

General Extension Division

BULLETIN

Correspondence Study

Department of State-Wide Services

Oregon State System of Higher Education

1953-54

General Extension Division
BULLETIN

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GENERAL EXTENSION DIVISION

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for

CORRESPONDENCE STUDY

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**Department of State-Wide Services
General Extension Division
Oregon State System of Higher Education
Eugene, Oregon**

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 federal survey of higher education in Oregon, includes all the state-supported institutions of higher learning. The several institutions are now elements in 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 the University of Oregon at Eugene, Oregon State College at Corvallis, the Oregon College of Education at Monmouth, the Southern Oregon College of Education at Ashland, and the Eastern Oregon College of Education at La Grande. The University of Oregon Medical School, the Portland State Extension Center, and the University of Oregon Dental School are located in Portland.

Each of the five institutions provides the general studies fundamental to a well-rounded education. At the three colleges of education general and professional studies are combined in the teacher-training curriculum; students who do not plan to become elementary-school teachers may devote their time exclusively to lower-division studies in the liberal arts and sciences or (at Southern Oregon and Eastern Oregon colleges of education) to approved lower-division programs in semiprofessional fields.

At the University and the State College two years of unspecialized work in liberal arts and sciences are provided on a parallel basis in the lower division. 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.

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, Eugene, Oregon.

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State Board of Higher Education

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Office of the State Board of Higher Education
Eugene, Oregon

Additions and Corrections

The following new courses are being offered:

Eng C 204. **American Literature.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Representative American literature from its beginning to the present. The three terms constitute a sequence but may be taken separately.

Texts: Taylor, *A History of American Letters*, American Book Co., 1936; Foerster and Charvat, *American Poetry and Prose*, (Shorter Edition), Houghton Mifflin Co., 1952.

Eng C 205. **American Literature.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00

Continuation of Eng C 204. Same texts.

Eng C 206. **American Literature.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Continuation of Eng C 205. Same texts, plus Duffey, *Modern American Literature*, Rinehart and Co., 1951.

Additions and Corrections

The following courses are no longer being offered:

ME C 363. Refrigeration and Cold Storage.

Wr C 113. English Composition—(Special).

Wr C 324. English Composition for Teachers.

Mth C 422. Differential Equations.

GS 311. Natural History of Oregon.

SS C 111. Stenography (Thomas).

SS C 111. Stenography (Gregg).*

SS C 112. Stenography (Gregg).*

SS C 113. Stenography (Gregg).*

Wr C 317. Versification.

Eng C 14 E. Elementary Commercial English.

The following courses are in process of revision and should be available for student use on or before January 1, 1954. Contact the General Extension Division for definite dates.

BA C 416, 417, 418. Business Law.

Wr C 214. Business English.

Ed C 460. Psychology of Infancy and Childhood.

Eng C 101, 102, 103. Survey of English Literature.

Eng C 201, 202, 203. Shakespeare.

Psy C 460. Psychology of Infancy and Childhood.

* Note: SS C 111, 112, 113 Stenography, (Simplified Gregg) are being retained as listed in the bulletin.

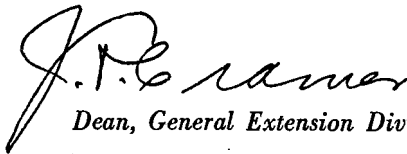
Dean's Message

Correspondence study is provided by the Oregon State System of Higher Education for people who find it impossible to attend a campus school. Courses are planned for those wishing to earn credit which may be applied toward a degree and for those wishing to continue their education for other reasons. It is possible to study at both college and high-school levels.

Throughout the years, the Office of Correspondence Study has served thousands of people from all walks of life and from every part of the world.

Correspondence courses are prepared by staff members of the University of Oregon, Oregon State College, and the colleges of education at Ashland, Monmouth, and La Grande. As far as possible, courses parallel campus offerings.

The Office of Correspondence Study provides students with the same academic excellence that is traditional with institutions of higher learning throughout the United States.

A handwritten signature in cursive script, appearing to read "J. R. E. Sawyer". The signature is written in dark ink and is positioned above the printed name of the Dean.

Dean, General Extension Division

General Information

Why does the Oregon State System of Higher Education offer correspondence courses?

Correspondence courses are designed for those who wish to continue their education under supervision but are not able to enroll as resident students. Some wish to earn undergraduate credit toward academic degrees or to complete professional requirements; others wish to complete their high-school work or meet college entrance requirements; many adults wish to study specific subjects for personal enjoyment and betterment without concern for credit. All these people are served by correspondence courses.

Courses are prepared and graded by members of the faculties of the institutions of the State System of Higher Education in close cooperation with the General Extension Division.

Are there any restrictions upon enrollment in correspondence study?

Any person of sufficient maturity and preparation to undertake a course may enroll. Students wishing credit must meet the requirements of the institution accepting this credit. Oregon State College and the University of Oregon will accept a maximum of sixty hours of credit earned by correspondence study; the colleges of education, a maximum of eighteen or twenty-four hours, depending upon whether the three- or four-year program is completed. No graduate credit is offered by correspondence study.

Any student wishing to enroll in correspondence work while attending college or high school as a resident student should secure the approval of his registrar or principal before making application for enrollment.

No student should enroll for a course to be applied toward spring graduation after April 1 of the year he intends to graduate.

A student should not enroll for more than one or two courses at a time and should register for each course in a sequence only after the preceding courses have been completed.

Students working for credit may not complete more than eight quarter hours during any period of three months, if they are regularly employed or are housewives who are able to give only spare time to study. Those giving their full time to correspondence study may complete a maximum of twelve quarter hours during any period of any twelve weeks.

How may I enroll for a correspondence course?

(1) If you wish credit, consult the registrar of the institution at which you wish to use the credit or the head of the organization to which you wish to submit the credit. This officer will be able to advise you as to selection of

the proper course or courses. Those wishing to earn high-school credit should consult the principal of the high school where they were formerly enrolled or the principal of the local high school.

(2) Fill out the application blank located on page 5 of this catalog and mail it with your check, money order, or bank draft for the fee to the General Extension Division, Eugene, Oregon.

How long will it take me to complete a course?

This depends upon the amount of time you are able to devote to your study. Upon enrollment, the complete course will be mailed to you. *Lesson reports should be sent to the instructor one at a time as they are completed, so that one may benefit from the comments and corrections in working out subsequent lessons. Instructors may refuse to accept lesson reports that indicate the student is hurrying his work unduly.*

The original enrollment period is one year. If a student has been seriously ill or in attendance as a resident student during this period, an extension equivalent to the length of time lost due to these reasons will be granted upon request. Students are permitted to renew their enrollment for one year by paying a renewal fee of \$2.00. One renewal only is permitted. Maximum time permitted on any one course is two years.

