

The nature and procedures of research in education; special techniques of thesis, field study, research paper, and dissertation. Open to graduate students majoring in other fields. Does not take the place of individual supervision of the student's thesis. An introductory course in statistics is desirable preparation.

Ed 518. **Public and Professional Relations.** 3 hours. (EOC)

A consideration of the professional responsibilities and ethics of teachers as related to the lay public, related social agencies, and to the education profession. Procedures in group dynamics, public relations, advisory councils, working with parents and parent groups. Emphasis upon means for achieving the professionalization of teaching.

Ed 522. **Secondary-School Curriculum.** 3 hours. (UO)

Overview of the secondary-school curriculum, with emphasis on the various subject fields; organization of the school for curriculum development; educational objectives; the course of study; evaluation of the secondary-school curriculum.

Ed 526. **High-School Counseling.** 3 hours. (UO)

The purposes, techniques, and processes of counseling; dynamics of adjustment and personality change; methods of promoting emotional, educational, and occupational adjustment. Prerequisite: Ed 485.

- Ed 527. **Secondary-School Administration and Supervision.** 3 hours. (UO)
The secondary-school principalship; principles of administration, staff relationships, public relations, and professional growth; business administration; administration of guidance services, curriculum, and school activities; evaluation of the secondary school.
- Ed 528. **Group Testing in Schools and Colleges.** 3 hours. (UO)
An intensive study of the purposes, uses, administration, scoring, and interpretation of group tests commonly used in public schools and colleges. Testing in the areas of achievement, aptitudes, interests, personality, etc. Designed primarily for advanced students in educational psychology, human development, psychometrics, and counseling. Prerequisite: Ed 424.
- Ed 534. **Science in the Elementary School.** 3 hours. (UO)
The place of science in the elementary school, with particular reference to the value of science in the lives of children. Selecting and organizing content; coordinating science with elementary-school activities; methods and materials; rooms and equipment.
- Ed 535. **Social Studies in the Elementary School.** 3 hours. (UO)
Social-education objectives; children's social problems; unit development; work-study skills; organization of the program; materials; research findings basic to the social education of children.
- Ed 536. **Language Arts in the Elementary School.** 3 hours. (UO)
The role of language arts in the elementary school program; objectives; research findings on language development; the teaching of spelling, writing, and speaking-listening skills; newer instructional materials; testing and evaluation.
- Ed 537. **Reading in the Elementary School.** 3 hours. (UO)
Nature of the reading process, objectives, organization of a desirable reading program; reading readiness, reading skills; procedures and materials for developing children's reading abilities; methods of diagnosing difficulties and evaluating progress; research findings concerning the teaching of children to read.
- Ed 538. **Mathematics in the Elementary School.** 3 hours. (UO)
Number abilities needed by children; research findings in mathematics education; designing number experiences; theories of teaching, desirable teaching procedures, selection and use of materials.
- Ed 543. **History of American Education.** 3 hours. (OSU)
Intellectual developments of America with special reference to education. Prerequisite: graduate standing in education.
- Ed 546. **Philosophy of Education.** 3 hours. (OSU)
Fundamental problems of education, with some attempt at their solution; meaning of philosophy of education; value for teacher and administrator. Prerequisite: graduate standing in education.
- Ed 552. **Elementary-School Problems.** 3 hours. (UO)
A study of current problems, issues, significant research, and theories in the field of elementary education.
- Ed 553. **Elementary-School Curriculum.** 3 or 4 hours. (UO)
A systematic study of the elementary-school curriculum, including pupil needs in everyday life situations, objectives, essentials of a good program, varying curriculum designs, organization of learning experiences, evaluation of learning, and appraisal of newer curriculum practices.
- Ed 554. **Elementary-School Supervision and Administration.** 3 hours. (UO)
For mature students of elementary education who are preparing for administrative or supervisory positions. Characteristics of good elementary schools, leadership responsibilities and processes, school organization patterns, pupil personnel policies, school-community relationships.

- Ed 561. **Advanced Educational Psychology.** 3 hours. (OSU)
Experimental material that seems most useful and relevant to educational psychology. Prerequisite: graduate standing in education.
- Ed 562. **Issues in Extreme Learning Difficulty.** 3 hours. (UO)
Theory and research concerning extreme learning problems in the basic skills; analysis of differential learning capacity; reading-listening relationships; sensory-motor modes of remediation; social-emotional correlates of skills disability; therapeutic elements of remediation.
- Ed 563. **Diagnosis in Mental Retardation.** 3 hours. (UO)
Critical evaluation of instruments and techniques used in the identification and diagnosis of mentally retarded children; practice in the solution of problems involving the mentally retarded. Prerequisite: Ed 424, 464, 489; or consent of instructor.
- Ed 564. **Mental Tests.** 3 hours. (UO)
Selection, administration, and interpretation of individual tests. Problems in testing exceptional and extremely deviate children. Prerequisite: Ed 424, 525.
- Ed 565. **Curriculum Foundations.** 3 hours. (UO)
Implications of basic social, philosophical, and psychological factors in curriculum planning and organization; historical background; techniques of curriculum planning.
- Ed 566. **Curriculum Construction.** 3 hours. (OSU)
Building elementary and secondary school curricula; theories and policies since 1900; selecting and organizing subject matter; courses of study; curriculum organization. Prerequisite: 24 hours of upper division credit in education including student teaching.
- Ed 566. **Curriculum Construction.** 3 hours. (UO)
Survey and appraisal of curricular patterns; state and city programs; courses of study in major subject areas; techniques of course-of-study planning.
- Ed 572. **Public School Administration.** 3 hours. (UO)
Interpersonal relationships in administration; school-board powers, duties, roles, relationships; the superintendency-roles, responsibilities, issues, problems; problems of staff personnel; student personnel problems at the local district level; problems and issues relating to the development of effective school-community relationships.
- Ed 573. **Public School Organization.** 3 hours. (UO)
The schools in relation to state and Federal agencies; the intermediate unit, its purposes, organization, trends; local school districts—problems of organization, plant planning and management, school business administration, transportation, school finance, textbooks and supplies; extralegal agencies affecting education.
- Ed 574. **School Supervision.** 3 hours. (UO)
The role of the supervisor in keeping education geared to the changing demands of society; theories of leadership; group processes and individual conference techniques; action research and related approaches to curriculum changes; analysis of concrete supervisory problems.
- Ed 575. **School Finance.** 3 hours. (EOC)
Emphasis upon the major problems of financing education, including principles in budget making, problems of school revenues, tax sources, and the unit costs of education.
- Ed 575. **School Finance.** 3 hours. (UO)
The problems of school finance and business management; sources of school income; relationship to the state financial structure; budgeting and accounting. Includes the construction of a school budget. Prerequisite: work in administration and organization; or consent of instructor.

Ed 576. School Buildings. 3 hours. (UO)

Study of the problems involved in planning, financing, and construction of school buildings; care and maintenance of buildings; problems of equipment. Includes analysis of the problems of a specific district. Prerequisite: work in administration and organization; or consent of instructor.

Ed 588. Supervised Counseling Techniques. 3 hours (OSU)

Provides actual counseling experience in counseling laboratory. Interviewing; administering, scoring, and interpreting psychological tests; writing case studies. Consent of instructor required. Prerequisite: Ed 485, 487; Psy 478, 479, 480.

Ed 589. Organization and Administration of Guidance Services. 3 hours. (UO)

Principles and functions of guidance; organizing the guidance program; guidance personnel; evaluation of the school's guidance services.

Ed 593. Methods in Secondary-School Language Arts. 3 hours. (UO)

Review of research in the problems of teaching language arts in the secondary schools; observation and participation in demonstration teaching of literature, grammar, and composition. Designed for administrators and supervisors, as well as classroom teachers. Prerequisite: teaching experience or consent of instructor.

Ed 594. Methods in Secondary-School Mathematics. 3 hours. (UO)

Development of proficiency in the use of the problem-solving approach to the teaching of topics in arithmetic, algebra, geometry, and advanced high-school mathematics. Consideration of the strength, inadequacies, and needed revisions of the present-day mathematics curriculum. Prerequisite: teaching experience or consent of instructor.

Ed 596. Methods in Secondary-School Social Studies. 3 hours. (UO)

Trends in the social-studies curriculum; the unit method of teaching; the core curriculum; social-studies materials and teaching techniques; teaching reflective thinking; teaching current affairs. Students may work on problems of individual interest, and prepare materials for use in junior and senior high-school classes. Prerequisite: teaching experience or consent of instructor.

Engineering

Civil Engineering

CE 312, 313. Photogrammetric and Control Surveying. 3 hours each. (OSU)

First term: principles, theory, and applications of photogrammetry to civil engineering projects. Second term: control surveys, map projections, and coordinate systems. Prerequisite: CE 222.

CE 405. Reading and Conference. 3 hours. (OSU)

Advanced photogrammetric and control surveying applications; application of photogrammetric and control survey principles to field and laboratory problems.

CE 505. Reading and Conference. 3 hours. (OSU)***CE 517. Soil Mechanics.** 3 hours. (OSU)

Factors affecting settlement of building foundations; stability of earth dams and dikes; variations in shear strength of clays; principle of flow nets; trends in soil mechanics.

CE 526. Hydraulics of Open Channels. 3 hours. (OSU)

Steady, uniform, and nonuniform flow in open channels including transitions, delivery curves, side channel spillways, cavitation, and open channel surges. Prerequisite: CE 521.

* This course is the first of a three-term sequence in soil mechanics and is a prerequisite for the other two which will be offered in succeeding years.

CE 531, 532, 533. **Analysis and Design of Engineering Structures.** 3 hours each. (OSU)

CE 531: Stress analysis of statically indeterminate frameworks. CE 532, 533: Analysis and design of steel and concrete structures. Prerequisite: CE 483, 485.

CE 560. **Coastal Engineering.** 3 hours. (OSU)

Deep and shallow water waves, shoaling effects, littoral drift, coastal structures, coastal pollution problems. Prerequisite: GE 302.

Electrical Engineering

EE 321, 322, 323. **Circuits and Electronics.** 4 hours each. (OSU)

Fundamental theory of electronics, emission, conduction in solids, vacuum, and gasses; principles of vacuum, gas, and vapor tubes, solid state electronic devices and their associated circuits; analysis and synthesis of circuits using the Laplace transformation and the complex plane. Prerequisite: GE 203; Mth 321.

EE 405. **Reading and Conference: Power System Stability.** 3 hours. (OSU)

Detailed consideration of the ability of synchronous machines of an electric power system to remain in synchronism during overloads, short circuits, and other disturbances. Methods of making studies and improving stability. Prerequisite: a course on system analysis or equivalent experience.

EE 505. **Reading and Conference.** Hours to be arranged. (OSU)

EE 507. **Seminar.** Hours to be arranged. (OSU)

EE 507. **Seminar: Instrumentation.** 3 hours. (OSU)

Electrical measurements applied to electrical and non-electrical systems. Basic mechanisms, transducers, and signal conversion and modification. Digital systems, telemetering, and data acquisition and display.

EE 561, 562, 563. **Communication Systems.** 3 hours each. (OSU)

Switching systems. Communication and noise. Information theory.

General Engineering

GE 212. **Mechanics of Solids.** 3 hours. (OSU)

Principles of particles, systems of particles in motion (dynamics). Prerequisite: Mth 201, Ph 208.

GE 301, 302. **Mechanics of Fluids.** 3 hours each. (OSU)

Incompressible and compressible fluids, effects of fluid properties on pressure distribution and flow patterns, similitude relationships. Prerequisite: Ph 208, Mth 203.

Industrial Engineering

IE 505. **Reading and Conference.** Hours to be arranged. (OSU)

IE 506. **Projects: Production Planning and Control.** 3 hours. (UO)

IE 591. **Operation Analysis.** 3 hours. (OSU)

Current operation analysis techniques; application of work-study techniques to advanced problems. Prerequisite: IE 371, 372, 373.

IE 592. **Timing Techniques.** 3 hours. (OSU)

Modern time-study methods; critical study of allowances, skill levels, and other advanced problems. Prerequisite: IE 371, 372, 373.

Mechanical Engineering

ME 505. **Reading and Conference.** Hours to be arranged. (OSU)

- ME 512. **Engineering Materials.** (Second term) 3 hours. (OSU)
Critical study of materials specifications and testing procedures. Recent developments and applications in the fields of engineering metals and alloys. Prerequisite: GE 323.
- ME 526. **Thermodynamics.** (Second term) 3 hours. (OSU)
Classical thermodynamics, properties of imperfect gases, availability functions and equilibrium constants. Prerequisite: GE 313.
- ME 528. **Heat Transfer.** (Second term) 3 hours. (OSU)
Study of analytical and dimensional analysis methods for solution of transient and steady state heat transfer problems. Prerequisite: ME 424.

English

- Eng 101, 102, 103. **Survey of English Literature.** 3 hours each. (OSU)
History of English literature in chronological sequence. Recommended for a major or minor in English.
- Eng 101, 102, 103. **Survey of English Literature.** 3 hours each. (PSC)
From *Beowulf* to the present. Eng 101: *Beowulf* to Milton; Eng 102: Milton to Byron; Eng 103: Byron to the present.
- Eng 101, 102, 103. **Survey of English Literature.** 3 hours each. (UO)
Study of the principle works of English literature based on reading selected to represent great writers, literary forms, and significant currents of thought. Provides both an introduction to literature and a background that will be useful in the study of other literatures and other fields of cultural history. *Eng 101*: Anglo-Saxon beginnings to the Renaissance; *Eng 102*: Milton to Wordsworth; *Eng 103*: Byron to the present.
- Eng 104, 105, 106. **Appreciation of Literature.** 3 hours each. (OSU)
Appreciation and criticism of literature with emphasis throughout on ideas and motive.
- Eng 104, 105, 106. **Appreciation of Literature.** 3 hours each. (PSC)
The aim is to stimulate the appreciation and criticism of literature through a study of the outstanding works in prose and poetry, selected from all periods including the twentieth century.
- Eng 104, 105, 106. **Introduction to Literature.** 3 hours each. (UO)
Study of literature and the nature of literary experience through the reading of great works of prose and poetry, drawn from English and other literatures. Works representing the principal literary types are read in their entirety when possible, with emphasis on such elements as structure, style, characterization, imagery, and symbolism.
- Eng 107, 108, 109. **World Literature.** 3 hours each. (EOC)
A year sequence to acquaint the student with literature that has had permanent appeal or influence in western civilization, including such works and writers as the Bible, Homer, Aeschylus, Virgil, Dante, Chaucer, Cervantes, Milton, Rousseau, Goethe, Balzac, and Joyce.
- Eng 107, 108, 109. **World Literature.** 3 hours each. (OSU)
Masterpieces of the ancient, medieval, Renaissance, and post-Renaissance world.
- Eng 107, 108, 109. **World Literature.** 3 hours each. (PSC)
A sequence in narrative prose, drama, and poetry. Complete books are included so that the student may be familiar with some of the masterpieces in western world literature.
- Eng 107, 108, 109. **World Literature.** 3 hours each. (SOC)
A sequence to acquaint the student with outstanding works of ancient, medieval, and modern literature that have had a permanent and wide appeal

outside their own country. Masterpieces from the Oriental, Greek, Roman, Italian, French, Spanish, German, Scandinavian and Russian literature are studied.

- Eng 115. **Effective Reading.** 3 hours. (OSU)
Designed to develop better comprehension and greater speed in reading.
- Eng 201, 202, 203. **Shakespeare.** 3 hours. (OSU)
The major plays. Recommended for a major or minor in English.
- Eng 201, 202, 203. **Shakespeare.** 3 hours each. (PSC)
Study of the important plays—comedies, histories, and tragedies.
- Eng 201, 202, 203. **Shakespeare.** 3 hours each. (UO)
Study of the important plays—comedies, histories, and tragedies. Required for majors.
- Eng 211. **Vocabulary Building.** 3 hours. (OSU)
- Eng 253, 254, 255. **Survey of American Literature.** 3 hours each. (OSU)
American literature from its beginning to present day. Recommended for a major or minor.
- Eng 253, 254, 255. **Survey of American Literature.** 3 hours each. (PSC)
American literature from its beginning to the present day.
- Eng 311, 312, 313. **Tragedy, Comedy, and Satire.** 3 hours each (PSC)
Eng 311: Tragedy. A study of the nature of tragedy. Eng 312: Comedy. The comic view in nondramatic forms, as well as in the stage tradition. Eng 313: Satire. Satire, or criticism through ridicule, as a major type of literary expression.
- Eng 384, 385, 386. **Contemporary Literature.** 3 hours each. (PSC)
Modern British, American, and continental literature.
- Eng 391, 392, 393. **American Novel.** 3 hours each. (UO)
Development of the American novel from its beginnings to the present.
- Eng 394, 395, 396. **Twentieth-Century Literature.** 3 hours each. (OSU)
Twentieth century American and British fiction, drama, and poetry.
- Eng 394, 395, 396. **Twentieth-Century Literature.** 3 hours each. (UO)
A critical survey of British, American, and some European literature from 1890 to the present; significant works of poetry, drama, and fiction studied in relation to intellectual and historical developments.
- Eng 407. **Seminar in Special Authors: Metaphysical and Cavalier Poets from Donne through Rochester.** (G) 3 hours. (UO)
- Eng 407. **Seminar in Special Authors: Milton's Poetry with Special Emphasis on Themes and Style.** (G) 3 hours. (UO)
- Eng 407. **Seminar in Special Authors: Neo-Classical Poetry.** (G) 3 hours. (UO)
The moods, themes, and forms of poetry from 1660-1770, with special emphasis on the poetry of Dryden, Swift, and Pope.
- Eng 417, 418, 419. **The English Novel.** (g) 3 hours each. (OSU)
Selected English novels of 18th and 19th centuries. Eng 417: Richardson through Austen. Eng 418: Scott through Trollope. Eng 419: Bronte to present. Prerequisite: 9 hours of literature.
- Eng 428. **Chaucer.** (g) 3 hours. (UO)
As much of Chaucer's work read as time permits.
- Eng 481, 482, 483. **Major American Writers.** (G) 3 hours each. (UO)
Intensive study of two or three major authors each term, such as Hawthorne, Emerson, Whitman, Melville, James, Twain, Dickinson, Frost, Eliot, Hemingway, Faulkner.

- Eng 488. **Literature for Teachers.** (g) 3 hours. (OSU)
For students who plan to teach English. Critical reading and analysis of literature selected primarily from state-adopted texts.
- Eng 488. **Literature for Teachers.** (g) 3 hours. (UO)
For students interested in teaching high-school English. Training in comprehension and analysis of fiction, poetry, and drama from English and American literature. Recommended for prospective high-school teachers.
- Eng 490. **Development of the English Language.** (g) 3 hours. (OCE)
Growth of the English language from its beginning to the present day.
- Eng 490. **Development of the English Language.** (g) 3 hours. (OSU)
- Eng 491. **Introduction to Modern English.** (g) 3 hours. (UO)
A general view of modern English vocabulary, grammar, pronunciation, and spelling. Eng 491 is recommended for students preparing for the teaching of English in the secondary schools.
- Eng 494. **Nature of the English Language.** (g) 3 hours. (OCE)
A general view of the English language with emphasis on modern American language.

Foods and Nutrition

- FN 411. **Family Food Buying.** (g) 3 hours. (OSU)
Principles of economics applied to buying food for the home; evaluation of current information; cost factors, food laws, quality standards. Prerequisite: FN 313; Ec 212.