Examinations must be taken within six weeks after the return of the last graded lesson report, if the student wishes credit for his course. Students not living near a General Extension Division office will take their examinations under the supervision of an approved proctor. Instructions for completing arrangements for an examination are included with each course. The General Extension Division reserves the right to select the proctor.

What is the cost of correspondence courses?

Fee for each course is listed in the line which gives course numbers and title. The nonresident fee is waived for service personnel. Fees for courses offered by the General Extension Division correspond to the fees in effect on the campuses of the state institutions of higher learning.

The student supplies his own texts and other equipment. If he wishes, he may order these from the University of Oregon Cooperative Store, Eugene, Oregon. Text prices are furnished with the course outline or upon request. Please address inquiries concerning text prices to the General Extension Division.

Under what conditions are refunds made?

Fees will be returned to the student if his application is not accepted. *After a student has been enrolled in a course, press of other work or unwillingness to carry on the course will not be considered adequate cause for refund.* Serious illness that may prevent completion of the course within the registration period or enrollment in a similar course as part of a resident program in an educational institution will be regarded as sufficient reason for a request for refund of fees, provided the request is made to the General Extension

Division within three months of the date of registration. When refunds are made, \$2.00 of the fee for each course will be retained to cover the cost of registration. No course fee will be refunded after a student has submitted lesson reports.

May I transfer to another course?

A student may transfer from one course to another any time during the first six months of his enrollment. Fee for this service is \$1.00 plus any necessary fee adjustment and \$1.00 for each assignment which has been corrected in the original course. Transfer of enrollment to another person will be permitted only when the person to whom the course is to be transferred is a member of the student's immediate family. In such a transfer, the regulations listed above will apply.

May service personnel enroll for correspondence courses through USAFI?

Yes. The General Extension Division has a correspondence study contract with the Armed Forces Institute. Under this contract, the majority of the courses offered in the correspondence study catalog are available to men and women on active duty with the armed forces under a program whereby the government pays the cost of instruction. The students pay course enrollment fees and the cost of the texts. For complete information, write General Extension Division, Eugene, Oregon, or consult the unit education officer.

How is correspondence study graded?

The quality of student work is measured by a system of grades consisting of: A; B; C; D; failure, F; incomplete, Inc. The grade of A denotes exceptional accomplishment; B, superior; C, average; D, inferior.

May a friend or tutor help me with my correspondence lessons?

Yes. However, evidence of submitting the work of another or copying lesson which have already been graded, instead of doing the original work yourself, will mean that a grade of "F" will be automatically given for the course.

College Correspondence Courses

The number before the title of a course indicates whether the course carries upper- or lower-division credit. Numbers from 1 to 299 are lower division; those 300 and above are upper division. Numbers following the course title represent: (1) quarter hours (q.h.) of credit; (2) number of lesson assignments (a.); and (3) the enrollment fee.

Agriculture

AEc C 311. Farm Accounting. 3 q.h. 16 a \$15.00 for Oregon residents; others, \$20.00.

Discussion of the various uses of farm records and the different methods of record keeping. The problems of inventorying, depreciation, and recording of receipts and expenses are presented. Major attention given to income tax accounting; problems worked in both the cash and accrual systems of income tax reporting. Records kept are studied to determine what the farmer actually made for the year as well as some of the reasons for the income.

Text: Hyer, *Farm Record Keeping*, Oregon State College. Available at the Oregon State College Cooperative Book Store, Corvallis, Oregon.

Anthropology

Anth C 317. The American Indian. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course is the first section of a three-course sequence dealing with Indian life in North, Central, and South America before white contact; the study will include contemporary Indian life where groups still survive. While each section may be taken independently, the sections or their equivalent must be taken in their proper sequence.

Texts: There is no one text available concerning the American Indian. Student should have access to the following books. They need not all be purchased. Bennett and Bird, *Andean Cultural History*, American Museum of Natural History, Handbook Series, No. 15, New York, 1949; Goddard, *Indians of the Northwest Coast*, American Museum of Natural History, Handbook Series, No. 10, New York, 1934; Vaillant, *Aztecs of Mexico*, Penguin Book Series; Wormington, *Ancient Man of North America*, Colorado Museum of Natural History, Popular Series No. 4, 1949.

Anth C 318. The American Indian. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Anth C 317.

Texts: Goddard, *Indians of the Southwest*, American Museum of Natural History, Handbook Series, No. 2, New York, 1931.

Architecture and Allied Arts

Architecture

- AA C 178. **House Planning and Architectural Drawing.** 3 q.h. 16 . \$15.00 for Oregon residents; others, \$20.00.

Small-house construction, detail drawing and architectural drafting, with particular reference to the needs of students majoring in home economics and industrial arts. Application of art principles to architectural and period styles. Emphasis upon needs of potential home owner and new trends in building. Service course for non-majors.

Texts: Dunham and Thalberg, *Planning Your Home for Better Living*, McGraw-Hill, 1945; Pickering, *Shelter for Living*, John Wiley & Sons, 1941.

- AA C 369. **Theory of Structures I.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Application of mathematics to the design of building structures. Wood and steel construction; beams, columns, trusses, and simple frames; the relationship of structural design to architectural design.

Text: Leigh and Mangold, *Practical Mechanics and Strength of Materials*, 3rd ed., McGraw-Hill, 1940; *Manual for Steel Construction*, American Institute of Steel Construction.

Art

- AA C 298. **Sketching.** 2 q.h. 12a. \$12.00 for Oregon residents; others, \$17.00.

Sketching from models to develop ability to observe clearly and record accurately. Offered especially for nonmajor students who have had no previous training in sketching or drawing.

Astronomy

- Ph C 104. **Descriptive Astronomy.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Attention is given to laws governing stars, planets, sun, moon, comets, and nebulae; study of the appearance and names of constellations and mythology connected with them. Observations are required. Field glasses will be helpful but are not required. Prerequisite: a knowledge of elementary algebra, plane and solid geometry.

Texts: Fath, *Elements of Astronomy*, McGraw-Hill, 1944; McKready, *A Beginner's Guide to the Stars*, G. P. Putnam's Sons, 1924.

- Ph C 106. **Descriptive Astronomy.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Ph C 104.

Aviation

See page 42.

Biology

- Sc C 101. **Biological Science Survey.** 3 or 4 q.h. 16 a. \$15.00 or \$20.00 for Oregon residents; others, \$20.00 or \$25.00.

An elementary study of the fundamental principles of biology as they apply to both plants and animals. Each section has laboratory exercises, which may be omitted if a compound microscope is not available. The course without laboratory exercises does not satisfy the science group requirement or the requirements of the colleges of education in Oregon.

Text: Hardin, *Biology*, W. H. Freeman & Co., San Francisco, 1949. Students wishing to enroll for the course with laboratory assignments will be furnished with a kit containing necessary supplies. A deposit of \$8.00 for this kit should accompany the fee; upon return of the kit, the deposit will be refunded.

Sc C 102. **Biological Science Survey.** 3 or 4 q.h. 16 a. \$15.00 or \$20.00 for Oregon residents; others, \$20.00 or \$25.00.

Same text as for Sc C 101.

Sc C 103. **Biological Science Survey.** 3 or 4 q.h. 16 a. \$15.00 or \$20.00 for Oregon residents; others, \$20.00 or \$25.00.

Same text as for Sc C 101 and 102.

Z C 150. **Bird Study.** 3 q.h. 19 a. \$16.50 for Oregon residents; others, \$21.50.

For description, see page 42.

Bot C 211. **Elementary Botany.** 3 q.h. 16 a. \$15.00 for Oregon residents; others \$20.00.

A study of life processes as shown in the plant. A small magnifying glass is required. A service course for nonscience majors.

Text: Fuller, *The Plant World*, Henry Holt & Co., 1951. A magnifying glass of about 10X power and good definition will be needed.

Bi C 312. **Human Physiology.** 3 q.h. 16 a. \$15.00 for Oregon residents, others, \$20.00.

Required for majors in physical education, elective for others qualified.

Text: Best and Taylor, *The Living Body*, Henry Holt & Co., 1952.

Business Administration *

DA C 111. **Constructive Accounting.** 4 q.h. 22 a. \$20.00 for Oregon residents; others, \$25.00.

An introduction to the field of accounting and business administration. The student who completes this course satisfactorily should have little difficulty in following the routine of almost any bookkeeping system.

Texts: Noble, *Accounting Principles* (5th ed.), South-Western Pub. Co., San Francisco, 1949; Working Papers for Chapters 1 to 16 of *Accounting Principles* (Stock No. A 631); Practice Set, No. 1 (Stock No. A 633).

BA C 112. **Constructive Accounting.** 4 q.h. 22 a. \$20.00 for Oregon residents; others, \$25.00.

A continuation of BA C 111.

Texts: Noble, *Accounting Principles* (same as for BA 111); Working Papers for Chapters 1 to 16 of *Accounting Principles* (Stock No. A 631); Working Papers for Chapters 17 to 32 of *Accounting Principles* (Stock A 362); Practice Set No. 1 (Stock No. A 633) and Practice Set No. 2 (Stock No. A 635) for use with *Accounting Principles*.

* See also Secretarial Science, page 39.

- BA C 113. **Constructive Accounting.** 4 q.h. 22 a. \$20.00 for Oregon residents; others, \$25.00.

A continuation of BA C 112.

Texts: Noble, *Accounting Principles* (same as for BA C 111); Working Papers for Chapters 17 to 32 of *Accounting Principles*; (Stock No. A 632); Practice Set No. 2 (Stock No. 3 635) for use with *Accounting Principles*.

- BA C 312. **Principles of Cost Accounting.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

The basic principles of cost accounting; departmentalization; expense allocation. Designed primarily for persons interested in general accounting. Prerequisite: BA C 111, 112, 113, or equivalent.

Text: Specthrie, *Industrial Accounting, Brief Course*, Prentice-Hall, 1947; work book to accompany text.

- BA C 339. **Principles of Advertising.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A study of the theory and practice of advertising. For beginners.

Text: Kleppner, *Advertising Procedure*, Prentice-Hall, 1950.

- BA C 416. **Business Law.** 4 q.h. 22 a. \$20.00 for Oregon residents; others, \$25.00.

Introduction to law; persons, torts, contracts, and agency are considered.

Text: Spencer, *A Textbook of Law and Business*, McGraw-Hill, 1938.

- BA C 417. **Business Law.** 4 q.h. 22 a. \$20.00 for Oregon residents; others, \$25.00.

The subjects include private property, law of finance, risk and risk bearing.

Same text as for BA C 416.

- BA C 418. **Business Law.** 4 q.h. 22 a. \$20.00 for Oregon residents; others, \$25.00.

A consideration of the law of personal property and the law of business organizations. Same text as for BA C 417.

- BA C 425. **Real Estate Fundamentals.** 2 q.h. 12 a. \$10.00 for Oregon residents; others, \$15.00.

A study of problems relating to the purchase, transfer, lease, and financing of land and buildings; home building; site selection; city structure as it affects real-property values. Designed to aid those preparing for the examination for a state license.

Text: Benson and North, *Real Estate Principles and Practice*, Prentice-Hall, 1947.

- BA C 436. **Retail Merchandising.** 4 q.h. 21 a. \$20.00 for Oregon residents; others, \$25.00.

Retail policies and problems. Stock-control systems, buying, methods of sales promotion, plant operation, personnel, credit, turnovers, pricing, expense classifications, and distribution.

Texts: Comish, *Small Scale Retailing* (2nd ed.), Binford & Mort, Portland, 1948; Barker and Anderson, *Principles of Retailing* (2nd ed.), McGraw-Hill, 1941.

- BA C 487. **Advanced Cost Accounting.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Intensive study for those desiring to enter the field of cost accounting or other professional accounting work. Principles and cost procedures, with special application to practical problems. Prerequisites: BA C 111, 112, 113 and BA C 312 or equivalents.

Text: Langar, *Cost Accounting*, Walton Publishing Co., 1947.

BA C 488. **Advanced Cost Accounting.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of BA C 487. Prerequisite: BA C 487. Same text as for BA C 487.

Economics

Ec C 201. **Principles of Economics.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A study of principles that underlie production, consumption, money, banking, demand, supply, prices and price functions, prices and markets.

Texts: Burns, Neal, and Watson, *Modern Economics*, Harcourt, Brace & Co., 1948; Kiekhofner, *Economic Principles, Problems and Policies* (3rd ed.), D. Appleton-Century Co., 1946.

Ec C 202. **Principles of Economics.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course is a continuation of Ec C 201 and is concerned with wages, interest, rent, profits, business cycles, controls, business organization and finance, labor and labor relations, regulation of industry, the relation of government to the economic system. Same texts as for Ec C 201.

Ec C 203. **Principles of Economics.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Ec C 202 and a study of government spending and its effect; the tax system, national and local; international economics; personal distribution and uses of income; social security; types of economic systems. Same texts as for Ec C 201.

Ec C 440. **International Economics and Finance (Foreign Trade).** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Theory of international trade; nature and effects of government interference in the form of bounties, subsidies, import and export duties; commercial policies of the more important nations.

Text: Towle, *International Trade and Commercial Policy*, Harper & Bros., 1947.

Education

Ed C 311. **Secondary Education in American Life.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Development and present status of secondary education as an American institution; social and psychological bases; objectives, functions, programs, curricula, and courses; personnel work and other responsibilities of teachers. Prerequisite: Psy 201.

Text: Alexander and Saylor, *Secondary Education*, Rinehart and Co., Inc., 1950.