Forest Management

- F 407-507. **Seminar: Forest Conservation.** 3 hours. (OSU)
This program is made possible by a grant from Louis W. and Maud Hill Family Foundation of St. Paul, Minnesota. Tuition scholarships are available to participants.

General Studies

- GSt 331. **The Idea of Utopia.** 3 hours. (PSC)
A study of how the ideal state is used to criticize existing social, political, religious and scientific situations and of how the form of "Utopia" evolves from courtesy and voyage literature, from romantic fiction, allegory and satire.

Geography

- Geog 105, 106, 107. **Introductory Geography.** 3 hours each. (OSU)
Elements and implications of geography. *Geog 105*: World Regions; Analysis of the patterns of world environment; man and his activities. *Geog 106*: Economic Geography; world commodity production. *Geog 107*: Political Geography; implications of geography on world political entities. To be taken in sequence.
- Geog 105, 106, 107. **Introductory Geography.** 3 hours each. (PSC)
A general introduction to the field of geography, in sequence as follows: *Geog 105*: physical elements; *Geog 106*: regional geography of North America, South America, and Europe; *Geog 107*: regional geography of the USSR, Africa, and Asia. Geog 105 is prerequisite to Geog 106 and Geog 107.
- Geog 105, 106, 107. **Introductory Geography.** 3 hours each. (UO)
A general introduction to the field of geography, in sequence as follows:

Geog 105: physical geography; *Geog 106*: regional survey of the world; *Geog 107*: cultural geography.

Geog 304, 305, 306. Economic Geography. 3 hours each. (PSC)

A systematic survey of man's occupation in terms of the distribution, use and circulation of earth resources to be presented as follows: *Geog 304*: Geography of Primary Production; *Geog 305*: Industrial Geography; *Geog 306*: Geography of Transportation.

Geog 313. Geography of the Pacific Northwest. 3 hours. (PSC)

Analysis of human and economic geography of the Pacific Northwest with special attention to Oregon. Prerequisite: *Geog 105* or *Geog 208, 209, 210*.

Geog 331. Geography of Asia. 3 hours. (OSU)

Geographic appraisals of Asiatic countries including the island fringe; human, cultural, and economic conditions; national economies and world relationships; implications for present and future. Prerequisite: *Geog 107*.

Geog 331. Geography of Asia. 3 hours. (PSC)

A study of the economic basis of human life; problems of population pressure; trends in economics and political exploitation; and the geographic backgrounds of oriental and occidental interrelations. Prerequisite: *Geog 105* or *Geog 208, 209, 210*.

Geog 414. Geographic Background of American History. 3 hours. (PSC)

The influence of geographic factors on colonization, settlement patterns and westward movement in America. Prerequisite: 9 hours of history or 9 hours of geography.

Geog 426. Geography of Europe. 3 hours. (PSC)

The geographic backgrounds of European civilization; present day regional and political adjustments to environmental conditions; geographical aspects of European colonial expansion; analysis of the geographical individualities of the major countries, and the relations between human life and natural environment. Prerequisite: *Geog 105* or *Geog 208, 209, 210*.

Geog 427. Geography of the Soviet Union. (g) 3 hours. (OCE)

Geography of the Soviet Union; its resources, peoples, and world position.

Geog 427. Geography of the Soviet Union. (G) 3 hours. (UO)

Geography of the Soviet Union; its resources, peoples, and world position. Prerequisite: 6 hours in lower-division geography courses or consent of instructor.

Geog 432. Geography of Africa. (g) 3 hours. (OCE)

A study of the African continent, its nations and colonies. The physical and cultural geography of the regions of the continent and their geographical implications.

Geog 432. Geography of Africa. (G) 3 hours. (UO)

Physical, economic, and political geography of the African continent, with special emphasis on the area south of the Sahara. Prerequisite: 6 hours in lower-division geography courses or consent of instructor.

Geog 433. Geography of the Pacific. 3 hours. (PSC)

A study of the Pacific ocean environment and its islands including the Philippines, Indonesia, Australia and New Zealand; the Pacific as an avenue of migration, and communication; distinctive marine and insular influences on nature, man, and his activities. Prerequisite: *Geog 105* or *Geog 208, 209, 210*.

Geog 435. Urban Geography. (G) 3 hours. (UO)

World distribution of great cities; urban patterns, forms, and functions; systems of urban land classification; forces affecting urban land use; geographic aspects of city planning. Prerequisite: 6 hours in lower-division geography courses or consent of instructor.

Geog 451. Geography of Asia. (g) 3 hours. (OCE)

A study of economic and social development of the countries of Asia; the

economic bases of human life; problems of population pressure; trends in economic and political exploitation; and the geographic backgrounds of oriental and occidental interrelations.

Geog 451. Geography of Eastern Asia. (G) 3 hours. (UO)

Intensive study of the physical and cultural processes that have shaped the landscapes of Eastern Asia. Prerequisite: 6 hours of lower-division geography or consent of instructor.

Geog 452. Geography of Southern Asia. (G) 3 hours. (UO)

Intensive study of the physical and cultural processes that have shaped the landscapes of Southern Asia. Prerequisite: 6 hours of lower-division geography or consent of instructor.

Geog 463. Geography of Middle America. (G) 3 hours. (UO)

Intensive study of the physical and cultural processes that have shaped the landscapes of Middle America. Prerequisite: 6 hours of lower-division geography or consent of the instructor.

Geog 464. Geography of South America. (G) (First term) 3 hours. (UO)

Intensive study of the physical and cultural processes that have shaped the landscapes of South America. Prerequisite: 6 hours of lower-division geography or consent of instructor.

Health Education, Physical Education, and Recreation

Health Education

HE 151. Personal Hygiene. 2 hours. (SOC)

Basic scientific knowledge for healthful living; relation of the health of individuals to family and community welfare and the national vitality and progress; fundamental factors involved in intelligent behavior.

HE 250. Personal Health. 3 hours. (PSC)

Study of the personal health problems of men and women with emphasis on implications for family life. Mental health, communicable diseases, degenerative diseases, nutrition. Satisfies the requirement in health education for men and women. (Three hours maximum credit for any combination of HE 150 and HE 250.)

HE 250. Personal Health. 3 hours. (UO)

Study of the personal health problems of university men and women, with emphasis on implications for family life. Mental health, communicable diseases, degenerative diseases, nutrition. Satisfies the university requirement in health education for men and women.

HE 252. First Aid. 3 hours. (PSC)

Study of first aid and safety procedures—for the individual, schools, athletics, and civilian defense; meets certification standards of the American Red Cross.

HE 254. Advanced Hygiene. 3 hours. (PSC)

Personal health, exercise, weight control, prevention of infection, social hygiene, diet, stimulants, injurious popular remedies and fads, sunlight, air and ventilation, choosing a doctor, and life-extension problems.

HE 542. Basic Issues in Health Education. 3 hours. (UO)

Current basic issues and problems in school health education; economic and social forces affecting health education; implications for progress.

HE 543. Advanced Health Instruction. 3 hours. (UO)

Organization of the public-school health-instruction program; for health teachers, supervisors and coordinators. Basic steps in the development of the program. Prerequisite: HE 464 or consent of instructor.

HE 552. Administration of School Health Education. 3 hours. (UO)

Organization and administration of the school health program.

Physical Education

- PE 180. **Physical Education (Women).** (Social Dance) 1 hour. (PSC)
A variety of activities taught for physiological and recreation values. Special sections for restricted and corrective work. A total of five terms in different activities required.
- PE 190. **Physical Education (Men).** (Social Dance) 1 hour. (PSC)
A variety of activities taught for physiological and recreational values. Special sections for restricted and corrective work. A total of five terms in different activities required.
- PE 341. **Principles and Practices of Physical Education.** 3 hours. (PSC)
An interpretative study and analysis of the principles and practices of physical education, through their historical development and in their present application and significance.
- PE 408-508. **Workshop for Elementary School.** 3 hours. (UO)
- PE 420. **Methods in Elementary School Physical Education.** 3 hours. (UO)
Program development; methods of instruction in elementary-school physical education. The purposes and requirements of the elementary physical education program, with emphasis on program planning, methods and materials of instruction.
- PE 480. **Driver Education and Training.** (G) 3 hours. (OSU)
Preparation of teachers for driver-training classes in high schools; behind-the-wheel instruction in dual-control training cars.
- PE 517. **Methods of Research.** 3 hours. (UO)
Study of the methods and techniques of research in health, physical education, and recreation; practice in application to problems of current interest.

Recreation

- Rec 407-507. **Seminar: Organization and Administration of Camping.** 3 hours. (UO)
Organizational and administrative aspects of organized camping; principles and problems of leadership and group behavior; personnel; budgets, camp sites; publicity; and health and safety.
- Rec 407-507. **Seminar: Recreation Administration.** 3 hours. (UO).
Organization and administration of recreation programs in recreation districts, municipalities, and counties; legal aspects; source of funds; types of programs.
- Rec 407-507. **Seminar: Youth and Leadership.** 3 hours. (UO)
Problems of adolescence and youth in recreation and voluntary agencies; character development through club work; analysis of social adjustment and leadership in the agency setting.

History

- Hst 101, 102, 103. **History of Western Civilization.** 3 hours each. (OCE)
Development of western civilization from early beginnings to the present time; political, social, and cultural factors; present conditions and problems.
- Hst 101, 102, 103. **History of Western Civilization.** 3 hours each. (OSU)
Survey of history of man, his governmental, economic, social, religious, intellectual, and esthetic activities, from earliest times to present, in Europe, Asia, and Americas. Special effort is made to relate past to contemporary events and institutions.
- Hst 101, 102, 103. **History of Western Civilization.** 3 hours each. (PSC)
Origins and development of Western civilization from ancient times to the present.

- Hst 101, 102, 103. **History of Western Civilization.** 3 hours each. (SOC)
The development of world civilization from early beginnings to the present time; political, social, and cultural factors; present conditions and problems. The three terms constitute a sequence but may be taken separately.
- Hst 101, 102, 103. **History of Western Civilization.** 3 hours each. (UO)
Origins and development of Western civilization from ancient times to the present.
- Hst 201, 202, 203. **History of the United States.** 3 hours each. (OCE)
Development of the American nation, with emphasis on its political and social concepts.
- Hst 201, 202, 203. **History of the United States.** 3 hours each. (PSC)
From colonial times to the present day.
- Hst 201, 202, 203. **History of the United States.** 3 hours each. (SOC)
A study of the development of the American nation, with emphasis on its political and social concepts based on the student's interests and experiences. Attention is given to the factual and casual elements entering into the historical growth of the country, to the form and function of its government and to the adaptations that have been made to changing social and economic conditions.
- Hst 201, 202, 203. **History of the United States.** 3 hours each. (UO)
From colonial times to the present day.
- Hst 224, 225, 226. **History of American Civilization.** 3 hours each. (OSU)
Rise and development of American civilization from beginning to present; special attention to economic, social, and cultural life, political changes and international relations.
- Hst 301, 302, 303. **Europe since 1789.** 3 hours each. (UO)
Political, social, economic, and cultural trends from the French Revolution to the present. *Hst 301: 1789 to 1870; Hst 302: 1870 to 1918; Hst 303: 1918 to the present.*
- Hst 341, 342, 343. **Europe Since 1789.** 3 hours each. (PSC)
Political, social, economic, and cultural trends from the French Revolution to the present. *Hst 341: 1789 to 1890; Hst 342: 1890 to 1929; Hst 343: 1929 to the present.*
- Hst 432. **Reformation.** (G) 3 hours. (UO)
The Protestant and the Catholic reform of the sixteenth century.
- Hst 443. **History of France.** (G) (Third term). 3 hours. (UO)
France since 1940.
- Hst 447, 448, 449. **History of Russia.** (G) 3 hours each. (UO)
Hst 447: the Kievan state and the emergence of Muscovy; Hst 448: creation of the Russian Empire, political, social and economic developments; Hst 449: revolutionary Russia, 1861 to the present.
- Hst 453. **History of Germany.** (G) (second term) 3 hours. (UO)
The Weimar Republic, the Nazi era, World War II, and the postwar development of East and West Germany.
- Hst 457. **The Era of American Sectional Conflict.** (G) 3 hours. (UO)
Forces, events, and persons that contributed to unity and particularism in the United States during the first half of the nineteenth century.
- Hst 458. **The Era of the Civil War.** (G) 3 hours. (UO)
Intensive study of the critical decade before the Civil War and of the course of that conflict.
- Hst 459. **The Era of Reconstruction.** (G) 3 hours. (UO)
Problems of the tragic era following the Civil War; continuing effects to the end of the nineteenth century.

- Hst 460, 461, 462. **American Thought and Culture.** (g) 3 hours each. (OSU)
Growth of American thought, ideals, and institutions; analysis of contribution to American culture by schools, newspapers, magazines, motion pictures, radio, art, literature, television, and philosophy. Prerequisite: Hst 224, 225, 226.
- Hst 460, 461, 462. **American Thought and Culture.** (G) 3 hours each. (UO)
Main currents of American intellectual and cultural life from colonial times to the present. Prerequisite: Hst 201, 202, 203 or consent of instructor.
- Hst 469. **Twentieth-Century England.** (G) 3 hours. (UO)
Social, political, economic, and intellectual changes in Great Britain in the twentieth century.
- Hst 476, 477. **History of the West.** (G) 3 hours each. (UO)
The American frontier. First term: the early American frontier; second term: the Great Plains and the Far West.
- Hst 478. **History of the Pacific Northwest.** (G) 3 hours. (UO)
Detailed study of the building of civilization in the Pacific Northwest. Prerequisite: Hst 201, 202 or consent of instructor.
- Hst 479. **Forces and Influences in American History.** (G) 3 hours. (UO)
Geographic influences; influence of the frontier; inheritance and tradition; economic forces; nationalism; sectionalism; manifest destiny; democracy.
- Hst 480, 481, 482. **The United States in the Twentieth Century.** (g) 3 hours each. (OSU)
Development of political and economic institutions since 1897; relevant social and cultural changes. Prerequisite: Hst 224, 225, 226.
- Hst 487, 488, 489. **American Economic History.** (G) 3 hours. (UO)
The economic development of the United States.
- Hst 492. **World Problems.** (g) 3 hours. (EOC)
Current problems are considered relative to geographic, demographic, economic and strategic factors of nations and of world regions. This includes population distribution, natural resources and commercial interests. Intended to familiarize the student with policies of world powers and with processes and institutions affecting international harmony.

Home Economics

- HHEc 331. **Home Planning and Furnishing.** 3 hours. (UO)
Principles involved in the planning and furnishing of a home in the contemporary world; scientific, aesthetic, and traditional factors.

Home Economics Education

- HHEd 440. **Homemaking Education in the Community High School.** (G)
Hours to be arranged. (OSU)
Stimulation of interest in assuming leadership in programs of home and family living by extension of secondary homemaking departments into school and community through development of home and family life education at all levels of day-school and adult-education programs under vocational education.
- HHEd 507. **Seminar: Methods of Teaching Clothing.** Hours to be arranged. (OSU)
- HHEd 511. **Current Methods in Teaching Homemaking.** 3 hours. (OSU)
Current trends in education applied to homemaking education. Prerequisite: Ed 408d.

Humanities

Hum 307. **Seminar: Writing Poetry.** 3 hours. (OSU)

Hum 356. **The Art of the Film.** 2 hours. (PSC)

A general study of the principles underlying the language of film. A discussion of the processes of filmmaking and the creative problems of film-makers; the camera as an expressive instrument; editing; the dramaturgy of sound; the use of actors and music. Selected motion pictures are screened and analyzed. Prerequisite: upper division standing or consent of instructor.

Hum 357. **Film and Society.** 2 hours. (PSC)

The various effects of film on society, and conversely, film as the product, reflecting certain aspects of society; film and behavior; the phenomenon of Hollywood; film and mass culture; film as projection of national character; the film in education; the children's film; censorship; documentary film; screening of representative films. Prerequisite: upper division standing or consent of instructor.

Hum 511, 512. **Contemporary Developments in the Humanities.** 3 hours. (OCE)

Emphasis upon the search for values in the modern world as reflected in the forces shaping contemporary philosophies and trends in contemporary literature. Students may register for one number only.

Journalism

J 341. **Principles of Advertising.** 3 hours. (UO)

Advertising as a factor in the distributive process; the advertising agency; the "campaign"; the function of research and testing; the selection of media: newspaper, magazine, broadcasting, outdoor advertising, direct mail.

J 407. **Seminar: Communications for Teachers—Survey of Journalism.** (G) Hours to be arranged. (UO)

J 407. **Seminar: Industrial Editing.** (G) Hours to be arranged. (UO)

J 444. **Advertising Problems.** (G) 3 hours. (UO)

The student is given an opportunity to cultivate his judgment through consideration of actual marketing and merchandising problems, in the solution of which advertising may be a factor. Prerequisite: J 341.

J 455. **Supervision of School Publications.** (G) 3 hours. (UO)

The teacher's role in guiding student publications in secondary schools.

J 459. **Publicity and Public Relations.** (G) 3 hours. (UO)

Basic techniques and methods in publicity programs for business, professional, and social organizations and interest groups; relationship of publicity to the broader concepts of public relations.

Foreign Languages

French

RL 50, 51, 52. **First-Year French.** 3 hours each. (OSU)

Pronunciation, grammar, reading, and conversation.

RL 50, 51, 52. **First-Year French.** 4 hours each. (PSC)

An introduction to French, stressing hearing, speaking, reading, and writing. Exercises in elementary composition and grammar.

RL 50, 51, 52. **First-Year French.** 4 hours each. (UO)

An introduction to French, stressing reading and speaking. Exercises in elementary composition and grammar.

RL 101, 102, 103. **Second-Year French.** 4 hours each. (PSC)

RL 311, 312, 313. **Survey of French Literature.** 3 hours each. (PSC)

French literature from the Middle Ages to the present; readings from representative authors. Prerequisite: two years of college French or equivalent.

Germanic Languages

GL 50, 51, 52. **First-Year German.** 3 hours each. (OSU)

Elements of pronunciation, grammar, reading, and conversation.

GL 50, 51, 52. **First-Year German.** 4 hours each. (PSC)

Provides a thorough grammatical foundation of German, stressing hearing, speaking, reading and writing.

GL 50, 51, 52. **First-Year German.** 4 hours each. (UO)

Designed to provide a thorough grammatical foundation and an elementary reading knowledge of German, as well as an understanding of the spoken language.

GL 101, 102, 103. **Second-Year German.** 4 hours each. (PSC)

GL 334, 335, 336. **Intermediate German Conversation and Composition.** 2 hours each. (PSC)

Extensive practice in speaking and writing German. Prerequisite: 2 years of college German or equivalent.

Italian

RL 70,71, 72. **First-Year Italian.** 4 hours each. (PSC)

Introductory course. Hearing, speaking, reading, and writing for the beginner.

RL 371, 372, 373. **Third-Year Italian.** 3 hours each. (UO)

Survey of Italian literature; study of representative works of principal authors; reports.

Slavic

SL 50, 51, 52. **First-Year Russian.** 3 hours each. (OSU)

Elements of pronunciation, grammar, reading, and conversation.

SL 50, 51, 52. **First-Year Russian.** 4 hours each. (PSC)

Elements of the Russian language, stressing hearing, speaking, reading and writing.

SL 50a, 50b, 51a. **First-Year Russian.** 2 hours each. (UO)

The elements of the Russian language, elementary reading, composition, and conversation.