Ed C 312. **Educational Psychology.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A study of some of the factors that promote growth through learning; principles of learning, of motivation, of mental health; the psychological theory of teaching procedures.

Texts: Skinner, *Educational Psychology*, 3rd ed., Prentice-Hall, Inc., 1951; Trow, *Educational Psychology*, 2nd ed., Houghton Mifflin Co., 1950.

Ed C 316. **Oregon School Law and System of Education.** 2 q.h. 12 a. \$10.00 for Oregon residents; others, \$15.00.

A study of the Oregon school system and the laws on which it is based; problems of Oregon schools and plans proposed for their solution; the course of study, and trends of educational development in the state.

Texts: *Oregon School Laws, 1946, 1947, 1949, and 1951 Supplement*, State Superintendent of Public Instruction, Salem, Oregon, \$1.25. Oregon Blue Book (latest ed.), Secretary of State, Salem, Oregon, \$1.00.

- Ed C 351. **Health Education.** 2 q.h. 12 a. \$10.00 for Oregon residents; others, \$15.00.

Teaching health education with emphasis on the health knowledge, health attitudes and health habits of school children, and the development of a health-service program.

Texts: NEA-AMA, *Health Education*, National Education Association of the United States, 1948 ed; Turner, *School Health and Health Education*, C. V. Mosby Co., St. Louis, 1947.

- Ed C 354. **Introduction to Education.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A brief discussion of the meaning, function, and scope of education; an orientation survey of the educational field.

Texts: Reeder, *A First Course in Education*, Macmillan Co., 1950; De Young, *Introduction to American Public Education*. McGraw-Hill, 1950.

- Ed C 407. **Parent-Teacher Organization.** 2 q.h. 10 a. \$10.00 for Oregon residents; others, \$15.00.

Presents problems, techniques, and projects of the parent-teacher movement. Emphasis placed on what the home expects of the school; what the school expects of the home; what the child needs of both; the role of the PTA in fostering close and effective home-school-community co-operation. Current source materials and parent-teacher practices and programs will be examined. Special problems facing both beginning and experienced teachers will be studied.

Text: Overstreet, Harry, and Bonare, *Where Children Come First*, National Congress of Parents and Teachers, 1949. (May be ordered from Oregon Congress of Parents and Teachers, 411 Education Center Building, 220 Southwest Alder Street, Portland 4, Oregon.)

- Ed C 422. **Curriculum Construction.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Place of the curriculum in the modern school; trends in curriculum development. Suitable for group study. May be used as an elective only in education.

Text: Smith, Stanley, and Shores, *Fundamentals of Curriculum Development*, World Book Company, 1950.

- Ed C 440. **History of Education.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A general review of the growth and development of education in relation to the civilization of the times; emphasis on development of educational philosophies.

Texts: Ulich, *History of Educational Thought*, American Book Co., 1945; Ulich, *Three Thousand Years of Educational Wisdom: Selections from Great Documents*, Harvard University Press, 1950.

- Ed C 455. **History of American Education.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

History of educators whose practices and philosophies function in our modern educational system. May be used as an elective only in education.

Texts: Edwards and Richey, *The School in the American Social Order*, Houghton Mifflin Co., 1947.

- Ed C 458. **Advanced Primary Education.** 2 q.h. 12 a. \$10.00 for Oregon residents; others, \$15.00.

This course covers the social, emotional, intellectual, and physical growth and development of young children from the prenatal through the ninth-year level. It presents general and specific educational and psychological principles and their application to actual schoolroom problems as they apply to the primary child. It deals with the primary curriculum as a whole and with the teaching of the various specific areas, such as reading, phonics, science, social science, language, spelling, writing, and arithmetic.

Texts: Betts, *Foundations of Reading Instruction*, American Book Co., 1950; Lamoreaux and Lee, *Learning to Read Through Experience*, D. Appleton-Century Co., 1950; Schuele, *Differences Which Matter*, Von Brockman-Jones, 1947.

- Ed C 459. **Advanced Intermediate and Upper-Grade Education.** 2 q.h. 12 a. \$10.00 for Oregon residents; others, \$15.00.

An application of general educational and psychological principles to actual problems in intermediate and upper-grade teaching growing out of the student's experience. Emphasis will be given to the content subjects which are taught in the elementary schools of Oregon, such as science, social studies (history, geography, civics), and literature.

Texts: Brueckners and Grossnickle, *How to Make Arithmetic Meaningful*, Winston Co., 1947; Lee and Lee, *The Child and His Curriculum* (rev. ed.), D. Appleton-Century Co., 1950; Witty, *Reading in the Modern Education*, D. C. Heath & Co., 1949.

- Ed C 460. **Psychology of Childhood.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

The facts and principles of child behavior and development from conception to adolescence.

Texts: Thompson, *Child Psychology*, Houghton Mifflin, 1951; Dennis, *Readings in Child Psychology*, Prentice-Hall, 1951.

- Ed C 461. **Adolescence: Growth and Development of the Individual.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

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.

Text: Harrocks, *Psychology of Adolescence*, Houghton Mifflin Co., 1951.

Engineering

- GE C 111. **Engineering Drawing.** 2 q.h. 10 a. \$10.00 for Oregon residents; others, \$15.00.

Training in the use of drafting instruments and in the art of lettering; introduction to elementary principles of orthographic projection. May be taken by students who have had no college training in mechanical drawing. A list of instruments and materials for the course will be sent on request.

Text: Willey, Wanless, Holcomb, *Engineering Drawing Manual*, Oregon State College Cooperative Association, Corvallis, Oregon.

GE C 112. Engineering Drawing. 2 q.h. 11 a. \$10.00 for Oregon residents; others, \$15.00.

Continuation of orthographic projection; methods of dimensioning and checking drawings; use of auxiliary planes of projection; section drawings; isometric drawings; working drawings of machine parts; tracings from drawings. Prerequisite: GE C 111 or equivalent. Same text as for GE C 111.

GE C 113. Engineering Drawing. 2 q.h. 11 a. \$10.00 for Oregon residents; others, \$15.00.

A continuation of GE C 112. Freehand orthographic and perspective sketching; practical application of drawing principles to working drawings; use of charts and diagrams. Prerequisite: GE C 112. Same text as for GE C 111 and 112.

ME C 212. Mechanics (Statics). 3 q.h. 16 a. \$15.00 for Oregon residents; others \$20.00.

Forces and force systems with reference to the equilibrium of rigid bodies; simple framed structures; methods of finding centers of gravity and moments of inertia and their practical application; numerous problems having engineering application. Prerequisite: Differential and Integral Calculus (Mth C 201, 202).

Text: Seely and Ensign, *Analytical Mechanics for Engineers* (3rd rev. ed.), John Wiley & Sons, 1948.

ME C 213. Mechanics (Dynamics). 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Continuation of ME C 212. Principles and problems in kinetics; force as a factor causing motion; work, energy, friction, and impact studied and illustrated by means of numerous problems. Prerequisite: Calculus (Mth C 201, 202) and ME C 212. Same text as for ME C 212.

ME C 363. Refrigeration and Cold Storage. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Principles and practice of refrigeration, with special reference to commercial refrigeration. Material in the course is directed more particularly to those who install and service the larger units.

Texts: Norman Sharpe, *Refrigerating Principles and Practices*, McGraw-Hill, 1949, *Instructions for the Operation and Maintenance of Refrigeration Plants*, U.S. Navy, Ship's Bureau, 1947, Superintendent of Documents, Washington, D.C.; Martin, *Refrigeration Applications to Certain Oregon Industries*, Circular Series, No. 5, Engineering Experiment Station, Oregon State College, Corvallis (free to citizens of Oregon, 25 cents to others).

English and Literature

Written English

Manuscript Criticism. No credit.

Manuscripts of full-length novels, biographies, travels, and similar literary undertakings will be read by an experienced critic and will receive whatever criticism seems to be indicated by the nature of the undertaking. The fee for this service will be \$35.00 for manuscripts not over 75,000 words. Application for manuscript criticism should be made before the manuscript is submitted and should indicate its nature and length. Manuscripts will not be accepted for criticism unless they are typed. The fee and return postage should be sent with the manuscript.

Eng C 1 X. Grammar, Punctuation, and Usage Review. No credit. 24 a. \$15.00 for Oregon residents; others, \$20.00.

For mature persons who feel the need of a thorough review of all facts and principles of grammar that have practical application in relation to punctuation and good usage.

Text: Tressler, *Grammar in Action* (rev. ed.), D. C. Heath & Co., 1938.

Wr C 111. English Composition. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course, together with Eng C 112 and 113, makes up a year sequence in fundamentals of composition and rhetoric equivalent to the usual freshman requirements in college English. Students wishing to take Wr C 111, 112, and 113 for credit must make a satisfactory score on the English Placement Test. Arrangements to take this test may be made through the Office of Correspondence Study, General Extension Division. There is no charge for this service.

Texts: Babcock, Horn, English, *Essentials of Composition for College Students*, American Book Co., 1939; *Good Reading*, National Council of Teachers of English. An approved collegiate dictionary is also required.

Wr C 112. English Composition. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Wr C 111. Same texts.

Wr C 113. English Composition. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Wr C 112. Same texts.

Wr C 113. English Composition—(Special). 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This is an alternate course for the third section of English Composition intended especially for the student engaged in a particular type of business or profession who may wish to make use of materials which his work provides. The course will stress practical forms; the outline, the summary, definition, factual narrative, objective description, and the organization of reports. It may be taken separately or as the third section of the regular course.

Texts: Robbins and Parker, *Advanced Exposition* (rev. ed.), Prentice-Hall, 1948; a good dictionary.

Wr C 211. Advanced Writing. 3 q.h. 16 a. for Oregon residents; others, \$20.00.

The study and practice of general magazine writing—sketches, essays, narratives, criticism, etc. Prerequisite: Wr C 111, 112, 113 or equivalent training.

Text: Frederick and Ward, *Reading for Writing* (3rd ed.), F. S. Crofts & Co., 1946.

Wr C 212. Advanced Writing. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Wr C 211. Same text.

Wr C 213. Advanced Writing. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Wr C 212. Same text.

Wr C 214. Business English. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A complete review and study of modern practices in business correspondence.

Text: Aurner, *Effective Communication in Business*, 3rd ed., Southwestern Publishing Co., 1950.

- Wr C 213. **Short-Story Writing.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Critical study of the structure of typical short stories; attention to plot construction, character portrayal, introductions, dialogues, and conclusions. A course for beginners in creative writing. A knowledge of English fundamentals is essential.

Text: Bement and Taylor, *The Fabric of Fiction*, Harcourt, Brace & Co., 1946.

- Wr C 214. **Short-Story Writing.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Designed to enable students to try out their abilities in creative writing. Training in English fundamentals and in creative writing equivalent to that given in Wr C 111, 112, 113 and Wr C 213 is required.

Texts: Kempton, *The Short Story*, Harvard University Press, 1947; Cerf, *Modern American Short Story*, The World Publishing Company, 1948.

- Wr C 215. **Short-Story Writing.** 3 q.h. \$19.00 for Oregon residents; others, \$24.00.

An advanced course calling for 25,000 words of manuscript of satisfactory quality. The student submits manuscripts as if for market rather than as "lessons." Expert criticism given. Prerequisites: completion of Wr C 213 and Wr C 214 with proficiency, or submission of short-story manuscripts of merit. Reading will be suggested by instructor.

- Wr C 317. **Versification.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00. For description see page 44.

- Wr C 324. **English Composition for Teachers.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

For those expecting to teach English in high schools. Prerequisite: Wr C 111, 112, 113 or equivalent.

Texts: Mirrielees, *Teaching Composition and Literature* (rev. ed.), Harcourt, Brace & Co., 1943; Hodges, *The Harbrace Handbook of English*, Harcourt, Brace & Co., 1941.

Literature

- Eng C 101. **Survey of English Literature.** 3 q.h. 20 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Eng C 102, 103 comprise a study of significant features in English literature from *Beowulf* to the present. For college freshmen. The first section covers the period from *Beowulf* to Milton.

Text: Snyder and Martin, *A Book of English Literature*, Vol. I, Macmillan Co., 1947.

- Eng C 102. **Survey of English Literature.** 3 q.h. 20 a. \$15.00 for Oregon residents; others, \$20.00.

Covers the period from Milton to Byron.

Texts: Snyder and Martin, *A Book of English Literature*, Vol. I, Macmillan Co., 1945; a collection of Wordsworth's poems, such as the Oxford standard edition, or Vol. II of *A Book of English Literature* by Snyder and Martin.

- Eng C 103. **Survey of English Literature.** 3 q.h. 20 a. \$15.00 for Oregon residents; others, \$20.00.

Covers the period from Byron to Hardy.

Text: Snyder and Martin, *A Book of English Literature*, Vol. II, Macmillan Co., 1942.

Eng C 201. Shakespeare. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

In this course and Eng C 202, 203, twenty plays by Shakespeare are studied in detail and several other plays are assigned as extra reading. The three sections meet requirements for English majors and for those who wish to fulfill a norm in English.

Text: Nielson and Hill, *Shakespeare's Complete Plays and Poems*, New Cambridge Edition, Houghton Mifflin Co.

Eng C 202. Shakespeare. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Eng C 201. Same text.

Eng C 203. Shakespeare. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Continuation of Eng 202. Same text.

Eng C 261. Survey of American Literature. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

American literature from its beginning to the present day. Two consecutive terms will satisfy the high-school teaching-field requirement in English.