SL 101, 102, 103. **Second-Year Russian.** 4 hours each. (PSC)

SL 314, 315, 316. **Russian Composition and Conversation.** 2 hours each. (PSC)

Exercises in pronunciation, comprehension, and composition; ample opportunity for conversation. Prerequisite: two years of college Russian or equivalent.

Spanish

RL 60, 61, 62. **First-Year Spanish.** 3 hours each. (EOC)

Elements of pronunciation, grammar; reading and conversation. Listening to tapes and records required as lab work.

RL 60, 61, 62. **First-Year Spanish.** 3 hours each. (OSU)

Pronunciation, grammar, reading, and conversation.

RL 60, 61, 62. **First-Year Spanish.** 4 hours each. (PSC)

An introduction to Spanish, stressing hearing, speaking, reading, and writing.

RL 60, 61, 62. **First-Year Spanish.** 4 hours each. (UO)

An introduction to Spanish, stressing speaking and reading; exercises in elementary composition.

RL 107, 108, 109. **Second-Year Spanish.** 4 hours each. (PSC)

RL 341, 342, 343. **Survey of Spanish Literature.** 3 hours each. (PSC)

Spanish literature from the Middle Ages to the present; readings from representative texts. Prerequisite: two years of college Spanish or equivalent.

Ural-Altaik Languages

UAL 4, 5, 6. **Finnish for Beginners.** (Non-credit) (3 hours) (GED)

Designed to provide students a basic acquaintance with oral and written Finnish. Class sessions will be devoted to practice in conversation under the guidance of the instructor. Introduction to basic Finnish grammar, reading and writing. Students having adequate background in spoken Finnish may enter the second or third term.

Industrial Education

IEEd 472. **Occupational Analysis.** (G) 3 hours. (OSU)

Analysis of an occupation, trade, or job into its component subdivisions, blocks, operations, and teaching units; occupational analysis in teaching procedure. Prerequisite: Ed 408, and technical background.

Landscape Architecture

LA 279. **Home Ground Planning.** 3 hours. (OSU)

Organization and improvement of rural and urban home grounds.

LA 290. **Applied Landscape Design.** 3 hours. (OSU)

Design of city and suburban residence properties and other related problems. Prerequisite: LA 280.

LA 326. **Plant Materials.** (First term) 3 hours. (OSU)

Trees, shrubs, vines, and perennials and their uses in plant composition.

Law Enforcement

LE 111. **Police and Society.** 2 hours. (PSC)

A study of the purpose, function, and brief history of the agencies dealing with the administration of justice. Survey of requirements for entering police service. Origin and evolution of law enforcement agencies. Discussion of crime; the criminal, traffic, and vice as social and police problems; functions of the courts; prosecuting and defense attorneys; correctional and penal institutions; probation and parole; American and foreign police systems.

LE 112. **Organization and Administration of Law Enforcement Agencies.** 2 hours. (PSC)

Application of the principles of organization and administration to law enforcement agencies at the federal, state and municipal levels.

LE 113. **Elements of Law for Police Officers.** 2 hours. (PSC)

Overview of the salient principles of law which have special application to police work, including criminal law, law of arrests, law of search, seizure, and evidence, automobile law. Discussion of court procedures.

LE 211. **Police Techniques I. (Evidence.)** 2 hours. (PSC)

Study and laboratory work in the collection and preservation of evidence,

* Law enforcement courses are not accepted for transfer within the Oregon State System of Higher Education.

statements and confessions; observation and description; notes and sketches, surveillance and interrogation.

LE 212. Police Techniques II. (Identification.) 2 hours. (PSC)

Identification, including toxicology, photography, handwriting, moulage, scientific lie detecting, and ballistics.

LE 213. Police Techniques III. (Traffic Control and Field Work) 2 hours. (PSC)

Problems of traffic control, traffic laws, radio communications, and field work in police training.

Librarianship

Lib 379. Elementary-School Library. 3 hours. (OSU)

Organization, administration, and function of elementary school library; methods of ordering and processing materials; care and repair of books; library resources in community, state. Not open to freshmen and sophomores. Prerequisite: Lib 388.

Lib 388. Children's Literature. 3 hours. (OSU)

Reading material suitable for elementary grades and criteria used in selecting books for children.

Lib 486. Introduction to Cataloging and Classification. (G) 3 hours. (UO)

Instruction and practice in simplified procedures for the classification and cataloging of books, films, filmstrips, phonorecords, and maps. Procedure for ordering and using Library of Congress and Wilson cards.

Lib 487. Cataloging and Classification. (G) 3 hours. (UO)

More-difficult problems in the cataloging and classification of books and other library materials; brief survey of theories and experiments in cataloging and classification and their implications for the future. Prerequisite: Lib 486 or consent of the instructor.

Lib 490. Children's Literature. (G) 3 hours. (UO)

Survey of children's literature, with emphasis on selection and evaluation of books suitable for public and school libraries; reading guidance in relation to both personal and curricular needs.

Lib 493. Literature of the Humanities. (G) 3 hours. (UO)

The role of the humanities in modern life; survey and evaluation of library resources in the humanistic disciplines.

Lib 496. The Library in the Modern Community. (G) 3 hours. (UO)

The development of American libraries; their present-day functions as educational and cultural institutions; legal structure; interlibrary cooperation; relations with the mass media; librarianship as a profession.

Lib 507. Seminar: Children's Literature. 3 hours. (UO)

Prerequisite: Lib 490 or equivalent. Consent of instructor.

Mathematics

Mth 10. Elements of Algebra. (non-credit) (3 hours). (DCE)

For students with less than one year of algebra. Open to others on recommendation of the department.

Mth 10. Elementary Algebra. (non-credit). (OSU)

Fundamental operations with polynomials and rational fractions, linear equations, and stated problems. For students with little or no algebra.

Mth 100. Intermediate Algebra. 4 hours. (OSU)

Functions and graphs, linear equations in two unknowns, quadratic equations,

negative and fractional exponents, radicals, progressions, binomial theorem, logarithmic computation. Prerequisite: Mth 10 or equivalent.

Mth 100. **Intermediate Algebra.** 4 hours. (PSC)

Prerequisite: one year of high-school algebra, or Mth 10. No credit is allowed for this course if it is completed after Mth 101 or any other more advanced course in mathematics.

Mth 100. **Intermediate Algebra.** 4 hours. (SOC)

For students entering with not more than one year of high school algebra.

Mth 100. **Intermediate Algebra.** 4 hours. (UO)

Fundamentals of algebra. Intended for students entering with less than two years of high-school algebra; not open for credit for students entering with four years of high-school mathematics including trigonometry.

Mth 101. **College Algebra.** 4 hours. (OSU)

Number systems, mathematical induction, determinants, theory of equations. Prerequisite: Mth 100 or equivalent.

Mth 101. **College Algebra.** 4 hours. (PSC)

Prerequisite: one and one-half years of high-school algebra, or Mth 100.

Mth 101. **College Algebra.** 4 hours. (SOC)

A review of high school algebra with emphasis on the number system, logarithms, progressions, binomial theorem, theory of equations, determinants, permutations, combinations and probability. Prerequisite: Mth 100 or equivalent.

Mth 102. **Trigonometry.** 4 hours. (OSU)

Trigonometric functions for general angles, solution of triangles, addition formulas, trigonometric equations, graphs, complex numbers, and De Moivre's theorem. Prerequisite: Mth 101 or equivalent.

Mth 102. **Trigonometry.** 4 hours. (PSC)

Prerequisite: Mth 101.

Mth 102. **Trigonometry.** 4 hours. (SOC)

A study of the trigonometric functions of general angles, solution of triangles, addition formulas, trigonometric equations, graphs, complex numbers and De Moivre's theorem. Prerequisite: Mth 101 or equivalent.

Mth 103. **Analytic Geometry.** 4 hours. (PSC)

Prerequisite: Mth 102.

Mth 104, 105, 106. **Introductory College Mathematics.** 4 hours each. (UO)

A unified treatment of college algebra, trigonometry, analytic geometry, and elementary calculus. Prerequisite: one and one-half years of high-school algebra or Mth 100.

Mth 111. **Mathematics for Elementary Teachers.** 3 hours. (PSC)

Treatment of historical aspects of mathematics, social uses and relationships, mathematical principles, development of problem-solving ability and proficiency in the fundamental skills of mathematical processes.

Mth 111, 112. **Mathematics for Elementary Teachers.** 3 hours each. (UO)

Basic principles of arithmetic, elementary algebra, and plane geometry; applications to statistics and mathematics of finance. For prospective elementary teachers; not open to other students. 4 recitations.

Mth 111, 112, 113. **Essentials of Mathematics.** 3 hours. (OCE)

Primarily a background course but with emphasis on numbers and measurements. Designed to acquaint students with some of the more basic concepts from the areas of algebra and geometry with some introduction to logarithms, scientific notation, significant figures, and trigonometry.

Mth 207, 208, 209. **Calculus.** 4 hours each. (PSC)

Standard sequence for students of science and engineering. Prerequisite: Mth 103.

- Mth 311. Foundations of Mathematics.** 3 hours. (SOC)
A study of mathematics background information and theory essential for teaching arithmetic in the elementary school. Credit will not apply in Science-Mathematics major programs. Prerequisite: junior standing or consent of instructor.
- Mth 331, 332. Differential Equations.** 3 hours each. (PSC)
Ordinary and partial differential equations. Prerequisite: Mth 203.
- Mth 412, 413, 414. Introduction to Abstract Algebra.** (G) 3 hours each. (UO)
Sets, relations, mappings; introduction to the theory of groups, rings, fields, polynomial rings; linear algebra and matrix theory. Prerequisite: Mth 317 or consent of instructor.
- Mth 414. Foundations of Elementary Mathematics.** (g) 3 hours. (OSU)
Fundamental concepts and logical structure of arithmetic, algebra, and geometry. Prerequisite: 3 hours of upper division mathematics.
- Mth 415. Modern Geometry.** (g) 3 hours. (SOC)
Modern developments of geometry based on plane geometry of Euclid, dealing with the geometry of triangles and circles. Prerequisite: one year of college mathematics or consent of instructor.
- Mth 421. Vector Analysis.** (G) 3 hours. (OSU)
Calculus of functions of two or more variables, approached by way of vector notation. Prerequisite: Mth 322.
- Mth 425, 426, 427. Elements of Statistical Methods.** (g) 3 hours each. (UO)
A basic sequence in statistical analysis; not intended for mathematics majors. Presentation of data; sampling theory; tests of significance; analysis of variance and covariance; regression and correlation; sequential analysis; design of experiments; distribution-free techniques. Prerequisite: one year of high-school algebra; junior standing.
- Mth 431, 432, 433. Advanced Calculus.** (G) 3 hours each. (UO)
A rigorous treatment of topics introduced in elementary calculus or more-advanced topics basic to the study of real and complex variables. Prerequisite: calculus.
- Mth 591. Mathematics for High School Teachers: Arithmetic.** 3 hours. (OSU)
- Mth 592. Mathematics for High School Teachers: Algebra.** 3 hours. (OSU)
- Mth 593. Mathematics for High School Teachers: Geometry.** 3 hours. (OSU)

Music

- *Mus 111, 112, 113. Music Theory I.** 3-4 hours each. (PSC)
A course which provides a thorough groundwork in the elements of music science—melodic, harmonic, and rhythmic—taught through the analysis of the styles of Bach, Haydn, Mozart, Beethoven, and other eighteenth- and nineteenth-century composers.
- †Mus 190. Applied Music.** 1-2 hours. (PSC)
Understanding and appreciation of music by means of listening experiences. Study of different styles and periods in the history of music.
- *Mus 190. Applied Music.** 1-2 hours. (PSC)
Freshman year. Individual instruction in organ, piano, violin, cello, harp, voice, orchestral and band instruments. Attendance at class sessions and recitals required. Prerequisite: qualifying examination.

* Music majors and music education majors must take the 4-hour course; non-majors may register for either 3 or 4 hours.

† Special fee.

- Mus 196. **Orchestra.** 1 hour. (PSC)
Six hours maximum credit.
- *Mus 290. **Applied Music.** 1-2 hours. (PSC)
Sophomore year. Continuation of Mus 190, which is prerequisite.
- Mus 323. **Choral Conducting.** 2 hours. (PSC)
The principles of conducting and training choral organizations.
- Mus 360, 361, 362. **History of Music.** 3 hours each. (UO)
A study of the development of music from primitive times to the present day.
- Mus 381. **Music Fundamentals.** 3 hours. (OCE)
A musical background for the classroom teacher; singing song material; acquiring good vocal habits; reading music; experiencing simple problems in rhythm; listening to music; analyzing its forms; learning keys, scales, intervals, primary chords, and their application to the piano keyboard.
- Mus 381. **Music Fundamentals.** 3 hours. (SOC)
Elementary rhythmic development and a study of notation, scales and primary triads, enabling the student to do sight reading of simple unison songs.
- Mus 381, 382. **Music Fundamentals.** 3 hours each. (PSC)
Basic musicianship for the elementary teacher, developed through experiences relevant to the classroom. Required of majors in elementary education. Prerequisite to Mus 382: Mus 381 or consent of instructor.
- Mus 382. **Music Fundamentals.** 3 hours. (OCE)
Acquiring more skill in reading song material; more advanced rhythmic patterns; major and minor modes; two-, three-, and four-part music; chording; ear training; dictation. Prerequisite: Mus 381.
- Mus 382. **Music Fundamentals.** 3 hours. (SOC)
Acquiring more skill in reading song material; more advanced rhythmic patterns; major and minor modes; two-, three-, and four-part music; chording; ear training; dictation. Prerequisite: Mus 381.
- Mus 383. **Music Education. (Elementary)** 3 hours. (EOC)
The close relationship between music education and the other areas in education; planning a music environment; directing the experiences of children in music; studying principles and procedures in teaching music skills. Prerequisite: Mus 381 and 382, or equivalent.
- Mus 383. **Music Education (Elementary).** 3 hours. (OCE)
The close relationship between music education and other areas in education; planning a music environment; directing the experiences of children in music. Prerequisite: Mus 381, 382.
- Mus 383. **Music Fundamentals (Teacher Education).** 3 hours. (PSC)
Experience in teaching the various music activities found in the elementary classroom. Required of majors in elementary education. Prerequisite: Admission to a program of teacher education and Ed 310, 312; also Mus 381, 382, or consent of instructor.
- Mus 383. **Music Education (Elementary).** 3 hours. (SOC)
Principles, procedures, materials and experience in teaching in the various areas of musical activities of the grades. Prerequisites: Mus 381, 382, or equivalent.
- *Mus 390. **Applied Music.** 1-2 hours. (PSC)
Junior year. Individual instruction in organ, piano, violin, cello, harp, voice, orchestral and band instruments. One or two lessons a week. Attendance at class sessions and recitals required. Prerequisite: Mus 290 or equivalent and qualifying examination for upper-division standing.

* Special fee.

Mus 396. **Orchestra.** 1 hour. (PSC)

Six hours maximum credit.

Mus 407. **Seminar: English Diction for Singing.** 3 hours. (PSC)

The study and singing of English texts with emphasis on clarity, projection and pronunciation. For singers (or for "voice students") and choral directors. Attention will be given to the techniques appropriate to the various kinds of texts in vocal music.

Mus 490. **Applied Music.** 1-3 hours. (PSC)

Senior year. Continuation of Mus 390, which is prerequisite.

Music Education

MuE 407. **Seminar: Music Education in the Junior High School.** Hours to be arranged. (UO)

MuE 407. **Seminar: Music Education in the Senior High School.** (G) Hours to be arranged. (UO)

MuE 533. **Music in the Elementary School.** 3 hours. (UO)

Theory, supervision, curriculum, materials, and procedures of vocal music teaching in the elementary school. Research in problems involving music and related areas of instruction.

MuE 535. **Music in the Senior High School.** 3 hours. (UO)

Curricula, organization, methods, and materials in all aspects of senior high-school music, both vocal and instrumental.

Natural Resources

NR 511. **Conservation in the United States.** 3 hours. (OSU)

Principles and needs of conservation. Prerequisite: graduate standing.

Oceanography

Oc 331. **Introduction to Oceanography.** 3 hours winter. (OSU)

Elective nontechnical course designed to give student broad general background. Emphasis on relationship between oceanography and other fields. Prerequisite: junior standing.

Oc 432. **Physical Oceanography.** (G) 3 hours. (OSU)

Physical processes in ocean and estuaries; some field work. Prerequisite: senior or graduate standing, one year of mathematics, one year of physics.

Oc 433. **Currents and Water Masses.** (G) 3 hours. (OSU)

Factors contributing to origin and preservation of water masses and currents of oceans; distribution of variables in the sea. Prerequisite: Oc 432.

Oc 434. **Estuarine and Shoreline Processes.** (G) 3 hours. (OSU)

Estuarine and nearshore processes. Waves, surf, and beach effects, tides and tidal currents; types and mechanism of estuarine circulation. Prerequisite: Oc 432.

Philosophy

Phl 201. **Problems of Philosophy.** 3 hours. (PSC)

An introduction to some of the persistent problems and great systems of philosophy through reading and discussion of selected source materials.

Phl 201. **Problems of Philosophy.** 3 hours. (UO)

An introduction to the study of some of the persistent problems of philosophy.

Phl 202. Elementary Ethics. 3 hours. (PSC)

The course develops the idea of man as a moral agent and considers critically various interpretations of the ideals and standards of moral conduct.

Phl 202. Elementary Ethics. 3 hours. (UO)

An introduction to the philosophical study of morality, e.g., right and wrong, free will and determinism, morals and society, etc.

Phl 203. Elementary Logic. 3 hours. (PSC)

An introductory study of the standard forms of reasoning. Exercise in recognizing, analyzing, criticizing, and constructing the main types of argument and proof.

Phl 203. Elementary Logic. 3 hours. (UO)

An introduction to the study of reasoning. How to recognize, analyze, criticize, and construct the main types of argument and proof.

Phl 201, 202, 203. Introduction to Philosophy. 3 hours. (OSU)

Unified year sequence but work of three terms may be taken in any order. Phl 201: nature of philosophy and its basic problems; Phl 202: philosophy of ethics; Phl 203: social philosophy.

Phl 301, 302, 303. History of Philosophy. 3 hours each. (PSC)

A study of western philosophy from the pre-Socratic Greek philosophers to Hegel. Prerequisite: no previous work in philosophy required, but Phl 301 is prerequisite for 302, and 302 is prerequisite for 303.

Phl 301, 302, 303. History of Philosophy. 3 hours each. (UO)

Survey of western philosophy from the Greeks to the twentieth century.

Phl 460. Philosophy of Religion. 3 hours. (OSU)

Basic convictions underlying religious thinking; values, God, problems of good and evil, immortality, human nature, religious experience.

Political Science

PS 201, 202, 203. American Governments. 3 hours each. (OSU)

First term: principles of American constitutional system, political process, and the organization of national government. *Second term:* powers and functions of national government. PS 201 may be taken separately but is prerequisite for PS 202. *Third term:* practical operation and contemporary reforms in government at state and local levels.

PS 201, 202, 203. American Governments. 3 hours each. (PSC)

The American political system in theory and practice. The Constitution and constitutionalism; problems of federalism; political behavior, parties, pressure groups, and elections; Congress and the legislative process; the Presidency and modern bureaucracy; the Supreme Court and judicial policymaking. Major problems of public policy: government, the economy, and the general welfare; national security and foreign policy; guarantees of civil liberties, due process of law, and equal rights.

PS 201, 202, 203. American Government. 3 hours each. (UO)

An introduction to basic concepts involved in the study of the structures and processes of politics in the United States, with emphasis on the national government in the first two terms and on state and local governments in the third term.

PS 320, 321. World Politics. 3 hours each. (PSC)

Basic principles of the modern state system; analysis of factors making for conflict and cooperation. Emphasis, during second term, on the foreign policies of the leading states, exclusive of the United States.

PS 320, 321. **World Politics.** 3 hours each. (UO)

Systematic analysis of the nature of international society, and of the motivating and conditioning factors which explain interaction among states and other international entities.

PS 322. **American Diplomacy.** 3 hours. (PSC)

Contemporary foreign relations of the United States; objectives, world and domestic factors affecting American foreign policy, governmental institutions concerned with development and execution of foreign policy, major issues and problems.

PS 322. **American Foreign Policy.** 3 hours. (UO)

Contemporary foreign relations of the United States; objectives, world and domestic factors affecting American foreign policy, governmental institutions concerned with development and execution of foreign policy, major issues and problems.

PS 407. **Seminar: Problems of American Politics.** 3 hours. (PSC)

PS 407. **Seminar: The Church and the State.** 3 hours. (PSC)

PS 407. **Seminar: People, Power, Politics.** 3 hours. (PSC)

PS 430, 431, 432. **Political Theory: The Western Tradition.** 3 hours each. (PSC)

Enduring problems of government as discussed by leading political thinkers from Plato to the present; the nature and proper functions of the state; the control of power; freedom and authority; the regulation of property; democratic and authoritarian traditions; fundamental concepts of political theory; analytic, normative, and empirical.

Psychology

Psy 111. **Personality and Development.** 3 hours. (OSU)

Self-understanding and development; emphasis upon habits, attitudes, emotional problems, and efficient learning techniques. Open only to freshmen and sophomores.

Psy 201, 202. **General Psychology.** 3 hours each. (OSU)

Study of behavior and experience; facts and principles of motivation, learning, perceiving, and individual difference. Two-term sequence; with Psy 205 forms year sequence. Prerequisite: sophomore standing.

Psy 201, 202. **General Psychology.** 3 hours each. (UO)

Introductory study of behavior and conscious processes. Survey of experimental studies of motivation, learning, thinking, perceiving, and individual differences. Prerequisite for all sections beginning in the fall term: sophomore standing.

Psy 201, 202, 203. **General Psychology.** 3 hours each. (SOC)

The science of psychology, the nature of man, processes of learning, and common modes of resulting individual and social behavior. Special attention is given to the evolving social adjustments of the individual, development of an objective attitude toward himself and others, emotional conditioning, and the mechanisms of adjustment necessitated by society.

Psy 201, 202, 203. **General Psychology.** 3 hours each. (PSC)

Basic principles and theories of behavior. Discussion of individual differences, intelligence, aptitude, methods of psychological measurement and testing, drives and motives, emotions and reactions to stress, perception, learning, thinking, reasoning, personality; the response mechanism, communication processes, attitudes and social processes, frontiers of psychology. Sophomore standing is recommended.

- Psy 204. Psychology of Adjustment.** 3 hours. (UO)
Introduction to the psychology of personality; basic principles of the nature, development, and changing of personality.
- Psy 205. Applied Psychology.** 3 hours. (OSU)
Applications of psychological facts and principles to such fields as education, industry, business, and other professions. Prerequisite: Psy 202.
- Psy 311. Human Development.** 3 hours. (OCE)
Developmental psychology with particular reference to childhood and adolescence. Introductory material on pre-natal and infant development. Developmental changes in adulthood and old age. Prerequisite: Psy 201, 202.
- Psy 311. Human Development.** 3 hours. (OSU)
Psychological problems in child's development from 5 to 14; development of muscular activities; perception; language; motivational and emotional patterns; intelligence; social behavior; measurement of child behavior. Prerequisite: Psy 202.
- Psy 311. Human Development.** 3 hours. (PSC)
Development of the child as an individual and as a member of social groups. Included is a comparative study of different home and school environments as they influence the psychological growth of the child. Field projects supplement the class work. Primarily for majors in education. Prerequisite: Psy 201, 202.
- Psy 311. Human Development.** 3 hours. (SOC)
Consideration of the child as an individual and as a member of social groups. Included is a study of the kinds of home and school environment essential to the best intellectual, physical and emotional development of the child. Prerequisite: Psy 201, 202.
- Psy 318. Applied Psychology.** 3 hours. (PSC)
Application of psychological facts and principles to human problems in business, industry, law enforcement, crime detection, advertising, and related fields. Prerequisites: Psy 201, 202, 203.
- Psy 335. Counseling and Testing.** 3 hours. (PSC)
A survey of counseling and interviewing techniques, use of psychological tests in support of counseling procedures. Prerequisites: Psy 201, 202, 203.
- Psy 407. Seminar: Adolescent Behavior.** 3 hours. (UO)
The course will focus on current behavioral science literature regarding developmental processes and problems peculiar to adolescent children. Literature pertinent to this area will be assigned, including materials on bio-social conditions necessary for normal development and bio-social conditions conducive of deviant personality and behavioral development. Trends in the assessment of normal and deviant adolescent behavior will be reviewed, also current practices and trends in treatment and/or correction will be analyzed. Particular attention will be given to research needs, approaches and problems as applied to adolescent behavior.
- Psy 407. Seminar: Advanced Techniques of Counseling Alcoholics for Clergy.** 2 hours. (UO)
Limited to clergy with scholarships. Contact Mr. Robert J. Gridley.
- Psy 407. Seminar: Understanding and Counseling the Alcoholic.** 2 hours. (UO)
Limited to clergy with scholarships. Contact Mr. Robert J. Gridley.
- Psy 411. Mental Hygiene.** (g) 3 hours. (OSU)
Principles and application of mental hygiene to problems of individual in home, school, and occupational situations. Prerequisite: Psy 314 or equivalent.
- Psy 412. Psychology of Adolescence.** (G) 3 hours. (EOC)
Processes through which the normal human being reaches maturity, acquires

effective use of his bodily equipment and learning capacity, and makes satisfactory personal and social adjustments. The capacities of the child in the period of preadolescence are reviewed briefly; emphasis is placed on the physical, mental, and moral changes of adolescence. Prerequisite: Psy 201, 202.

Psy 412. Psychology of Adolescence. (g) 3 hours. (SOC)

Processes through which the normal human being reaches maturity, acquires effective use of his bodily equipment and learning capacity, and makes satisfactory personal and social adjustments. The capacities of the child to the period of preadolescence are reviewed briefly; emphasis is placed on the physical, mental and moral changes of adolescence. Prerequisite: Psy 201, 202, 311.

Psy 421, 422. Principles and Methods of Psychological Assessment. (g) 3 hours each. (UO)

Application of psychological methods to the study of the individual; theoretical and statistical rationale of test construction and interpretation; problems involved in the prediction of human behavior; survey of psychological assessment techniques. Prerequisite: Mth 425 or equivalent.

Psy 431. Industrial Psychology. (g) 3 hours. (OSU)

Study of human relationships in industry, human engineering, personnel placement and selection. Prerequisite: Psy 205 or equivalent.

Psy 436. Character and Personality. (g) 3 hours. (UO)

Major theories of personality development and function. Prerequisite: Psy 204 or equivalent.

Psy 450. Abnormal Psychology. (g) 3 hours. (UO)

Various forms of unusual behavior, including anxiety states, hysteria, hypnotic phenomena, and psychoses. Normal motives and adjustments mechanisms considered in their exaggerations in the so-called neurotic person.

Psy 460. Developmental Psychology I: Infancy and Childhood. (g) 3 hours. (UO)

Psy 461. Developmental Psychology II: Adolescence and Maturity. (g) 3 hours. (UO)

Development of behavior and psychological activity through the prenatal period, infancy, childhood, adolescence, maturity, and old age. Change of intelligence, motor capacity, emotional response, language, and social behavior. Emphasis on social influences on development.

Psy 472, 473, 474. Individual Differences. (g) 3 hours each. (OSU)

Theories of personality; experimental evidence on individual differences; evaluation of differences; guiding and directing normal development. Prerequisite: Psy 371 or equivalent. Prerequisite for Psy 473 or 474: Psy 472.

Psy 480. Psychological Tests and Testing. (g) (Third term) 3 hours. (OSU)

Theory and practice of psychological testing; supervised practice in administration, scoring, and interpretation of individual mental tests; analysis of group tests of intelligence, personality, interests, etc. Prerequisite: Psy 371 or equivalent. Prerequisite for Psy 479 or Psy 480: Psy 478.

Psy 507. Seminar: Advanced Techniques of Counseling Alcoholics for Clergy. 2 hours. (UO)

Limited to clergy with scholarships. Contact Mr. Robert J. Gridley.

Psy 507. Seminar: Personal Adjustment and Counseling. 3 hours. (UO)

Psy 507. Seminar: Study of Delinquency. 3 hours. (UO)

Orientation in the mental mechanism of delinquency in its latent and manifest forms, with a study of its relation to the neuroses and psychoses, and of its development, contagion and pervasiveness.

Psy 507. Seminar: Understanding and Counseling the Alcoholic. 2 hours. (UO)

Limited to clergy with scholarships. Contact Mr. Robert J. Gridley.

- Psy 519. **Research Studies in Child Development.** 3 hours. (OCE)
Survey and interpretation of current research studies and experimental programs concerned with the physical, emotional, intellectual and social development of children.
- Psy 520. **Psychology of Learning.** 3 hours. (OCE)
Introduction to the major theories of learning current among psychologists doing research in the field. Experimentation and research underlying these theories applied to modern educational practices. Includes learning theory and practices at all age levels through adulthood.
- Psy 524. **Individual Intelligence Testing.** 4 hours. (UO)
Supervised practice in the administration, scoring and interpretation of the Wechsler Intelligent Scale for Children and the Wechsler Adult Intelligence Scale. Prerequisite: Ed 424 or Psy 421.
- Psy 525. **Individual Intelligence Testing.** 2 hours. (UO)
Supervised practice in the administration, scoring, and interpretation of the Stanford-Binet Intelligence Scale. Prerequisite: Ed 424 or Psy 421.
- Psy 535. **Advanced Social Psychology.** 3 hours. (UO)
Social behavior in relation to current psychological theory and research.

Religion

- R 407. **Seminar: Religion in Contemporary Society.** Hours to be arranged. (OSU)
- R 463. **Psychology of Religion.** (g) 3 hours. (OSU)
Bearing of psychology on religious thought and action, both past and present.

Science

Applied Science

- ASc 111, 112, 113. **Introduction to Applied Science.** 2 hours each. (PSC)
Nature, scope and meaning of applied science; its importance in modern society and national life. Basic preparation in the rudiments and working methods of applied science.
- ASc 115, 116, 117. **Graphics.** 3 hours each. (PSC)
Fundamental principles and the rules of composition of the graphic language of engineering.
- ASc 211, 212. **Statics and Stress Analysis of Solids.** 3 hours each. (PSC)
Principals and applications of statics to structures and machines. Stress analysis for deformable bodies. Prerequisite: Mth 200.
- ASc 213. **Properties of Materials.** 3 hours. (PSC)
Basic properties, behavior, and survey of industrial applications of materials. Prerequisite: ASc 212.
- ASc 251, 252, 253. **Electrical Fundamentals.** 4 hours each. (PSC)
Fundamentals of magnetic and electric fields and associated circuits, and electric circuit theory. Prerequisite: Mth 103; GE 103, or instructor's approval.
- ASc 311, 312, 313. **Dynamics of Matter.** 3 hours each. (PSC)
Newtonian mechanics of particles, rigid bodies, and fluids. Emphasis on fundamental principles and general methods, with applications to modern science and technology; kinematics; kinetics; D'Alembert's principles; conservation laws of mechanics; generalized methods of dynamics (Lagrangian and Hamiltonian formulations); relation to quantum mechanics; dynamics of steady, boundary layer, and turbulent fluid flow. Prerequisite: ME 217 or ASc 211, Mth 203, Physics 203 or 209, and Mth 333 taken concurrently with ASc 311.

Biology

Bi 0334. **Plant Identification.** (non-credit) (UO)

A basic course in classification and identification of local plants and wild flowers, common scientific terms used in describing wild flowers, use of various plant manuals or floras in identification of plants.

Bi 101, 102, 103. **General Biology.** 3 hours each. (OCE)

The principle concepts of biology, including consideration of the variety of plant and animal life and the mechanisms for maintenance and replacement of the individual and of the population. Two lectures, one two-hour laboratory period.

Bi 101, 102, 103. **General Biology.** 3 hours each. (SOC)

A broad background in the field of biology. The common plants and animals; their life processes and ecological relationships; place of man in relation to other forms of life, with particular reference to fundamental principles of genetics and heredity. Two lectures, one 2-hour laboratory period.

Bi 101, 102, 103. **General Biology.** 4 hours each. (UO)

Principles of life science, illustrated by studies of selected organisms. 3 lectures; 1 three-hour laboratory period.

Bi 201, 202. **General Botany.** 3 hours each. (PSC)

An introduction to the morphology, physiology, and anatomy of flowering plants; brief survey of plant kingdom; introductory taxonomy.

Bi 204, 205, 206. **General Zoology.** 4 hours each. (PSC)

For biology and zoology majors and premedical, pre dental, pre nursing, pre pharmacy, preveterinarian, physical education, psychology, fish and game management, and fisheries students.

Bi 334. **Systematic Botany.** 4 hours. (PSC)

Identification and classification of the vascular plants represented in the local flora.

Bi 391, 392. **Human Anatomy.** 3 hours each. (UO)

Gross anatomy; the skeletal and muscular structure; the circulatory, respiratory, digestive, and neural systems and their functioning in physical activities. Prerequisite: junior standing.

Bi 422. **Introduction to Genetics.** (g) 3 hours. (UO)

An introduction to the fundamental principles of genetics.

Chemistry

Ch 104, 105, 106. **General Chemistry.** 4 hours each. (PSC)

For students majoring in medical technology, pre dental, nursing, and liberal arts.

Ch 104, 105, 106. **General Chemistry.** 3 hours each. (UO)

An introduction to the field of chemistry, providing an understanding of the structures of atoms, molecules, and ions and their interactions, and a foundation for further study of chemistry. 3 lectures. Prerequisite: Mth 100 or equivalent.

Ch 430, 431, 432. **Organic Chemistry.** (g) 4 hours each. (OSU)

Professional course designed to meet the requirement of majors in chemistry and chemical engineering. Prerequisite: two years of college chemistry.

Ch 448, 449. **Colloidal Chemistry.** (G) 3 hours each. (OSU)

Classical and modern surface theory, absorption, membrane and bulk diffusion, nucleation and Donnan potential, lyophilic and lyophobic colloids, including proteins and clays. Prerequisite: three years of college chemistry.

Ch 482, 483. **Thermodynamics.** (G) 3 hours each. (OSU)

Chemical principles from standpoint of thermodynamics. Prerequisite: Ch 442.

Ch 484. **Electrochemistry.** (G) 3 hours. (OSU)

Theoretical and applied electrochemistry, including electrochemistry of solutions. With Ch 482, 483 constitutes a year sequence. Prerequisite: Ch 442.

General Science

GS 101, 102, 103. **General Biology.** 4 hours each. (OSU)

Principles of biology as they apply to both plants and animals.

GS 101, 102, 103. **General Biology.** 3 hours each. (PSC)

The fundamental principles of life as they apply to both plants and animals. For general students and those majoring in fields other than biology. If taken after courses with similar materials have been completed, credit will be restricted.

GS 104, 105, 106. **Physical Science.** 4 hours each. (OSU)

Principles of physics, chemistry, astronomy, and geology; development and application of the scientific method. For majors in fields other than the physical sciences.

GS 104, 105, 106. **Physical Science.** 3 hours each. (PSC)

Fundamental principles of physics, chemistry, astronomy, and geology; development and application of the scientific method. For students majoring in fields other than the physical sciences who wish a broad view of the principles of several physical sciences. No credit will be allowed in GS 104 after a course in Geology has been completed, nor in GS 105 after a course in Chemistry, nor in GS 106 after a course in Physics.

GS 104, 105, 106. **Physical-Science Survey.** 4 hours each. (UO)

General introduction to the physical sciences; principles of physics and chemistry, geologic processes, and man's relation to them. Special emphasis on scientific method.

GS 311, 312, 313. **Natural History of Oregon.** 3 hours each. (PSC)

The earth and life history of Oregon; kinds and distribution of contemporary plant and animal life; man and his relation to the environment; conservation of natural resources. Prerequisite: upper-division standing and a year sequence in general biology.

GS 508. **Workshop: In-Service BSCS Biology.** 2 hours. (OSU)

A three term sequence especially designed for high school teachers of biology and based on the Biological Sciences Curriculum Study. Though the "green" version of the BSCS will be emphasized, teachers planning to work with either the "blue" or "yellow" versions would benefit. Enrollment limited to 20 teachers.

GS 508. **Workshop: In-Service CBA Chemistry.** 2 hours. (OSU)

A three term sequence especially designed for high school teachers of chemistry utilizing the newest approach in the teaching of high school chemistry. Enrollment limited to 20 teachers.

GS 508. **Workshop: In-Service Chemical Education Materials Study.** 2 hours (OSU)

Geology

G 200. **Physical Geology.** 3 hours. (OSU)

Elective short course on earth materials, processes, and history.

G 201, 202, 203. **Geology.** 3 hours each. (OSU)

Earth materials, processes, and structures; history of earth and life.

G 201, 202, 203. **Geology.** 3 hours each. (PSC)

Processes of nature by which earth's surface has been built up, deformed and torn down; natural history and occurrence of common rocks and useful minerals; outline of history of earth and life.

- G 204, 205, 206. **Geology Laboratory.** 1 hour each. (PSC)
Laboratory and field work to accompany G 201, 202, 203 for all students desiring practical knowledge of geology.
- Geol 291. **Rocks and Minerals.** 3 hours. (UO)
Common minerals and rocks; origin, lore, and properties of precious, semi-precious, and ornamental stones; economically important rocks and minerals. 2 lectures; 1 three-hour laboratory period.
- Geol 301, 302, 303. **Geologic History of Life.** 3 hours each. (UO)
Geol 301: origins and early history of life, as revealed by the fossil remains of animals and plants; *Geol 302:* geologic history of vertebrates; *Geol 303:* geologic history of the primates. Not intended for majors.
- G 315, 316, 317. **Mineralogy and Rock Study.** 3 hours each. (OSU)
Prerequisite: one year of physical science.
- G 350. **Rocks and Minerals.** 3 hours. (OSU)
Prerequisite: upper division standing.
- G 350. **Rocks and Minerals.** 3 hours. (PSC)
Opportunity to become acquainted with rocks and minerals without prerequisites or more technical courses. Especially useful to students expecting to teach general science or elementary grades. Prerequisites: upper division standing. Credit not allowed if taken with or after G 312, 313, 314.
- G 351. **Elements of Geology.** 3 hours. (PSC)
Principles of geology, processes which shape the surface of the earth, historical development of the earth. Designed as an introduction to geology for general science teacher and elementary teacher. Prerequisite: upper division standing. Credit not allowed if taken with or after G 201, 202.
- G 352. **Geology of Oregon.** 3 hours. (OSU)
Origin and geologic history of landscape features of Oregon; for students without prior geologic background.
- G 352. **Geology of Oregon.** 3 hours. (PSC)
Origin and geologic history of landscape features in Oregon. Prerequisite: upper division standing.
- Geol 352. **Geology of Oregon.** 3 hours. (UO)
Lectures, assigned reading, and field trips, to acquaint the student with some of the salient features of the geology of the state.