Text: Blair, Hornberger, Setewart (ed.), *Literature of the United States*, Scott Foresman, single vol. edition.

Eng C 262. Survey of American Literature. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Continuation of Eng C 261.

Eng C 263. Survey of American Literature. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Continuation of Eng C 262.

Eng C 388. Children's Literature.

For description see page 30.

Eng C 393. American Novel. (Contemporary). 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A survey of the contemporary American scene as it is found in the modern novel in America. Study plans for forty-three novels are offered, from which the student must complete sixteen. Books may be secured from a local library.

Geography

Geog C 105. Introductory Geography. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Geog C 106, 107 constitute a general introduction to geography. Section I deals with physical geography.

Text: Finch and Trewartha, *Elements of Geography*, McGraw-Hill, 1949.

Geog C 106. Introductory Geography. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This section deals with world resources.

Text: Klimm, Starkey, and Hall, *Introductory Economic Geography*, Harcourt, Brace & Co., 1940.

Geog C 107. Introductory Geography. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This section deals with human and regional geography.

Text: Van Valkenberg, *Elements of Political Geography*, Prentice-Hall, 1949.

- Geog C 201. **Regional Economic Geography.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A study of the major types of production and their geographic background.

Texts: Dicken, *Regional Economic Geography*, D. C. Heath & Co., 1949; Goode's *School Atlas*, Rand McNally & Co., latest edition; Goode's *School Atlas Outline Maps* (selected by Raymond E. Murphy), Rand McNally & Co.

- Geog C 323. **Geography of the Pacific Northwest.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A study of the land forms, climates, population, resources, products, and lines of communication of the Pacific Northwest.

Texts: Dicken, *Oregon Geography*, Edwards Bros., 1950; Freeman, Martin, and Smith, *The Pacific Northwest*, John Wiley & Sons, 1942.

- Geog C 324. **Geography of the Pacific Northwest.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Geog C 323.

Text: Freeman, Martin, and Smith, *The Pacific Northwest*, John Wiley & Sons, 1942.

- Geog C 325. **Geography of the Pacific Northwest.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Geog C 324.

Text: Same as for Geog C 324.

- Geog C 329. **Geography of North America.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Physiography and resources of the continent, and social reaction as influenced by these.

Texts: Smith and Phillips, *North America*, Harcourt, Brace & Co., 1942. Raisz, *Landforms of the United States*, Harvard University Press, 1939.

- Geog C 330. **Geography of South America.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Physical, economic, and human geography of the continent.

Texts: James, *Latin America*, Odyssey Press, 1950; Smith, *Physiographic Diagram of South America*, Geographical Press, Columbia University, 1935.

- Geog C 429. **Geography of North America.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Physiography and resources of the continent, and social reaction as influenced by these.

Texts: Smith and Phillips, *North America*, Harcourt, Brace & Co., 1942. Raisz, *Landforms of the United States*, Harvard University Press, 1939.

- Geog C 430. **Geography of South America.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Physical, economic, and human geography of the continent.

Texts: James, *Latin America*, Odyssey Press, 1942; Smith, *Physiographic Diagram of South America*, Geographical Press, Columbia University, 1935.

Geology

Geol C 101. General Geology. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Processes of nature affecting the surface of the earth; formation of economic geologic deposits; the main events in the history of the earth.

Text: Longwell, Knopf, and Flint, *Physical Geology* (3rd ed.), John Wiley & Sons, 1949.

Geol C 102. General Geology. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Geol C 101.

Text: Same text as for Geol C 101.

Geol C 103. General Geology. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Geol C 102.

Text: Dunbar, *Historical Geology*, John Wiley & Sons, 1949.

Health Education

HE C 361. Community Health Problems. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Designed primarily for health teachers in the public schools. Basic community health problems important in health instruction. Prerequisite: junior standing in health and physical education, or consent of instructor.

Text: Paterson, *Foundations of Community Health Education*, 4th ed., McGraw-Hill, 1950.

HE C 362. Personal Health Problems. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

For health teachers in the public schools. Hygienic care of the body and other personal health problems important in health instruction. Prerequisite: junior standing in health and physical education, or consent of instructor.

Text: Meredith, *Hygiene*, Blakiston Co., Philadelphia, 1949.

HE C 363. Communicable and Noncommunicable Diseases. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Nature, prevention, and control of common communicable diseases, considered in relation to health instruction in public schools. Prerequisite: junior standing in science or health and physical education.

Text: Top, *Communicable Disease Handbook*, 2nd ed., Mosby Publishing Co.

History

Hst C 101. History of Western Civilization. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Hst C 102, 103 constitute a review of the great civilizations of the world from ancient times to the present. Hst C 101 covers the period from the Stone Age to about 1500 A.D.

Text: Burns, *Western Civilization* (3rd ed.), W. W. Norton & Co., 1949.

Hst C 102. History of Western Civilization. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Hst C 101 to the early nineteenth century.

Texts: Burns, *Western Civilization* (3rd ed.), W. W. Norton & Co., 1949; Stearns, *Pageant of Europe*, Harcourt, Brace & Co., 1948.

Hst C 103. *History of Western Civilization*. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Hst C 102 to recent times. Same texts as for Hst C 102.

Hst C 201. *History of the United States*. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Hst C 202, 203 constitute a general survey of American history from colonial times to the present. The first section deals with the discovery and settlement of North America and the development of the United States to 1850.

Texts: Hicks, *The Federal Union*, Houghton Mifflin Co., 1948; Beard, *The Rise of American Civilization* (one-volume ed.), Macmillan Co., 1935.

Hst C 202. *History of the United States*. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Covers the period from 1850 to 1898.

Texts: Hicks, *The Federal Union*, Houghton Mifflin Co., 1948; Beard, *The Rise of American Civilization* (one-volume ed.), Macmillan Co., 1935; Hicks, *The American Nation*, Houghton Mifflin Co., 1949.

Hst C 203. *History of the United States*. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Covers the period from 1898 to present.

Texts: Hicks, *The American Nation*, Houghton Mifflin Co., 1949; Beard, *The Rise of American Civilization* (one-volume ed.), 1935.

Hst C 207. *English History*. 3 q.h. 16 a. \$15.00 for Oregon residents; others \$20.00.

This course and Hst C 208 and 209 constitute a general survey, covering political, economic, social, intellectual, and religious developments from earliest times to the present. Hst C 207 ends with the beginning of the seventeenth century.

Texts: Hall and Albion, *A History of England and the British Empire* (2d ed.), Gin & Co., 1946; Trevelyan, *English Social History*, Longmans, Green & Co., 1942.

Hst C 208. *English History*. 3 q.h. 16 a. \$15.00 for Oregon residents, others, \$20.00.

A continuation of Hst C 207, covering the period from the beginning of the seventeenth century to the close of the Napoleonic War in 1815. Same texts as for Hst C 207.