Physics

- Ph 201, 202, 203. **General Physics.** 5 hours each. (PSC)
Standard college physics. Prerequisite: Mth 102, or consent of instructor.
- Ph 491, 492, 493. **Meteorology.** (G) 3 hours each. (OSU)
Theories of atmospheric processes; structure of the atmosphere; theory of atmospheric measurements. Prerequisite: Ph 203 or 209; Ph 390 or 393; Mth 203.
- Ph 520. **Astronomy.** 3 hours. (OSU)
The solar system; star types and groupings; astronomical instruments. Prerequisite: two years of physical science including one year of college physics; graduate standing.

Science

- Sc 201, 202, 203. **Foundations of Physical Science.** 3 hours each. (EOC) (SOC)
A general introductory course in the field of the physical sciences embracing cosmic relations, principles of physics and chemistry, geologic processes, and man's reaction to them. Special attention is given to the development and application of the scientific method.

Sc 511. **Contemporary Developments in the Sciences and Mathematics.** 3 hours. (OCE)

Review of recent literature on some selected areas in the field of the natural sciences and mathematics. Includes a brief examination of the aims, purposes, and organization of the field and an evaluation of research activities and the scientific manpower problem. Selected readings.

Science Education

SEd 441, 442. **Health Education.** 3 hours each. (OSU)

Philosophy and principles of health education, organization and administration, and coordination of school health activities with various resources. First term, major emphasis is placed on health services and healthful school living; second term, on the elementary school health instruction program. Prerequisite: one year of upper division biological science and SEd 321 and 322, or equivalent.

SEd 481. **Alcohol Studies in School Curriculum.** (G) 3 hours. (OSU)

Scientific information about alcohol; physiological, psychological, sociological, and legal aspects of alcoholism. Prerequisite: 24 hours upper division education or consent of instructor.

SEd 507. **Physical Growth and Development.** 3 hours. (OSU)

Physiological and physical growth and development from birth through adolescence with particular reference to the special interests of the public school teaching staff.

Science Mathematics

ScMth 407-507. **Seminar: American Institute of Biological Science Program.** 3 hours. (EOC)

Social Science

SSc 441, 442, 443. **International Politics and National Power.** (g) 3 hours each. (OSU)

SSc 441: foreign relations and basic policy affecting power position of United States. *SSc 442*: relative power position of states with reference to military, economic, social, geographic, and psychological factors and the stability and effectiveness of governments. *SSc 443*: national power and international organization, United Nations and national power. Prerequisites: PS 201, 417. Students who have not had prerequisite must have consent of instructor.

SSc 492. **Ideologies of the Twentieth Century.** (g) 3 hours. (OCE)

Capitalism, Communism, Socialism, and Fascism, considered as politico-economic systems. Totalitarian methods contrasted with democratic methods.

SSc 511, 512. **Contemporary Developments in the Social Sciences.** 3 hours each. (OCE)

A study of contemporary literature in the various social science areas. Students may register for one number only.

SSc 513. **Social Problems in American Democracy.** 3 hours. (OCE)

A selected list of problems in the United States such as conservation problems, the nation's health, crime, etc. Designed to give factual and interpretive background for secondary teachers.

Social Work

SW 507. **Seminar: The Child in the Community.** 3 hours. (UO)

Present social services established for the nurture and protection of children in our society; problems involved when services are inadequate or lacking;

responsibilities of the state and the community to provide necessary services.

SW 507. Seminar: Personality of the Hard to Reach Individual I. Hours to be arranged. (UO)

The study of the "hard-to-reach" youth and adult in terms of personality structure, needs, interaction with others and with community agencies; designed to give social work practitioners increased understanding of such individuals. (This course is not applicable to a graduate degree in social work.)

SW 507. Seminar: Personality of the Hard to Reach Individual II. Hours to be arranged. (UO)

Development of skill in diagnosis of the personality problems of "hard-to-reach" adults and children; principles of treatment. Students will be expected to submit case material for diagnostic study and treatment planning. Prerequisite: SW 507, Seminar: Personality of the Hard-to-Reach Individual I, or consent of the instructor. (This course is not applicable to a graduate degree in social work.)

SW 511, 512, 513. Social Case Work. 3 hours each. (UO)

Generic concepts of case work practices in different agency settings; diagnosis and analysis of cases, treatment problems.

SW 516, 517. Personality Development. 2 hours each. (UO)

First term: the growth of the individual with emphasis on emotional factors; the integration of psychiatric theory with case work; social factors that influence development; special lectures and case studies. *Second term:* emotional problems commonly met in social agencies; the role of psychiatrist and case worker in the study and treatment of the patient. Prerequisite for SW 517: SW 516 or consent of instructor.

SW 572. Community Organization for Social Welfare. 3 hours. (UO)

Problems involved in bringing about an adjustment between social welfare needs and resources; understanding the social forces of the community; methods used by public and private agencies to meet these needs; interpretation of agency problems to the community.

Sociology

Soc 204, 205, 206. General Sociology. 3 hours each. (OSU)

Principles underlying structure and functioning of human groups. Soc 206 stresses application of social problems. Soc 212 may be submitted for Soc 204.

Soc 204, 205, 206. General Sociology. 3 hours each. (PSC)

The basic findings of sociology concerning the individual, culture, group life, social institutions, and factors of social change. Soc 204, 205 or consent of instructor are prerequisites to Soc 206. Open to freshmen.

Soc 204, 205, 206. General Sociology. 3 hours each. (UO)

The basic findings of sociology concerning the individual, culture, group life, social institutions, and factors of social change. Prerequisite: sophomore standing or consent of instructor.

Soc 214, 215, 216. Anthropology. 3 hours each. (OSU)

Interplay of man with his environment through the ages; factors influencing physical cultural development of man. Soc 214: physical anthropology; Soc 215: cultural anthropology—general; Soc 216: cultural anthropology—American. Prerequisite: Soc 215 must be taken before 216.

Soc 309. American Society. 3 hours. (UO)

An analysis of American society in terms of its significant structural traits and their functions; major changes in American society and selected contemporary problems examined in their relation to institutional social structures.

Soc 334, 335. Social Psychology. 3 hours each. (PSC)

Analysis of the psychological and sociological processes in personality for-

mation and in various forms of group behavior. Particular attention to origin, function, ideology, membership and leadership. Prerequisite: Soc 204, 205 or Psy 201, 202.

- Soc 338. **Marriage and the Family.** 3 hours. (PSC)
The growth and development of the family throughout its life cycle. The family and personality development, mating, courtship, mate selection, engagement, marital and family adjustment, family crisis. Prerequisite: junior standing or consent of instructor.
- Soc 338. **Marriage and the Family.** 3 hours. (UO)
The growth and development of the husband-wife relationship throughout the family life cycle. Special emphasis on the period from engagement through the birth of the first child. Prerequisite: Soc 204, 205; or Psy 201, 202; or consent of instructor.
- Soc 407. **Seminar: The Interviewing Process.** (G) 3 hours. (UO)
The principles and methods of casework interviewing: an examination of theories, principles, methods of interviewing. Case material will be used to assist in the integration of theory into practice.
- Soc 407. **Seminar: Non-Medical Problems in Illness.** (G) 3 hours. (UO)
- Soc 407. **Seminar: Penological Systems.** (G) 3 hours. (UO)
- Soc 407. **Seminar: Social Welfare Resources and Organization. (Use of Social Agencies by Teachers, Nurses, and other Professionals).** (G) 3 hours. (UO)
The various types of social welfare resources which teachers, nurses, and other professionals can use to help people with social and emotional problems, methods of organizing these resources for the meeting of human needs.
- Soc 407. **Seminar: The Treatment of the Youthful Offender.** (G) 3 hours. (UO)
The philosophy, principles and methods of the treatment of youthful offenders. An examination of theories of causes biological, psychological, sociological, anthropological and their relationship to treatment programs both in the community, and the institution.
- Soc 411, 412, 413. **Social Problems.** (g) 3 hours each. (OSU)
May be taken separately. Soc 411: delinquency; Soc 412: criminology and penology; Soc 413: race relations and minority groups. Prerequisite: 6 hours of sociology or sociology and psychology.
- Soc 416, 417. **Criminology and Delinquency.** (G) 3 hours each. (UO)
The nature and extent of delinquency and crime as forms of deviant social behavior; contributing factors; current prevention and treatment programs. Prerequisite: Soc 204, 205; or Psy 201, 202; or Soc 307.
- Soc 421. **Social Change.** (G) 3 hours. (UO)
Analysis of the processes, characteristics, and conditions of change in large social systems. Systematic examination of various theoretical problems and formulations. Prerequisite: 9 hours in sociology.
- Soc 438. **Collective Behavior.** (G) 3 hours. (UO)
A social-psychological study of the behavior of persons in such collective contexts as crowds, mobs, and publics, i.e., in the less stable and predictable phases of group life. Fads, crazes, rumor, panics, riots, and mass hysteria analyzed in terms of social and psychological determinants and consequences. Prerequisite: Soc or Psy 334, 335 or equivalent.
- Soc 440, 441. **Group Dynamics.** (G) 3 hours each. (UO)
First term: analysis of the dynamics of group interaction through readings and experimentation in the classroom setting; *Second term:* the group aspects of professional practice. Designed to provide a basis for professional work with and professional participation in groups.

Soc 465, 466. **Sociology of the Family.** (G) 3 hours each. (UO)

First term: the family as a social institution, and its relations to other institutions. *Second term:* the dynamics of family interaction throughout the family life cycle. Prerequisite: 9 hours in sociology.

Speech and Speech Correction

Sp 111. **Fundamentals of Speech.** 3 hours. (OCE)

Opportunity to develop poise and confidence and to organize and present material effectively.

Sp 112. **Fundamentals of Speech.** 3 hours. (OCE)

Continuation of Speech 111.

Sp 111, 112, 113. **Extempore Speaking.** 3 hours each. (OSU)

Original speeches; analysis and synthesis of material, adaptation to audience, outline construction; development of confidence and release on platform; voice, enunciation, gesture, and bearing in delivery; speeches for special occasions; the extended address. Must be taken in sequence.

Sp 111, 112, 113. **Fundamentals of Speech.** 3 hours each. (PSC)

Projects in extempore speaking. Emphasis on content and organization of speech, but attention also to poise, effective delivery, and command of the language.

Sp 111, 112, 113. **Fundamentals of Speech.** 3 hours each. (UO)

Projects in extempore speaking. *Sp 111, 112:* emphasis on content, organization, performance, audience motivation, language, discussion, and parliamentary procedures; not open to students who have taken Sp 235. *Sp 113:* emphasis on voice and diction, bodily action and reading from the printed pages; attention to style in the preparation and presentation of speeches.

Sp 114. **Speech Development.** 3 hours. (PSC)

Speech projects designed to improve general speech personality and communication, and to develop better voice and diction.

Sp 120. **Voice and Diction.** 3 hours. (OCE)

Practice of the principles of tone production and phonetic analysis of English sounds as a basis for correct and effortless speech.

Sp 225. **Public Speaking for Business and Professional Men and Women.** (First term) 2 hours. (UO)

A practical course in actual speaking. Poise on the floor; improvement of diction and voice; organization of speech materials and presentation in direct conversational style. Persuasion in speaking; sales talk. Study of motives that impel men to action and ways of reaching these motives.

Sp 322. **Discussion.** (Second term) 3 hours. (PSC)

Theory of discussion as it applies to improved interpersonal relations and cooperative problem-solving. Practice in typical applications of discussion in community affairs, in business, in teaching and other professions. Prerequisite: Sp 111.

Sp 370. **Phonetics.** 3 hours. (PSC)

A study of sounds used in speech; determination of sounds; their symbolic nature; their production; physical and psychological problems involved in their perception. No prerequisite.

Sp 371. **Speech Science.** 3 hours. (UO)

A study of the anatomy, psychology, and physics of speech.

Sp 481, 482, 483. **Speech Pathology.** (G) 3 hours each. (UO)

Symptoms, causes, and treatment of speech abnormalities. *Sp 481:* functional articulatory defects, delayed speech, emotional speech disorders; *Sp 482:* organic speech disorders, including deviations due to congenital mal-

formation, injury, deafness, and neurological impairment; *Sp 483*: public school speech correction, specific techniques in the diagnosis and treatment of major speech problems. Prerequisite: *Sp 370, 371* or consent of instructor.

Sp 484, 485, 486. Clinical Speech Therapy. (G) 2 hours each. (UO)

Supervised clinical work with speech-defective children and adults, enrolled for counseling, testing, and treatment in the Speech and Hearing Clinic; group discussion of case histories and techniques. Prerequisite: *Sp 481, 482* or consent of instructor.

Sp 489. Audiology. (G) (Third term) 3 hours. (UO)

The auditory function, hearing impairment, and the education or re-education of persons with hearing loss. Speech and auditory training, psychology of deafness, school and vocational problems. Prerequisite: *Sp 370, 371* or consent of instructor.

Sp 492. Voice and Speech for the Deaf. (G) 3 hours. (UO)

A course specifically designed for teachers of hearing impaired children and speech specialists. Includes a study of normal speech and voice production; speech characteristics of hearing impaired children; and methods of voice and speech training for children with hearing impairment. Prerequisite: consent of instructor.

Sp 493. Principles and Techniques of Speech Correction. (g) 3 hours. (EOC)

Designed to survey the field of speech defects and to acquaint classroom teachers with an understanding of typical speech defects among children and basic techniques for their prevention and correction. Emphasis placed on those areas of speech correction to aid classroom teachers, including analysis of speech mechanics, recognition of defects, formation of sounds, testing devices, and parent cooperation.

Sp 493. Principles and Techniques of Speech Correction. (G) 3 hours. (OSU)

Nature, causes, diagnosis and treatment of speech defects both organic and functional; for students requiring knowledge of speech problems of children and adolescents especially. Recommended prerequisite: *Sp 480*.

Sp 507. Seminar: Psychological and Human Relations Aspects of Speech and Hearing Therapy. 3 hours. (UO)

A course designed for persons who have had considerable training and clinical experience in speech correction. Study of psychological problems related to speech and hearing disorders, interviewing, counseling, patient-family-therapist relationships, inter-professional and intra-professional relationships. Consent of instructor required.

Theater Arts

TA 27. Understanding Modern Theater. (non-credit) (2 hours) (DCE)

Ten discussions of modern theater, together with slides and recordings. The instructor has just returned from a tour of European theater centers from Belgrade to London.

TA 28. Drama and Contemporary Social Problems. (non-credit) (2 hours) (DCE)

Group reading and discussion of plays which consider today's social problems.

TA 29. Toy Theaters for Children, Parents and Teachers. (non-credit) (2 hours). (DCE)

This Victorian device for pleasure and instruction may be a reasonable antidote to the problem of television. Participants in the course will operate toy theaters, and learn their history and literature. The course will be offered on Saturday mornings, so that both children and their parents may participate.

Writing

Wr 27, 28, 29. **Creative Writing.** (non-credit) (DCE)

Wr 49. **Corrective English.** (non-credit) (OSU)

Refresher course in English fundamentals.

Wr 50. **Corrective English.** (non-credit) 1 hour. (UO)

One-term course in the mechanics of English, required for freshmen who receive low ratings in an entrance placement examination. For such students Wr 50 is a prerequisite for any other course in written English.

Wr 111, 112, 113. **English Composition.** 3 hours each. (OSU)

Frequent written compositions with emphasis on clarity and accuracy. Courses must be taken in sequence. Prerequisite: English placement examination. Students who pass placement test with distinction should enroll in honors sections in Wr 111, 112, 113.

Wr 111, 112, 113. **English Composition.** 3 hours each. (PSC)

The principles and forms of composition, including the library research paper; effective expression of the student's ideas through impromptu and prepared essays on topics of some significance, with special attention to organization. Mastery of the basic mechanics of English expression is presupposed; students who have deficiencies in written English may be required to register for 1 hour of Writing Laboratory in addition to Wr 111. Wr 111 is a prerequisite for Wr 112, and Wr 112 is a prerequisite for Wr 113. These 9 hours are not acceptable toward fulfillment of Humanities requirements.

Wr 111, 112, 113. **English Composition.** 3 hours each. (SOC)

A year sequence to enable the student to learn to use the English language effectively and to develop greater facility in composition, with emphasis on immediate and future needs of individual students in functional English. Special attention is given to order and arrangements of ideas and subject matter, with much practice on various methods of presentation.

Wr 111, 112, 113. **English Composition.** 3 hours each. (UO)

The fundamentals of English composition; frequent written themes. Special attention to correctness in fundamentals and to the organization of papers.

Wr 214. **Business English.** 3 hours. (OSU)

Common types of business letters. Prerequisite: Wr 113.

Wr 214. **Business English.** 3 hours. (PSC)

Study of modern practices in business correspondence, primarily for students of business administration. Analysis and writing of the principal types of correspondence. Prerequisite: Wr 111, 112, 113.

Wr 230. **Effective Writing.** 3 hours. (OSU)

Practice to develop exactness and facility of expression; course varied to suit individuals. Prerequisite: Wr 113.

Wr 324, 325, 326. **Short Story Writing.** 3 hours. (OSU)

Designed to develop proficiency in art of writing short story. Courses may be taken separately. Prerequisite: Wr 113.

Wr 411. **English Composition for Teachers.** (g) 3 hours. (UO)

For students expecting to teach English in high school. Practice in writing and a review of the rules of composition. Recommended for satisfaction of the high-school teaching requirement in English.

Academic Year Schedule

The tentative schedule of courses to be offered by Continuation Centers during the 1963-64 academic year is listed by communities in the following pages. The schedule is included as an aid to students in planning for the year. Because of changing needs and conditions, courses may be added or canceled. Schedules issued about one month before the start of each term will give complete information on courses to be offered in each community in Oregon. Requests for course schedules for each term should be sent to: Information Services, Continuation Centers, 1633 S.W. Park Ave., Portland 1, Oregon.

Letters in parentheses following each course title indicate terms—fall, winter, spring—that courses will be offered.

Ashland Continuation Center

Brookings

(UO) Ed 407-507. Seminar: Child Health and Educational Welfare under Different Ideologies (F)

Coos Bay

(UO) Ed 407-507. Seminar: Child Health and Educational Welfare under Different Ideologies (F)

Coquille

(UO) PE 408-508. Workshop for Elementary School (F)

(UO) PE 420. Methods and Resource Materials in Elementary School Physical Education (W)

(SOC) Psy 412. Psychology of Adolescence (F)

Grants Pass

(UO) AA 290. Painting (F)

(UO) Ed 507. Seminar: Applied Mental Hygiene (F)

(SOC) Sc 201, 202, 203. Foundations of Physical Science (FWS)

Klamath Falls

(SOC) A 321. Design (S)

(SOC) Bi 101, 102, 103. General Biology (FWS)

(SOC) Ed 424. Measurements in Education

(SOC) Ed 485. Principles and Practices of Guidance Services (S)

(UO) Ed 536. Language Arts in the Elementary School

(UO) Ed 589. Organization and Administration of Guidance Services

(SOC) Eng 107, 108, 109. World Literature (FWS)

(OSU) IEd 472. Occupational Analysis (S)

(SOC) Mth 415. History of Elementary Mathematics (F)

(SOC) Psy 311. Human Development (F)

Medford

- (UO) Ed 471. Administration of Special Education (F)
- (UO) Ed 576. School Buildings (F)

Myrtle Point

- (UO) Ed 462. Psychology of Exceptional Children
- (UO) Ed 464. The Mentally Retarded Child
- (SOC) Ed 476. School Law and Organization
- (SOC) Ed 485. Principles and Practices of Guidance Services
- (UO) Ed 575. School Finance
- (SOC) Mth 311. Fundamentals of Mathematics (S)

North Bend

- (UO) AA 293. Elementary Sculpture
- (UO) ArE 311, 312, 313. Art and Craft for Elementary Teacher (FWS)
- (OSU) Ed 310. School in American Life
- (OSU) Ed 312. Educational Psychology: Learning
- (UO) Ed 407. Seminar: Advanced Child Study
- (UO) Ed 407. Seminar: Reading in the Elementary School
- (OCE) Ed 435. Audio-Visual Aids
- (UO) Ed 463. Maladjusted Child
- (OSU) Ed 484. The Junior High School
- (UO) Ed 485. Principles and Practices of Guidance Services
- (UO) Ed 534. Science in the Elementary School
- (UO) Ed 535. Social Studies in the Elementary School
- (UO) Ed 536. Language Arts in the Elementary School
- (OSU) Ed 537. Reading in the Elementary School
- (OSU) Ed 566. Curriculum Construction
- (UO) Ed 574. School Supervision
- (UO) Ed 576. School Buildings
- (OSU) Mth 414. Foundations of Elementary Mathematics
- (UO) MuE 383. Music Methods
- (OSU) Psy 311. Human Development

Roseburg

- (SOC) A 127. Art Appreciation (S)
- (SOC) Bi 101, 102, 103. General Biology (FWS)
- (SOC) Ec 201, 202, 203. Principles of Economics (FWS)
- (UO) Ed 446. Modern Philosophies of Education (S)
- (SOC) Eng 107, 108, 109. World Literature (FWS)
- (SOC) HE 151. Personal Hygiene (F)
- (SOC) Hst 101, 102, 103. History of the Western Civilization (FWS)
- (SOC) Hst 201, 202, 203. History of the United States (FWS)
- (SOC) Mth 100, 101, 102. Intermediate Algebra, College Algebra, Trigonometry (FWS)
- (SOC) Mus 127. Music History and Appreciation (W)
- (SOC) Mus 381, 382, 383. Music Fundamentals (FWS)
- (SOC) Psy 201, 202, 203. General Psychology (FWS)
- (SOC) Psy 311. Human Development (W)
- (SOC) Wr 111, 112, 113. English Composition (FWS)

Corvallis Continuation Center

Albany

- (OSU) BA 211, 212, 213. Fundamentals of Accounting (FWS)
- (OSU) Ed 487. Counseling Techniques (F)
- (OSU) Eng 115. Effective Reading (W)
- (OSU) Eng 253, 254, 255. Survey of American Literature (FWS)
- (OSU) Eng 488. Literature for Teachers (W)
- (OCE) Eng 494. Nature of the English Language (S)
- (OSU) Hst 101, 102, 103. History of Western Civilization (FWS)
- (OCE) Mth 111, 112, 113. Essentials of Mathematics (FWS)
- (OCE) Sp 111. Fundamentals of Speech (W)
- (OSU) Wr 111, 112, 113. English Composition (FWS)

Astoria

- (PSC) AA 407. Seminar (F)
- (OSU) Ed 461. Psychology of Adolescence (W)
- (OSU) Ed 463. The Maladjusted Child (W)
- (OSU) Geog 331. Geography of Asia (S)
- (OSU) Hst 460. American Thought and Culture (W)
- (UO) Psy 524. Individual Intelligence Testing (S)

Corvallis

- (OSU) AA 290. Painting (FWS)
- (OSU) AA 291. Drawing (FWS)
- (OSU) AA 293. Sculpture (FWS)
- (OSU) AA 429. Art Problems in Elementary Schools (FW)
- (OSU) BA 211, 212, 213. Principles of Accounting (FWS)
- (OSU) BA 411. Business Law (F)
- (OSU) BA 434. Income Tax Procedure (W)
- (OSU) BA 465. Salesmanship (S)
- (OSU) Ec 201, 202, 203. Principles of Economics (FWS)
- (OSU) Ed 101. Methods of Study (F)
- (OSU) Ed 407, 507. Seminar: Prevention of Maladjustment (FWS)
- (OCE) Ed 410. Methods and Research Materials: Music (FS)
- (OSU) Eng 104, 105, 106. Appreciation of Literature (FWS)
- (OSU) Eng 115. Effective Reading (FWS)
- (OSU) Eng 253, 254, 255. Survey of American Literature (FWS)
- (OSU) Eng 394, 395, 396. Twentieth Century Literature (FWS)
- (OSU) GS 101, 102, 103. General Biology (FWS)
- (OSU) GS 104, 105, 106. Physical Science (FWS)
- (OSU) Geog 105, 106, 107. Introductory Geography (FWS)
- (OSU) G 200. Physical Geology (F)
- (OSU) G 350. Rocks and Minerals (W)
- (OSU) G 352. Geology of Oregon (S)
- (OSU) GL 50, 51, 52. First-Year German (FWS)
- (OSU) Hst 101, 102, 103. History of Western Civilization (FWS)
- (OSU) Hst 224, 225, 226. History of American Civilization (FWS)
- (OSU) Mth 10. Elementary Algebra (FWS)
- (OSU) Mth 100. Intermediate Algebra (FWS)
- (OSU) Mth 101. College Algebra (W)
- (OSU) Mth 102. Trigonometry (S)

(OSU) Oc 331. Introduction to Oceanography (W)
(OSU) PS 201, 202, 203. American Governments (FWS)
(OSU) Psy 201, 202. General Psychology (FW)
(OSU) Psy 205. Applied Psychology (S)
(OSU) Psy 311. Human Development (W)
(OSU) RL 50, 51, 52. First-Year French (FWS)
(OSU) RL 60, 61, 62. First-Year Spanish (FWS)
(OSU) SL 50, 51, 52. First-Year Russian (FWS)
(OSU) Soc 214, 215, 216. Anthropology (FWS)
(OSU) Sp 111, 112, 113. Extempore Speaking (FWS)
(OSU) Wr 49. Corrective English (FWS)
(OSU) Wr 111, 112, 113. English Composition (FWS)
(OSU) Wr 214. Business English (W)
(OSU) Wr 324, 325, 326. Short Story Writing (FWS)

Dayton

(OCE) Ed 485. Principles and Practicess of Guidance Services (F)

Lebanon

(OSU) F 407-507. Seminar: Forest Conservation (W)
(OSU) Lib 379. Elementary School Library (F)

McMinnville

(OSU) Ed 435. Auto-Visual Aids (F)
(OSU) Ed 507. Seminar: Audio-Visual Frontiers (S)
(OSU) Ed 511. Recent Educational Trends and Problems (S)
(OSU) Soc 412. Social Problems (W)

Lower Division Program including courses to accommodate freshman-sophomore basic State System academic requirement may be scheduled (see Fall schedule).

Newport

(OSU) Ed 507. Seminar. (Ungraded primary school).

Tillamook

(OCE) Ed 507. Seminar: Teacher-Parent-Pupil Conference (F)

Eugene Continuation Center

Eugene

(UO) Ac 313. Managerial Accounting
(UO) Ac 211, 212, 213. Fundamentals of Accounting (FWS)
(UO) Anth 207, 208, 209. Introduction to Cultural Anthropology (FWS)
(UO) Anth 414. Race and Culture
(UO) AA 0223. Elements of Interior Design (F)
(UO) AA 201, 202, 203. Survey of the Visual Arts (FWS)
(UO) AA 211, 212, 213. Graphics (FWS)

- (UO) AA 255. Ceramics (FWS)
 (UO) AA 257. Jewelry and Metalsmithing (FWS)
 (UO) AA 289. Landscape Design (W)
 (UO) AA 290. Painting (FWS)
 (UO) AA 293. Elementary Sculpture (FWS)
 (UO) AA 295. Basic Design (F)
 (UO) ArE 311, 312, 313. Art and Craft for the Elementary Teacher (FWS)
 (UO) Bi 0334. Plant Identification (S)
 (UO) Bi 101, 102, 103. General Biology (FWS)
 (UO) *BEd 333. Office Organization and Management (W)
 (UO) Ch 104, 105, 106. General Chemistry (FWS)
 (UO) Ec 201, 202, 203. Principles of Economics (FWS)
 (UO) *Ed 401. Seminar. (G) Hours to be arranged.
 (UO) *Ed 409. Practicum. (G) Hours to be arranged.
 (UO) *Ed 424. Measurement in Education
 (UO) *Ed 428. Psychology of Reading Instruction
 (UO) *Ed 429. Principles of Remedial Education
 (UO) *Ed 439. The Gifted Child
 (UO) *Ed 462. Psychology of Exceptional Children
 (UO) Ed 463. The Maladjusted Child (FWS)
 (UO) *Ed 464. The Mentally Retarded Child
 (UO) *Ed 465. Diagnostic Techniques in the Basic Skills
 (UO) *Ed 468. Remedial Techniques in the Basic Skills
 (UO) *Ed 459. Reading in High School and College
 (UO) *Ed 485. Principles and Practices in Guidance Services
 (UO) *Ed 507. Seminar. Staff Personnel Problems
 (UO) *Ed 507. Seminar: Advanced School Law
 (UO) *Ed 507. Seminar: School Business Administration (W)
 (UO) *Ed 534. Science in the Elementary School
 (UO) *Ed 535. Social Studies in the Elementary School
 (UO) *Ed 536. Language Arts in the Elementary School
 (UO) *Ed 537. Reading in the Elementary School
 (UO) *Ed 538. Mathematics in the Elementary School
 (UO) *Ed 563. Diagnosis in Mental Retardation
 (UO) *Ed 572. Public School Administration
 (UO) *Ed 573. Public School Organization
 (UO) *Ed 574. School Supervision
 (UO) *Ed 575. School Finance
 (UO) *Ed 576. School Buildings
 (UO) Eng 101, 102, 103. Survey of English Literature (FWS)
 (UO) Eng 104, 105, 106. Introduction to Literature (FWS)
 (UO) Eng 201, 202, 203. Shakespeare (FWS)
 (UO) Eng 391, 392, 393. American Novel (FWS)
 (UO) Eng 394, 395, 396. Twentieth-Century Literature (FWS)
 (UO) *FBE 216. Business Law
 (UO) *FBE 320. Financial Institutions
 (UO) *FBE 988. Business Finance
 (UO) FBE 425. Real-Estate Fundamentals (F)
 (UO) FBE 427. Real-Estate Appraising (W)
 (UO) Geog 105, 106, 107. Introductory Geography (FWS)
 (UO) Geol 291. Rocks and Minerals
 (UO) Geol 352. Geology of Oregon
 (UO) GL 50a, 50b, 51a. First-Year German (FWS)
 (UO) GS 104, 105, 106. Physical Science Survey (FWS)

* Indicates evening classes for full time University of Oregon students which are open to Division of Continuing Education students.

- (UO) *HEc 331. Home Planning and Furnishing
 (UO) Hst 101, 102, 103. History of Western Civilization (FWS)
 (UO) Hst 201, 202, 203. History of the United States (FWS)
 (UO) Hst 301, 302, 303. Europe since 1789 (FWS)
 (UO) Hst 432. Reformation (S)
 (UO) Hst 461. History of American Thought and Culture (W)
 (UO) Hst 487, 488, 489. American Economic History (FWS)
 (OTI) MA 152. Introduction to Dental Assisting
 (UO) Mth 100. Intermediate Algebra (F)
 (UO) Mth 104, 105, 106. Introductory College Mathematics (FWS)
 (UO) Mth 111, 112. Mathematics for Elementary Teachers
 (UO) *MIM 321. Organization and Interpersonal Relations
 (UO) *MIM 323. Elements of Marketing
 (UO) *MIM 329. Production Management
 (UO) *MIM 412. Personnel Management
 (UO) *MIM 414. Problems in Personnel Management
 (UO) *MIM 451. Transportation Regulatory Laws and Procedures
 (UO) *MuE 533. Music in the Elementary School (W)
 (UO) *MuE 535. Music in the Senior High School (S)
 (UO) Phil 201. Problems of Philosophy (F)
 (UO) Phil 202. Elementary Ethics (W)
 (UO) Phil 203. Elementary Logic (S)
 (UO) Phil 301, 302, 303. History of Philosophy (FWS)
 (UO) PS 201, 202, 203. American Government (FWS)
 (UO) PS 320, 321. World Politics (FW)
 (UO) PS 322. American Foreign Policy (S)
 (UO) Psy 201, 202. General Psychology (FW)
 (UO) Psy 204. Psychology of Adjustment (S)
 (UO) Psy 436. Character and Personality
 (UO) Psy 450. Abnormal Psychology
 (UO) Psy 460. Developmental Psychology I: Infancy and Childhood
 (UO) Psy 461. Developmental Psychology II: Adolescence and Maturity
 (UO) *Psy 524. Individual Intelligence Testing
 (UO) *Psy 525. Individual Intelligence Testing
 (UO) RL 50a, 50b, 51a. First-Year French (FWS)
 (UO) RL 60a, 60b, 61b. First-Year Spanish (FWS)
 (UO) *SS 11. Beginning Typing
 (UO) *SS 111. Briefhand
 (UO) *SS 122, 123. Advanced Typing
 (UO) *SS 323. Business Machines
 (UO) Soc 204, 205, 206. General Sociology (FWS)
 (UO) Soc 309. American Society (S)
 (UO) Soc 338. Marriage and the Family (W)
 (UO) Soc 407. Seminar: The Interviewing Process
 (UO) Soc 407. Seminar: The Treatment of the Youthful Offender
 (UO) Soc 416, 417. Criminology and Delinquency (FW)
 (UO) Soc 465. Sociology of the Family (F)
 (UO) Sp 111, 112, 113. Fundamentals of Speech (FWS)
 (UO) Sp 225. Public Speaking for Business and Professional Men and Women (F)
 (UO) Wr 50. Corrective English (FWS)
 (UO) Wr 111, 112, 113. English Composition (FWS)

* Indicates evening classes for full time University of Oregon students which are open to Division of Continuing Education students.

Redmond

- (UO) Ed 407. Seminar : Ungraded Primary (F)
- (UO) Ed 407. Seminar : Counseling Techniques (W)
- (UO) Ed 537. Reading in the Elementary School (S)

La Grande Continuation Center

Baker

- (EOC) Ed 408. Special Secondary Methods: English (W)
- (EOC) Ed 408. Special Secondary Methods: Social Science (S)
- (EOC) Ed 435. Audio-Visual Aids (S)
- (EOC) Sp 493. Principles and Techniques of Speech Correction (W)

Condon

- (EOC) Ed 435. Audio-Visual Aids (F)

Enterprise

- (EOC) A 322. Design (F)
- (EOC) Ed 410. Methods and Research Materials: Reading (W)
- (EOC) Ed 425. Measurement in Education (F)
- (EOC) Ed 463. The Maladjusted Child (W)
- (EOC) Sc 203. Foundations of Physical Science (3rd term) (S)

Hermiston

- (EOC) A 318. Painting (F)
- (EOC) Ed 485. Principles and Practices of Guidance Services (F)
- (EOC) Hst 492. World Problems (W)
- (EOC) Psy 412. Psychology of Adolescence (W)
- (EOC) RL 61, 62. First-Year Spanish (2nd & 3rd terms) (FW)

John Day

- (EOC) Ed 407-507. Seminar : Curriculum (F)

La Grande

- (EOC) Psy 412. Psychology of Adolescence (F)

Milton-Freewater

- (EOC) Ed 410. Methods and Research Materials: Language (W)
- (EOC) Ed 483. General Intelligence Testing (S)
- (EOC) Hst 492. World Problems (F)

Ontario

- (EOC) Ed 575. School Finance (F)
- (EOC) Mus 383. Music Education (Elementary) (F)

Pendleton

- (EOC) Ed 435. Audio-Visual Aids (W)
- (EOC) Ed 463. The Maladjusted Child (S)
- (EOC) Ed 470. Education of the Exceptional Child (W)
- (EOC) Ed 480. Psychology of Reading Instruction (F)
- (EOC) Ed 518. Public and Professional Relations (F)
- (EOC) Ed 575 School Finance (S)
- (EOC) Eng 107, 108, 109. World Literature (FWS)
- (EOC) Psy 412. Psychology of Adolescence (W)
- (EOC) ScMth 407-507). Seminar: American Institute of Biological Science Program (F)

Monmouth-Salem Continuation Center

Canby

- (OCE) Ed 410. Methods and Research Materials: Arithmetic (New Methods for Primary Grades) (F)

Salem

- (OCE) A 117. Introduction to Ceramics (F)
- (OCE) A 219. Ceramics (W)
- (OCE) A 319. Clay Modeling (S)
- (OCE) A 216, 217. Lettering (FW)
- (OCE) A 321. Drawing (F)
- (OCE) A 322. Design (W)
- (OCE) A 323. Art Education (Elementary) (S)
- (OCE) A 331. Sculpture (FWS)
- (OSU) AA 250. Recreational Use of Art Crafts (FWS)
- (OSU) AA 290. Painting (FWS)
- (OSU) AA 295. Basic Design (FWS)
- (OSU) AA 296. Advertising Designs (FWS)
- (OCE) BA 211, 212, 213. Fundamentals of Accounting (FWS)
- (OSU) BA 411, 412, 413. Business Law (FWS)
- (OCE) Bi 101, 102, 103. General Biology (FWS)
- (OSU) CT 331. Home Furnishings (F)
- (OSU) Ec 201, 202, 203. Principles of Economics (FWS)
- (OSU) Ed 101. Methods of Study (W)
- (OCE) Ed 310. School in American Life (F)
- (OCE) Ed 312. Educational Psychology: Learning (S)
- (OCE) Ed 344. Physical Education in the Grades (S)
- (OCE) Ed 407. Seminar: Braille (F)
- (OCE) Ed 410. Methods and Research Material: Arithmetic Geometry (F)
- (OCE) Ed 410. Methods and Research Materials: Reading (F)
- (OCE) Ed 410. Methods and Research Materials: Language Arts (W)
- (OCE) Ed 410. Methods and Research Materials: Arithmetic (S)
- (UO) Ed 439. The Gifted Child (F)