Hst C 209. *English History*. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Hst C 208, covering the period from 1815 to the present. Same texts as for Hst 207 and 208.

Hst C 341. *Europe since 1815*. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Hst C 342, 343 cover the history of Europe from 1789 to modern times. Section I is concerned with the history of the chief nations of Europe from 1815 to 1870.

Texts: Hall and Davis, *The Course of Europe Since Waterloo* (2d ed.), D. Appleton-Century Co., 1947.

Hst C 342. *Europe since 1815*. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A study of the international relations of European states and their internal history from 1870 to 1919. Same text as for Hst C 341.

Hst C 343. Europe since 1815. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course is a continuation of Hst C 342 and covers the period from 1919 to the present.

Texts: Hall and Davis, *The Course of Europe Since Waterloo*, D. Appleton-Century Co., 1947; Chambers, Grant, and Bayley, *This Age of Conflict, A Contemporary World History 1914-1943*, Harcourt, Brace & Co., 1943.

Hst C 350. Hispanic America. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Hst C 351, 352 deal with South America and those countries other than the United States that border on the Gulf of Mexico and the Caribbean Sea. Section I covers the colonial period, from about 1500 to 1800 A.D. Prerequisite: Hst C 201, 202, 203 or equivalent preparation in history of the United States.

Text: Wilgus, *The Development of Hispanic America*, Farrar & Rhinehart, 1947.

Hst C 351. Hispanic America. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A study of the Caribbean area, with special emphasis on the relationship of the United States to this region. Prerequisite: same as for Hst C 350.

Texts: Wilgus, *The Development of Hispanic America*, Farrar & Rhinehart, 1947; Rippy, *Historical Evolution of Hispanic America* (text ed.), F. S. Crofts & Co., 1945.

Hst C 352. Hispanic America. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of the study of the Caribbean area with emphasis on the Monroe Doctrine and American imperialism, and on the development of South American republics and their international relations, particularly with the United States, as exemplified by Pan-Americanism, and with the continent of Europe through the medium of Pan-Hispanism. Prerequisite: the same as for Hst C 350. Same texts as for Hst 351.

Hst C 337. History of Oregon. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Detailed study of the building of civilization in the Pacific Northwest. This course meets the state requirement for teachers.

Texts: Pollard, *Oregon and the Pacific Northwest*, Binford & Mort, Portland, 1946; Winther, *The Great Northwest*, Alfred A. Knopf, 1950; Oregon Blue Book (latest edition available), which may be secured from the Secretary of State, Salem, Oregon, for \$1.00.

Hst C 378. American History and Government. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A study of the development of the American nation, with emphasis on its political and social concepts. Attention is given to the factual and causal 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.

Texts: Hicks, *The Federal Union*, Houghton Mifflin Co., 1948; Beard, *The Rise of American Civilization* (one-volume ed.), Macmillan Co., 1935.

Hst C 379. American History and Government. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Hst C 378.

Texts: Hicks, *The Federal Union*, Houghton Mifflin Co., 1948; Beard, *The Rise of American Civilization* (one-volume ed.), Macmillan Co., 1935; Hicks, *The American Nation*, Houghton Mifflin Co., 1949.

Hst C 391. Far East in Modern Times. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

The three sections of this sequence cover the history of China and Japan, and to a lesser degree some smaller East Asiatic nations, from the mid-nineteenth century to 1941. The emphasis is on political history and diplomatic relations, although some attention is given to social and cultural developments. The impact of the West, and the interests of occidental powers, particularly the United States, are given special consideration. Section I covers the period just before the opening of China to treaty relations, before 1839, until the end of the Boxer uprising in 1900. It deals with Japanese and Korean history in the same period, as well as with Russia in Asia.

Text: Vinacke, *History of the Far East in Modern Times* (4th ed.), F. S. Crofts & Co., 1950.

Hst C 392. Far East in Modern Times. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This section covers the period from 1900 until 1921 in the foreign relations of China and Japan, Chinese domestic history from 1900 to 1926, and Japanese history to 1931. It also deals with Korean history from 1905 to 1941, and the history of the Philippines from 1898 to 1941. Same text as for Hst C 391.

Hst C 393. Far East in Modern Times. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This section covers East Asiatic diplomatic history from the Washington Conference in 1921 to the outbreak of the general Asiatic war in 1941. Emphasis is placed on American policy as well as on Japanese activity on the Asiatic continent. One assignment deals with Russia in the Far East. Same text as for Hst C 392.

Hst C 473. American Foreign Relations. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Hst C 474 constitute a study of the relations of the United States with other powers and the development of American foreign policies.

Text: Bailey, *A Diplomatic History of the American People* (4th ed.), F. S. Crofts & Co., 1950.

Hst C 474. American Foreign Relations. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Hst C 473. Same text as for Hst C 473.

Home Economics

CT C 217. Clothing Selection. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Elective for students in other schools. To develop good taste in dress and to give an appreciation in selection and purchasing of clothing from standpoint of beauty, health, and economy.

Text: Ryan and Phillips, *Clothes for You*, D. Appleton-Century Co., 1947.

- FN C 225. Nutrition.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.
Nutritive value of foods from the standpoint of newer scientific investigations; selection of an optimal diet for health; present-day problems in nutrition; recent trends in American dietary habits.
Texts: Sherman and Lanford, *Essentials of Nutrition*, Macmillan Co., 1950; Monsch and Harper, *Feeding Babies and Their Families*, John Wiley & Sons, 1943.
- FL C 225. Child Care.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.
Growth, development, and care of the infant and young child. For students not in home economics degree curricula.
Texts: Faegre and Anderson, *Child Care and Training* (7th ed.), University of Minnesota Press, 1947; Jersild, *Child Psychology* (3rd ed.), Prentice-Hall, 1947; Spock, Benjamin, *The Pocket Book of Baby and Child Care*, The Pocket Books, Inc., Rockefeller Center, New York, 1950; Zabriskie, *Mother and Baby Care in Pictures*, J. B. Lippincott Co., 1946.
- CT C 331. Home Furnishing.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.
A course for those who wish to buy and use household furnishings to the best advantage. It is concerned with those elements of decoration which must be considered in the average home rather than with historic periods. Must be preceded by a year of art to meet requirements of majors in the School of Home Economics. May be taken as an elective.
Texts: Lewis, *Decorating the Home*, Macmillan Co., 1947; *Floor Coverings*, Better Buymanship Bulletin No. 10, and *Furniture*, Better Buymanship Bulletin No. 26, Household Finance Corporation, 919 North Michigan Ave., Chicago, 10 cents each.
- HAd C 340. Management in Family Living.** 4 q.h. 22 a. \$20.00 for Oregon residents; others, \$25.00.
Management in relation to goals, resources, practices and problems of family living under conditions of democratic government, industrial production, and market economy.
Texts: Fitzsimmons, *The Management of Family Resources*, W. H. Freeman & Co., 1950; Gross, *Home Management in Theory and Practice*, F. S. Crofts & Co., 1947; Nickell and Dorsey, *Management in Family Living* (2nd ed.), John Wiley & Sons, Inc., 1950.
- CT C 350. Consumer Buying in Clothing and Textiles.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.
An analysis of problems as well as aids in purchasing clothing and textiles from the consumer's point of view. Prerequisites for students majoring in Home Economics at Oregon State College only: CT 212, CT 250.
Texts: Coles, *The Consumer Buyer and the Market*, John Wiley & Sons, 1938; Reid, *Consumers and the Market*, F. S. Crofts & Co., 1942.