- (UO) Ed 462. Psychology of Exceptional Children (W)
- (UO) Ed 463. The Maladjusted Child (S)
- (UO) Ed 469. Reading in High School and College (S)
- (UO) Ed 476. School Law and Organization (F)
- (OSU) Ed 485. Principles and Practices of Guidance Services (F)
- (OSU) Ed 486. Occupational and Educational Information (W)
- (OSU) Ed 487. Counseling Techniques (S)
- (UO) Ed 522. Secondary School Curriculum (F)
- (UO) Ed 553. Elementary School Curriculum (W)
- (UO) Ed 574. School Supervision (S)
- (UO) Ed 576. School Buildings (F)
- (OSU) Eng 107, 108, 108. World Literature (FWS)
- (OSU) Eng 115. Effective Reading (F)
- (OSU) Eng 201, 202, 203. Shakespeare (FWS)
- (OSU) Eng 253, 254, 255. Survey of American Literature (FWS)
- (OSU) Eng 417, 418, 419. The English Novel (FWS)
- (OSU) Eng 490. Development of English Language (F)
- (OSU) GE 212. Mechanics of Solids (F)
- (OSU) GE 301, 302. Mechanics of Fluids (WS)
- (OSU) Geog 105, 106, 107. Introductory Geography (FWS)
- (OCE) Geog 427. Geography of Soviet Union (S)
- (OCE) Geog 432. Geography of Africa (W)
- (OCE) Geog 451. Geography of Asia (F)
- (OSU) GS 407. Seminar: Program in BSCS Biology (Yellow Version) (FW)
- (OCE) GS 104, 105, 106. Physical Science (FWS)
- (OSU) G 201, 202, 203. Geology (FWS)
- (OCE) Hst 101, 102, 103. History of Western Civilization (FWS)
- (OCE) Hst 201, 202, 203. History of the United States (FWS)
- (UO) Hst 447, 448, 449. History of Russia (FWS)
- (UO) Hst 476, 477. History of the West (FW)
- (UO) Hst 478. History of Pacific Northwest (W)
- (UO) Hst 479. Forces and Influences in American History (S)
- (OSU) Hum 307. Seminar: Writing Poetry (F)
- (OSU) LA 326. Plant Materials (F)
- (PSC) LE 211. Police Techniques I (F)
- (PSC) LE 212. Police Techniques II (W)
- (PSC) LE 213. Police Techniques III (S)
- (OSU) Lib 388. Children's Literature (F)
- (UO) MIM 407. Seminar: Business Research Methods Statistics
- (OCE) Mus 381, 382. Music Fundamentals (FW)
- (OCE) Mus 383. Music Education (Elementary) (S)
- (OSU) RL 60, 61, 62. First-Year Spanish (FWS)
- (UO) SL 50a, 50b, 51a. First-Year Russian (FWS)
- (OSU) PE 480. Driver Education and Training (S)
- (OSU) Phil 201, 202, 203. Introduction of Philosophy (FWS)
- (OSU) Psy 111. Personality and Development (S)
- (OSU) Psy 201, 202. General Psychology (FW)
- (OSU) Psy 205. Applied Psychology (S)
- (OCE) Psy 311. Human Development (W)
- (UO) Psy 407. Seminar: Adolescent Behavior (F)
- (UO) Psy 450. Abnormal Psychology (S)
- (UO) Psy 507. Seminar: Study of Delinquency (F)
- (UO) Psy 524, 525. Individual Intelligence Testing (FW)
- (UO) Psy 535. Advanced Social Psychology (S)
- (OSU) SEd 441, 442. Health Education (FW)
- (UO) SW 511, 512, 513. Social Case Work (FWS)
- (OSU) Soc 204, 205, 206. General Sociology (FWS)

- (OSU) Soc 214, 215, 216. Anthropology (FWS)
 (UO) Soc 416, 417. Criminology and Delinquency (FW)
 (OCE) Sp 111,112. Fundamentals of Speech (FW)
 (OCE) Sp 120. Voice and Diction (S)
 (OSU) SSc 441, 442, 443. International Politics and National Power (FWS)
 (OSU) Wr 111,112, 113. English Composition (FWS)
 (OSU) Wr 214. Business English (F)

Portland Continuation Center

Portland

Anthropology

- (PSC) Anth 101, 102, 103. General Anthropology (FWS)
 (PSC) Anth 207, 208, 209. Introduction to Cultural Anthropology (FWS)
 (PSC) Anth 307, 308, 309. Peoples and Cultures of the World (FWS)
 (UO) Anth 417, 418, 419. The American Indian (FWS)
 (UO) Anth 450. Cultural Dynamics (W)
 (UO) Anth 526. Linguistics (F)

Art and Architecture

- (DCE) AA 22. Fashion Drawings (FWS)
 (DCE) AA 32, 33, 34. Introduction to Art Photography (FWS)
 (DCE) AA 42, 43, 44. Introduction to Art (FWS)
 (OSU) AA 178. House Planning and Architectural Drawing (F)
 (PSC) AA 195, 196, 197. Basic Design (FWS)
 (PSC) AA 201, 202, 203. Survey of Visual Arts (FWS)
 (PSC) AA 211, 212. Graphics II (FW)
 (PSC) AA 217. Lettering (FWS)
 (PSC) AA 223. Elements of Interior Design (S)
 (PSC) AA 290. Painting (FWS)
 (PSC) AA 291. Drawing (FWS)
 (PSC) AA 299. Graphic Design (FWS)
 (PSC) AA 311, 312, 313. Art in the Elementary Schools (FWS)
 (PSC) AA 363, 364, 365. Introduction to the History of Art (FWS)

Portland Art Museum

- (PSC) AA 195. Basic Design (FWS)
 (PSC) AA 217. Lettering (FWS)
 (PSC) AA 255. Ceramics (FWS)
 (PSC) AA 290. Painting (FWS)
 (PSC) AA 291. Drawing (FWS)
 (PSC) AA 293. Elementary Sculpture (FWS)
 (PSC) AA 296. Graphic Design (FWS)

Business Administration and Secretarial Science

- (UO) Ac 311. Income Taxation and Business Policy (S)
 (UO) Ac 411-412a, 412b-413. Income-Tax Procedures (FW)
 (UO) Ac 440, 441. Accounting Verification (FW)
 (UO) Ac 503. Hours to be arranged. (FWS)
 (UO) Ac 507. Hours to be arranged. (FWS)
 (UO) Ac 540. Administrative Controls (W)
 (UO) Ac 542. Auditing Concepts (S)

- (PSC) BA 111. Introduction to Business and Industry (FWS)
(PSC) BA 122. Principles of Management (WS)
(PSC) BA 211,212,213. Principles of Accounting (FWS)
(PSC) BA 221. Elements of Production (FWS)
(PSC) BA 222. Elements of Finance (FWS)
(PSC) BA 223. Elements of Marketing (FWS)
(PSC) BA 238. Salesmanship (FS)
(PSC) BA 314. Principles of Cost Accounting (FS)
(PSC) BA 315. Analysis of Financial Statements (W)
(PSC) BA 316. Managerial Use of Accounting Data (S)
(PSC) BA 329. Production Management (S)
(PSC) BA 339. Advertising (FS)
(PSC) BA 359. Finance Management (F)
(PSC) BA 366. Marketing Management (W)
(PSC) BA 383, 384, 385. Accounting Theory (FWS)
(PSC) BA 407. Seminar : Oregon Condemnation Appraising (F)
(OSU) BA 411. Business Law (F)
(OSU) BA 412. Business Law (W)
(OSU) BA 413. Business Law (S)
(OSU) BA 414. Real Estate Law (S)
(PSC) BA 415. Marketing Research (W)
(PSC) BA 416. Real Estate Principles (F)
(PSC) BA 417. Real Estate Practice (W)
(PSC) BA 418. Real Estate Appraisals (S)
(OSU) BA 424. Analysis of Financial Statements (F)
(OSU) BA 429. Case Problems in Controllorship (S)
(PSC) BA 430. Fund Accounting (S)
(PSC) BA 433. Credits and Collections (W)
(PSC) BA 435. General Insurance (F)
(PSC) BA 436. Investments (S)
(PSC) BA 453. Business Policies (W)
(PSC) BA 460. Purchasing (W)
(PSC) BA 462. Retail Management (S)
(OSU) BA 476. International Business (S)
(PSC) BA 487. Advanced Cost Accounting (W)
(PSC) BA 489, 490. Advanced Topics in Accounting (FW)
(PSC) BA 491. Advanced Accounting Theory (S)
(OSU) BA 497. Human Relations in Business (W)
(OSU) BA 499. Business Policy (S)
(UO) BEd 333. Office Organization and Management (S)
(OSU) BEd 540. Administration and Supervision of Business Education (S)
(UO) BS 432. Quantitative Analysis for Business Decisions (W)
(UO) BS 507. Seminar : Quantitative Analysis for Business Decisions (W)
(UO) FBE 426. Real-Estate Practice (W)
(UO) FBE 427. Real-Estate Appraising (S)
(UO) FBE 430. Advanced Real Estate and Urban Land Use (S)
(UO) FBE 503. Thesis (FWS)
(UO) FBE 507. Seminar (FWS)
(UO) FBE 507. Seminar : Legal and Social Philosophy of Business (S)
(UO) FBE 507. Seminar : Legal Environment of Business (F)
(UO) FBE 511. Methods in Business Research (F)
(UO) FBE 512. Problems in Business Forecasting (F)
(UO) FBE 522. Problems in Business Finance (W)
(UO) FBE 530. Managerial Economics (F)
(UO) FBE 565. Security Analysis (F)
(UO) MIM 349a, 349b. Domestic Transportation and Traffic Management (FW)

- (UO) MIM 354. Risk and Insurance (F)
- (UO) MIM 412. Personnel Management (F)
- (UO) MIM 413. Wage and Salary Administration (W)
- (UO) MIM 414. Problems in Personnel Management (S)
- (UO) MIM 436. Retailing Institutions in the Marketing Systems (W)
- (UO) MIM 442. Analysis of Consumer Behavior (S)
- (UO) MIM 455. Property and Liability Insurance (W)
- (UO) MIM 503. Thesis (FWS)
- (UO) MIM 507. Seminar (FWS)
- (UO) MIM 507. Seminar: Personnel Administration (S)
- (UO) MIM 507. Seminar: Administration of the Marketing Function (S)
- (UO) MIM 520. Marketing Problems and policies (W)
- (UO) MIM 530. Production Programming (F)
- (UO) MIM 531. Theory of Business Organization (W)
- (UO) MIM 532. Problems in Business Policies (S)
- (OSU) OA 539. Current Trends in Basic Business Subjects (F)
- (OSU) OA 541. Current Practices in Typewriting (W)
- (PSC) SS 111, 112. Briefhand (WS)
- (PSC) SS 111, 112, 113. Stenography (FWS)
- (PSC) SS 121, 122, 123. Typing
 - SS 121 (FS)
 - SS 122 (FW)
 - SS 123 (WS)
- (PSC) SS 211, 212, 213. Applied Stenography (FWS)
- (PSC) SS 215. Business Machines (FS)

Economics

- (PSC) Ec 201, 202, 203. Principles of Economics (FWS)
- (PSC) Ec 212. Outlines of Economics (S)
- (UO) Ec 320. International Finance (FW)
- (UO) Ec 414. Economics of Natural Resources and Conservation (FS)
- (OSU) Ec 423, 424. Money and Banking (FW)
- (UO) Ec 444. Labor Economics (F)
- (UO) Ec 445. Organized Labor (W)
- (UO) Ec 446. Labor Legislation (S)
- (PSC) Ec 450. Comparative Economic Systems (F)
- (UO) Ec 461. Government Control of Private Business (W)

Education

- (DCE) Ed 10. Reading Improvement (FWS)
- (PSC) Ed 310. School in American Life (FWS)
- (PSC) Ed 312. Educational Psychology: Learning (FWS)
- (PSC) Ed 314. Principles of Secondary Teaching (FWS)
- (PSC) Ed 344. Physical Education in the Grades (FWS)
- (PSC) Ed 351. School Health Programs (FWS)
- (PSC) Ed 356. Methods and Materials: Reading in the Elementary School (FWS)
- (PSC) Ed 358. Methods and Materials: Language Arts and Social Science (FWS)
- (PSC) Ed 359. Methods and Materials: Science and Mathematics (FWS)
- (PSC) Ed 388. Children's Literature and Library (FWS)
- (PSC) Ed 389. Reading and Telling Children's Stories (S)
- (PSC) Ed 390. Enriching Children's Reading (W)
- (PSC) Ed 401. Research (FWS)
- (PSC) Ed 406. Special Problems in Elementary Education (S)

- (PSC) Ed 407. Seminar: The Dancer's Craft (W)
(OSU) Ed 408. Special Secondary Methods in Trades and Industrial Education (F)
(UO) Ed 409. Practicum: Remedial Clinic—Diagnosis. Hours to be arranged. (FWS)
(UO) Ed 409. Practicum: Remedial Clinic—Remediation (FWS)
(UO) Ed 424. Measurement in Education (F)
(OSU) Ed 424. Measurement in Education (WS)
(UO) Ed 427. School Activities (F)
(UO) Ed 428. Psychology of Reading Instruction (W)
(UO) Ed 429. Principles of Remedial Education (F)
(OSU) Ed 431. Junior High School Curriculum (S)
(OSU) Ed 432. Junior High School Guidance (W)
(PSC) Ed 435. Audio-Visual Aids (FW)
(UO) Ed 439. The Gifted Child (W)
(UO) Ed 440. History of Education (F)
(PSC) Ed 442. Group Dynamics (WS)
(PSC) Ed 446. Philosophy of Education (S)
(OCE) Ed 451. Preprimary Education (F)
(OCE) Ed 452. Creative Arts in Childhood (W)
(OSU) Ed 460. Psychology of Childhood (W)
(OSU) Ed 461. Psychology of Adolescence (FWS)
(UO) Ed 462. Psychology of Exceptional Children (W)
(UO) Ed 463. The Maladjusted Child (S)
(UO) Ed 464. The Mentally Retarded Child (F)
(UO) Ed 465. Diagnostic Techniques in the Basic Skills (F)
(OCE) Ed 467. Applied Mental Hygiene (S)
(UO) Ed 468. Remedial Techniques in the Basic Skills (W)
(OSU) Ed 468. Diagnostic and Remedial Techniques in Reading (W)
(UO) Ed 469. Reading in High School and College (S)
(OCE) Ed 476. School Law and Organization (W)
(UO) Ed 484. The Junior High School (W)
(OSU) Ed 485. Principles and Practices of Guidance Services (FWS)
(OSU) Ed 486. Occupational and Educational Information (WS)
(OSU) Ed 487. Counseling Techniques (WS)
(UO) Ed 491. Social Education (S)
(PSC) Ed 493. Observation and Evaluation of Teaching (FWS)
(OSU) (UO) Ed 501. Research (FWS)
(OSU) (UO) Ed 503. Thesis (FWS)
(OSU) (UO) Ed 505. Reading and Conference (FWS)
(UO) Ed 507. Seminar: Administrative Problems (S)
(UO) Ed 507. Seminar: Education of Physically Handicapped Children (F)
(OCE) Ed 507. Seminar: Teacher/Parent/Pupil Conferences (F)
(OCE) Ed 507. Seminar: Teacher/Pupil Relationships (S)
(UO) Ed 507. Seminar: Problems of Staff Personnel (W)
(OSU) Ed 512. Research Procedures in Education (FW)
(UO) Ed 512. Research Procedures in Education (S)
(UO) Ed 522. Secondary-School Curriculum (S)
(UO) Ed 526. High-School Counseling (W)
(UO) Ed 527. Secondary-School Administration and Supervision (S)
(UO) Ed 528. Group Testing in Schools and Colleges (W)
(UO) Ed 534. Science in the Elementary School (F)
(UO) Ed 535. Social Studies in the Elementary School (S)
(UO) Ed 536. Language Arts in the Elementary School (F)
(UO) Ed 537. Reading in the Elementary School (W)
(OSU) Ed 543. History of American Education (W)
(OSU) Ed 546. Philosophy of Education (F)

- (UO) Ed 552. Elementary School Problems (W)
 (UO) Ed 553. Elementary-School Curriculum (S)
 (UO) Ed 554. Elementary-School Supervision and Administration (W)
 (OSU) Ed 561. Advanced Educational Psychology (S)
 (UO) Ed 562. Issues in Extreme Learning Difficulty (S)
 (UO) Ed 564. Mental Tests (S)
 (UO) Ed 565. Curriculum Foundations (F)
 (UO) Ed 566. Curriculum Construction (W)
 (UO) Ed 572. Public School Administration (F)
 (UO) Ed 573. Public School Organization (W)
 (UO) Ed 574. School Supervision (S)
 (UO) Ed 575. School Finance (S)
 (UO) Ed 576. School Buildings (W)
 (OSU) Ed 577. Counselor Training: Group Procedures (WS)
 (OSU) Ed 588. Supervised Counseling Techniques (WS)
 (UO) Ed 593. Methods in Secondary-School Language Arts (F)
 (UO) Ed 594. Methods in Secondary-School Mathematics (S)
 (UO) Ed 596. Methods in Secondary-School Social Studies (W)

Engineering

- (OSU) CE 312, 313. Photogrammetric and Control Surveying (FW)
 (OSU) CE 405. Reading and Conference (S)
 (OSU) CE 505. Reading and Conference (FWS)
 (OSU) *CE 517. Soil Mechanics (F)
 (OSU) CE 526. Hydraulics of Open Channels (F)
 (OSU) CE 531, 532, 533. Analysis and Design of Engineering Structures (FWS)
 (OSU) CE 560. Coastal Engineering (S)
 (OSU) EE 321, 322, 323. Circuits and Electronics (FWS)
 (OSU) EE 405. Reading and Conference: Power System Stability (FWS)
 (OSU) EE 505. Reading and Conference (FWS)
 (OSU) EE 507. Seminar (FWS)
 (OSU) EE 507. Seminar: Instrumentation (FWS)
 (OSU) EE 561, 562, 563. Communication Systems (FWS)
 (OSU) IE 505. Reading and Conference (FWS)
 (UO) IE 506. Projects: Production Planning and Control (S)
 (OSU) IE 591. Operation Analysis (F)
 (OSU) IE 592. Timing Techniques (W)
 (OSU) ME 505. Reading and Conference (FWS)
 (OSU) ME 512. Engineering Materials (F)
 (OSU) ME 526. Thermodynamics (W)
 (OSU) ME 528. Heat Transfer (S)

English and Writing

- (PSC) Eng 101, 102, 103. Survey of English Literature (FWS)
 (PSC) Eng 104, 105, 106. Appreciation of Literature (FWS)
 (PSC) Eng 107, 108, 109. World Literature (FWS)
 (PSC) Eng 201, 202, 203. Shakespeare (FWS)
 (OSU) Eng 211. Vocabulary Building. (FWS)
 (PSC) Eng 253, 254, 255. Survey of American Literature (FWS)
 (PSC) Eng 311, 312, 313. Tragedy, Comedy, and Satire (FWS)
 (PSC) Eng 384, 385, 386. Contemporary Literature (FWS)
 (UO) Eng 391, 392, 393. American Novel (FWS)
 (UO) Eng 407. Seminar in Special Authors: Metaphysical and Cavalier Poets from Donne through Rochester (F)

* This course is the first of a three-course sequence in soil mechanics and is a prerequisite for the other two which will be offered in succeeding years.

- (UO) Eng 407. Seminar in Special Authors: Milton's poetry with special emphasis on themes and style (W)
 (UO) Eng 407. Seminar in Special Authors: Neo-Classical Poetry (S)
 (UO) Eng 428. Chaucer (F)
 (UO) Eng 481, 482, 483. Major American Writers (FWS)
 (UO) Eng 488. Literature for Teachers (S)
 (OCE) Eng 490. Development of the English Language (S)
 (UO) Eng 491. Introduction to Modern English (W)
 (DCE) Wr 27, 28, 29. Creative Writing (FWS)
 (PSC) Wr 111, 112, 113. English Composition (FWS)
 (PSC) Wr 214. Business English (FS)
 (OSU) Wr 214. Business English (W)
 (UO) Wr 411. English Composition for Teachers (F)

Foreign Languages

- (PSC) GL 50, 51, 52. First-Year German (FWS)
 (PSC) GL 101, 102, 103. Second-year German (FWS)
 (PSC) GL 334, 335, 336. Intermediate German Conversation and Composition (FWS)
 (PSC) RL 50, 51, 52. First-Year French (FWS)
 (PSC) RL 101, 102, 103. Second-Year French (FWS)
 (PSC) RL 311, 312, 313. Survey of French Literature (FWS)
 (PSC) RL 70, 71, 72. First-Year Italian (FWS)
 (UO) RL 371, 372, 373. Third-Year Italian (FWS)
 (PSC) RL 60, 61, 62. First-Year Spanish (FWS)
 (PSC) RL 107, 108, 109. Second-Year Spanish (FWS)
 (PSC) RL 341, 342, 343. Survey of Spanish Literature (FWS)
 (PSC) SL 50, 51, 52. First-Year Russian (FWS)
 (PSC) SL 101, 102, 103. Second-Year Russian (FWS)
 (DCE) UAL 4, 5, 6. Finnish for Beginners (FWS)

Geography and Natural Resources

- (PSC) Geog 105, 106, 107. Introductory Geography (FWS)
 (PSC) Geog 304, 305, 306. Economic Geography (FWS)
 (PSC) Geog 313. Geography of the Pacific Northwest (S)
 (PSC) Geog 414. Geographic Background of American History (F)
 (PSC) Geog 426. Geography of Europe (W)
 (UO) Geog 427. Geography of the Soviet Union (W)
 (UO) Geog 432. Geography of Africa (W)
 (PSC) Geog 433. Geography of the Pacific (S)
 (UO) Geog 435. Urban Geography (S)
 (UO) Geog 451. Geography of Eastern Asia (F)
 (UO) Geog 452. Geography of Southern Asia (W)
 (UO) Geog 463. Geography of Middle America (F)
 (UO) Geog 464. Geography of South America (W)
 (OSU) NR 511. Conservation in the United States (W)

Health, Health Education, Physical Education and Recreation

- (UO) HE 250. Personal Health (F)
 (PSC) HE 252. First Aid (S)
 (PSC) HE 254. Advanced Hygiene (W)
 (UO) HE 542. Basic Issues in Health Education (F)
 (UO) HE 543. Advanced Health Instruction (W)
 (UO) HE 552. Administration of School Health Education (S)
 (OSU) HEd 440. Homemaking Education in the Community High School (S)
 (OSU) HEd 507. Seminar: Methods of Teaching Clothing (F)

- (OSU) HEd 511. Current Methods in Teaching Homemaking (W)
 (PSC) PE 180. Physical Education (Women). (Social Dance) (W)
 (PSC) PE 190. Physical Education (Men). (Social Dance) (W)
 (PSC) PE 341. Principles and Practices of Physical Education (S)
 (UO) PE 517. Methods of Research (S)
 (UO) Rec 407-507. Seminar: Organization and Administration of Camping (W)
 (UO) Rec 407-507. Seminar: Recreation Administration (S)
 (UO) Rec 407-507. Seminar: Youth and Leadership (F)

History

- (PSC) Hst 101, 102, 103. History of Western Civilization (FWS)
 (PSC) Hst 201, 202, 203. History of the United States (FWS)
 (PSC) Hst 341, 342, 343. Europe Since 1789 (FWS)
 (UO) Hst 443. History of France (S)
 (UO) Hst 447, 448, 449. History of Russia (FWS)
 (UO) Hst 453. History of Germany (F)
 (UO) Hst 457. The Era of American Sectional Conflict (F)
 (UO) Hst 458. The Era of the Civil War (W)
 (UO) Hst 459. The Era of Reconstruction (S)
 (OSU) Hst 460, 461, 462. American Thought and Culture (FWS)
 (UO) Hst 469. Twentieth-Century England (W)
 (UO) Hst 476, 477. History of the West (FW)
 (UO) Hst 478. History of the Pacific Northwest (S)
 (OSU) Hst 480, 481, 482. The United States in the Twentieth Century (FWS)

Home Economics

- (OSU) CT 331. Home Furnishing (S)
 (OSU) FN 411. Family Food Buying (W)

Humanities

- (PSC) Hum 356. The Art of the Film (W)
 (PSC) Hum 357. Film and Society (S)
 (OCE) Hum 511, 512. Contemporary Developments in the Humanities (S)

Journalism

- (UO) J 341. Principles of Advertising (F)
 (UO) J 407. Seminar: Communications for Teachers—Survey of Journalism (W)
 (UO) J 407. Seminar: Industrial Editing (W)
 (UO) J 444. Advertising Problems (W)
 (UO) J 455. Supervision of School Publications (F)
 (UO) J 459. Publicity and Public Relations (S)

Landscape Architecture

- (OSU) LA 279. Home Ground Planning (W)
 (OSU) LA 290. Applied Landscape Design (S)
 (OSU) LA 326. Plant Materials (F)

Law Enforcement

- (PSC) LE 111. Police and Society (F)
 (PSC) LE 112. Organization and Administration of Law Enforcement Agencies (W)
 (PSC) LE 113. Elements of Law for Police Officers (S)
 (PSC) LE 211. Police Techniques I (F)
 (PSC) LE 212. Police Techniques II (W)
 (PSC) LE 213. Police Techniques III (S)

Librarianship

- (UO) Lib 486. Introduction to Cataloging and Classification (F)
- (UO) Lib 487. Cataloging and Classification (W)
- (UO) Lib 490. Children's Literature (F)
- (UO) Lib 493. Literature of the Humanities (S)
- (UO) Lib 496. The Library in the Modern Community (S)
- (UO) Lib 507. Seminar: Children's Literature (F)

Mathematics

- (GED) Mth 10. Elements of Algebra (FWS)
- (PSC) Mth 100. Intermediate Algebra (FWS)
- (PSC) Mth 101. College Algebra (FWS)
- (PSC) Mth 102. Trigonometry (WS)
- (PSC) Mth 103. Analytic Geometry (S)
- (PSC) Mth 111. Mathematics for Elementary Teachers (FWS)
- (PSC) Mth 207, 208, 209. Calculus (FWS)
- (PSC) Mth 331, 332. Differential Equations (FW)
- (UO) Mth 412, 413, 414. Introduction to Abstract Algebra (FWS)
- (OSU) Mth 421. Vector Analysis (S)
- (UO) Mth 425, 426, 427. Elements of Statistical Methods (FWS)
- (UO) Mth 431, 432, 433. Advanced Calculus (FWS)
- (OSU) Mth 591. Mathematics for High School Teachers: Arithmetic (F)
- (OSU) Mth 592. Mathematics for High School Teachers: Algebra (W)
- (OSU) Mth 593. Mathematics for High School Teachers: Geometry (S)

Music and Music Education

- (PSC) Mus 111, 112, 113. Music Theory I (FWS)
- (PSC) Mus 190. Applied Music (FWS)
- (PSC) Mus 196. Orchestra (FWS)
- (PSC) Mus 290. Applied Music (FWS)
- (UO) Mus 360, 361, 362. History of Music (FWS)
- (PSC) Mus 390. Applied Music (FWS)
- (PSC) Mus 396. Orchestra (FWS)
- (PSC) Mus 407. Seminar: English Diction for Singing (F)
- (PSC) Mus 490. Applied Music (FWS)
- (UO) MuE 407. Seminar: Music Education in the Junior High School (F)
- (UO) MuE 407. Seminar: Music Education in the Senior High School (W)

Oceanography

- (OSU) Oc 331. Introduction to Oceanography (W)
- (OSU) Oc 432. Physical Oceanography (F)
- (OSU) Oc 433. Currents and Water Masses (W)
- (OSU) Oc 434. Estuarine and Shoreline Processes (S)

Philosophy

- (PSC) Phl 201. Problems of Philosophy (FW)
- (PSC) Phl 202. Elementary Ethics (WS)
- (PSC) Phl 203. Elementary Logic (FS)
- (PSC) Phl 301, 302, 303. History of Philosophy (FWS)
- (OSU) Phl 460. Philosophy of Religion (W)

Physics

- (PSC) Ph 201, 202, 203. General Physics (FWS)
- (OSU) Ph 491, 492, 493. Meteorology (FWS)
- (OSU) Ph 520. Astronomy (F)

Political Science

- (PSC) PS 201, 202, 203. American Governments (FWS)
- (PSC) PS 320, 321. World Politics (FW)
- (PSC) PS 322. American Diplomacy (S)
- (PSC) PS 407. Seminar: Problems of American Politics (S)
- (PSC) PS 407. Seminar: The Church and the State (F)
- (PSC) PS 407. Seminar: People, Power, Politics (W)
- (PSC) PS 430, 431, 432. Political Theory: The Western Tradition (FWS)

Psychology

- (PSC) Psy 201, 202, 203. General Psychology (FWS)
- (PSC) Psy 311. Human Development (FWS)
- (PSC) Psy 318. Applied Psychology (S)
- (PSC) Psy 335. Counseling and Testing (W)
- (UO) Psy 407-507. Seminar: Advanced Techniques of Counseling Alcoholics for Clergy (W)
- (UO) Psy 407-507. Seminar: Understanding and Counseling the Alcoholic (FS)
- (OSU) Psy 411. Mental Hygiene (S)
- (UO) Psy 421, 422. Principles and Methods of Psychological Assessment (FW)
- (OSU) Psy 431. Industrial Psychology (W)
- (UO) Psy 450. Abnormal Psychology (S)
- (UO) Psy 460. Developmental Psychology I: Infancy and Childhood (W)
- (UO) Psy 461. Developmental Psychology II: Adolescence and Maturity (FWS)
- (OSU) Psy 472, 473, 474. Individual Differences (FWS)
- (OSU) Psy 480. Psychological Tests and Testing (S)
- (UO) Psy 507. Seminar: Personal Adjustment and Counseling (W)
- (OCE) Psy 519. Research Studies in Child Development (F)
- (OCE) Psy 520. Psychology of Learning (S)
- (UO) Psy 524, 525. Individual Intelligence Testing (FW)

Religion

- (OSU) R 407. Seminar: Religion in Contemporary Society (S)
- (OSU) R 463. Psychology of Religion (F)

Applied Science and Science

- (PSC) ASc 111, 112, 113. Introduction to Applied Science (FWS)
- (PSC) ASc 115, 116, 117. Graphics (FWS)
- (PSC) ASc 211, 212. Statics and Stress Analysis of Solids (FW)
- (PSC) ASc 213. Properties of Materials (S)
- (PSC) ASc 251, 252, 253. Electrical Fundamentals (FWS)
- (PSC) ASc 311, 312, 313. Dynamics of Matter (FWS)
- (PSC) Bi 201, 202. General Botany (FW)
- (PSC) Bi 204, 205, 206. General Zoology (FWS)
- (PSC) Bi 334. Systematic Botany (S)
- (UO) Bi 391, 392. Human Anatomy (FW)
- (UO) Bi 422. Introduction to Genetics (S)
- (PSC) Ch 104, 105, 106. General Chemistry (FWS)
- (OSU) Ch 430, 431, 432. Organic Chemistry (FWS)
- (OSU) Ch 448, 449. Colloidal Chemistry (FW)
- (OSU) Ch 482, 483. Thermodynamics (FW)
- (OSU) Ch 484. Electrochemistry (S)
- (PSC) GS 101, 102, 103. General Biology (FWS)
- (PSC) GS 104, 105, 106. Physical Science (FWS)
- (PSC) GS 311, 312, 313. Natural History of Oregon (FWS)
- (OSU) GS 508. Workshop: In-Service BSCS Biology (FWS)

- (OSU) GS 508. Workshop: In-Service CBA Chemistry (FWS)
 (OSU) GS 508. Workshop: In-Service Chemical Education Materials Study (FWS)
 (PSC) G 201, 202, 203. Geology (FWS)
 (PSC) G 204, 205, 206. Geology Laboratory (FWS)
 (UO) Geol 301, 302, 303. Geologic History of Life (FWS)
 (OSU) G 315, 316, 317. Mineralogy and Rock Study (FWS)
 (PSC) G 350. Rocks and Minerals (S)
 (PSC) G 351. Elements of Geology (F)
 (PSC) G 352. Geology of Oregon (W)
 (OCE) Sc 511. Contemporary Developments in the Sciences & Mathematics (F)
 (OSU) SEd 441, 442. Health Education (WF)
 (OSU) SEd 481. Alcohol Studies in School Curriculum (W)
 (OSU) SEd 507. Physical Growth and Development (S)

Social Science

- (OCE) SSc 492. Ideologies of the Twentieth Century (F)
 (OCE) SSc 511, 512. Contemporary Developments in the Social Sciences (W)
 (OCE) SSc 513. Social Problems in American Democracy (S)

Social Work and Sociology

- (UO) SW 507. Seminar: The Child in the Community (S)
 (UO) SW 507. Seminar: Personality of the Hard to Reach Individual I (FW)
 (UO) SW 507. Seminar: Personality of the Hard to Reach Individual II (S)
 (UO) SW 511, 512. Social Case Work (FW)
 (UO) SW 516, 517. Personality Development (FW)
 (UO) SW 572. Community Organization for Social Welfare (S)
 (PSC) Soc 204, 205, 206. General Sociology (FWS)
 (UO) Soc 309. American Society (F)
 (PSC) Soc 334, 335. Social Psychology (WS)
 (PSC) Soc 338. Marriage and the Family (FWS)
 (UO) Soc 407. Seminar: Non-Medical Problems in Illness (S)
 (UO) Soc 407. Seminar: Penological Systems (S)
 (UO) Soc 407. Seminar: Social Welfare Resources and Organization (S)
 (UO) Soc 416, 417. Criminology and Delinquency (FW)
 (UO) Soc 421. Social Change (F)
 (UO) Soc 438. Collective Behavior (W)
 (UO) Soc 440. Group Dynamics (S)

Speech and Speech Correction

- (PSC) Sp 111, 112, 113. Fundamentals of Speech
 Sp 111 (FWS)
 Sp 112 (WS)
 Sp 113 (S)
 (PSC) Sp 114. Speech Development (F)
 (UO) Sp 225. Public Speaking for Business and Professional Men and Women (FS)
 (PSC) Sp 322. Discussion (W)
 (PSC) Sp 370. Phonetics (F)
 (UO) Sp 371. Speech Science (W)
 (UO) Sp 481, 482, 483. Speech Pathology
 Sp 481 (W)
 Sp 482 (S)
 Sp 483 (FS)
 (UO) Sp 484, 485, 486. Clinical Speech Therapy (FS)
 (UO) Sp 489. Audiology (F)

- (UO) Sp 492. Voice and Speech for the Deaf (W)
 (OSU) Sp 493. Principles and Techniques of Speech Correction (W)
 (UO) Sp 507. Seminar: Psychological and Human Relations Aspects of
 Speech and Hearing Therapy (S)

Theater Arts

- (DCE) TA 27. Understanding Modern Theater (F)
 (DCE) TA 28. Drama and Contemporary Social Problems (W)
 (DCE) TA 29. Toy Theaters for Children, Parents and Teachers (S)

Counseling and Guidance Training Institute

An Academic Year Counseling and Guidance Training Institute, is offered by Portland Continuation Center, through contract with the U. S. Office of Education acting to implement Title 5b of the N.D.E.A. All work carries graduate credit and may be applied, if the student is accepted, to a Master's degree at Oregon State University or the University of Oregon. Enrollees are selected and admitted by special criteria and procedures. The Institute begins September 17, 1963, and continues for 38 weeks through June 5, 1964.

Information regarding the Institute may be obtained from Dr. Harold W. Bernard, Director, Counseling and Guidance Training Institute, 1633 S. W. Park, Portland 1, or call 226-6601, ext. 1160.

Available courses for the institute are outlined below. Course descriptions may be found in the catalogs of the authorizing institutions.

- Ed 409. **Practicum: Secondary-School Counseling.** (G) Hours to be arranged winter. (UO)
 Ed 461. **Psychology of Adolescence.** (G) 3 hours fall. (OSU)
 Ed 485. **Principles and Practices of Guidance Services.** (G) 3 hours fall. (OSU)
 Ed 486. **Occupational and Educational Information.** (G) 3 hours winter. (OSU)
 Ed 487. **Counseling Techniques.** (G) 3 hours spring. (OSU)
 Ed 488. **Educational and Vocational Guidance.** (G) 3 hours fall. (UO)
 Ed 491. **Social Education.** (G) 3 hours winter. (UO)
 Ed 505. **Reading and Conference.** Hours to be arranged spring. (OSU)
 Ed 505. **Reading and Conference.** Hours to be arranged spring. (UO)
 Ed 507. **Seminar: Self Evaluation Analysis.** Hours to be arranged spring. (OSU)
 Ed 507. **Seminar: Self Evaluation Analysis.** Hours to be arranged spring. (UO)
 Ed 509. **Practicum: Secondary-School Counseling.** Hours to be arranged spring. (UO)
 Ed 526. **High School Counseling.** 3 hours spring. (UO)
 Ed 528. **Group Testing in Schools and Colleges.** 3 hours winter. (UO)
 Ed 577. **Counselor Training: Group Procedures.** 3 hours fall. (OSU)
 Ed 588. **Supervised Counseling Techniques.** 3 hours spring. (OSU)
 Ed 589. **Organization and Administration of Guidance Services.** 3 hours spring. (OSU)
 Psy 421. **Principles and Methods of Psychological Assessment.** (g) 3 hours fall. (UO)
 Psy 441. **Group and Individual Differences.** (G) 3 hours fall. (UO)
 Psy 442. **Group and Individual Differences.** (G) 3 hours winter. (UO)
 Psy 449. **Occupational Choice and Psychology of Careers.** (G) 3 hours winter. (UO)
 Psy 461. **Developmental Psychology II: Adolescence and Maturity.** (g) 3 hours fall. (UO)

- Psy 472. Individual Differences. (g) 3 hours fall. (UO)
- Psy 473. Individual Differences. (g) 3 hours winter. (UO)
- Psy 524. Individual Intelligence Testing. 4 hours winter. (UO)
- Psy 525. Individual Intelligence Testing. 2 hours spring. (UO)
- St 421. Statistical Inference. (G) 3 hours winter. (OSU)

Gresham

- (UO) ArE 311, 312, 313. Art in the Elementary School (FWS)
- (OCE) Ed 410. Methods and Materials. Arithmetic (S)
- (PSC) Ed 435. Audio-Visual Aids (F)
- (UO) Ed 439. The Gifted Child (S)
- (OSU) Ed 468. Diagnostic and Remedial Techniques in Reading (F)
- (OSU) Ed 485. Principles and Practices of Guidance Services (F)
- (OSU) Ed 486. Occupational and Educational Information (W)
- (OSU) Ed 487. Counseling Techniques (S)
- (UO) Ed 508. Workshop: Applied School Law (W)
- (UO) Ed 508. Workshop: Review of Recent State Department Guide for Science in Grades 1-9 (F)
- (PSC) GS 104, 105, 106. Physical Science (FWS)
- (PSC) Geog 331. Geography of Asia (S)
- (PSC) Geog 426. Geography of Europe (W)
- (UO) Geog 464. Geography of South America (F)
- (PSC) Hst 201, 202, 203. History of the United States (FWS)
- (PSC) Mus 323. Choral Conducting (F)
- (PSC) Psy 201, 202. General Psychology (FW)
- (PSC) Psy 311. Human Development (S)
- (UO) Sp 225. Public Speaking for Business and Professional Men and Women (W)
- (PSC) Wr 111, 112, 113. English Composition (FWS)

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