Journalism

See page 42.

Latin

- CL C 4. First-Year Latin.** 4 q.h. 32 a. \$20.00 for Oregon residents; others, \$25.00.

The sequence begins with the fundamentals of Latin and closes with the reading of two books on Caesar's *Gallic Wars*.

Text: Hettich and Maitland, *Latin Fundamentals*, Prentice-Hall, 1940.

- CL C 5. **First-Year Latin.** 4 q.h. 32 a. \$20.00 for Oregon residents; others, \$25.00. Continuation of CL C 4.

Texts: Hettich and Maitland, *Latin Fundamentals*, Prentice-Hall; *Caesar's Gallic Wars* (ed. by Gunnison and Harley), Silver Burdett Co.; Allen and Greenough, *New Latin Grammar*, Ginn & Co.

Library Methods

- Lib C 382. **Book Selection and Evaluation.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Designed to provide a general survey of the best books and authors, old and new, in various fields of writing, and to assist the student in interpreting and applying principles and standards for judging them. Consideration is given to the best aids in book selection. Practice in book reviewing and annotation.

Texts: Haines, *Living With Books*, Columbia University Press, 1950; Douglas, *Teacher-Librarian's Handbook* (latest edition), American Library Association; high school teachers will also need *Basic Book Collection for High Schools*, latest edition, elementary teachers will need *Basic Book Collection for Elementary Schools*, latest edition.

- Lib C 384. **School Library Administration.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Planned for school administrators as well as librarians; particular emphasis on the place of the library in the instructional program. Problems of support and control; housing and equipment; standards; evaluation; objectives.

Texts: Fargo, *The Library in the School*, 4th ed., American Library Association, 1947; Douglas, *The Teacher-Librarian's Handbook*, 2nd ed., American Library Association, 1949.

- Lib C 386. **Organization of Library Materials.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Study of the library card catalog and practice in cataloging books for a small library.

Text: Akers, *Simple Library Cataloging*, 3d ed., American Library Association, 1944.

- Lib C 388. **Books and Related Materials for Young People.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Primarily a reading course based on materials suitable for junior and senior high-school level. Study of reading interests and curricular needs; criteria for evaluating materials; selection aids; devices for encouraging reading. Emphasis on the library as an information laboratory.

Text: Haines, *Living with Books*, Columbia University Press, 1950.

- Eng C 388. **Children's Literature.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A survey course intended to give an understanding and appreciation of the best literature for children of all ages; of special interest to parents and to teachers in charge of school libraries.

Text: Arbuthnot, *Children and Books*, Scott, Foreman and Co., 1947.

Literature

See English and Literature, page 20.

Mathematics

Courses in Refresher Mathematics described on page 43.

Mth C 10. Elements of Algebra. 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

For students who have had less than one year of elementary algebra. May not be taken for credit after completion of more advanced college courses in mathematics.

Text: Peterson, *Intermediate Algebra for College Students*. Harper & Bros., 1942.

Mth C 20. Elements of Plane and Solid Geometry. 2 q.h. 12 a. \$10.00 for Oregon residents; others, \$15.00.

This course and Mth C 21 cover the essentials of plane geometry for students with less than one year of geometry in high school.

Text: Welchons and Krickenberg, *Plane Geometry* (rev. ed.), Ginn & Co., 1943.

Mth C 21. Elements of Plane and Solid Geometry. 2 q.h. 12 a. \$10.00 for Oregon residents; others, \$15.00.

A continuation of Mth C 20. Same text.

Mth C 22. Elements of Plane and Solid Geometry. 2 q.h. 12 a. \$10.00 for Oregon residents; others, \$15.00.

Essentials of solid geometry for students who did not have it in high school.

Text: Welchons and Krickenberg, *Solid Geometry* (rev. ed.), Ginn & Co., 1943.

Mth C 100. Intermediate Algebra. 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

The course is built about the essential technique of algebra; the functional core of algebra, comprising the formula, equation, and graph; the solution of problems. Prerequisite: one year of high-school algebra.

Text: Betz, *Algebra for Today, Second course*, Ginn & Co., 1946.

Mth C 101. Elementary Analysis I. 4 q.h. 22 a. \$20.00 for Oregon residents; others, \$25.00.

Section I of a three-section sequence offering a unified treatment of college algebra, plane trigonometry, analytical geometry, and the simpler portions of the differential and integral calculus. Prerequisites: three semesters of high-school algebra or Mth C 100.

Text: Milne and Davis, *Introductory College Mathematics* (rev. ed.), Ginn & Co., 1935 or 1941.

Mth C 102. Elementary Analysis II. 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

A continuation of Mth C 101. Same text.

Mth C 103. Elementary Analysis III. 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

A continuation of Mth C 102. Same text.

Mth C 105. College Algebra. 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

A standard course in college algebra. The arrangement and classification of the material and the manner of treatment are based upon the function concept. Prerequisite: Mth C 100 or three semesters of high-school algebra.

Text: Hart, *College Algebra* (3rd ed.), D. C. Heath & Co., 1947.

Mth C 106. Plane Trigonometry. 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

The standard college course, emphasizing the theory of trigonometric functions as well as their applications in solving triangles. Prerequisites: Mth C 100, Mth C 101 or Mth C 105, and plane geometry.

Text: Rosenback, Whitman, Mockovitz, *Plane Trigonometry*, with tables, Ginn & Co., 1943.

Mth C 108. Mathematics of Finance. 4 q.h. 22 a. \$20.00 for Oregon residents; others, \$25.00.

Simple and compound interest and discount, annuities, amortization of debts, sinking funds, bonds, depreciation, elements of life insurance and other topics related to business. A required course in most schools of business administration. Prerequisite: college algebra.

Text: Hart, *The Mathematics of Investment*, with tables (rev. ed.), D. C. Heath & Co., 1946.

Mth C 200. Analytical Geometry. 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Applications of algebra to geometry. A thorough treatment of the straight line, conic sections, and related topics. This course, together with Mth C 105 and Mth C 106, may be substituted for Elementary Analysis. Prerequisites: plane geometry, Mth C 105, and Mth C 106.

Text: Love, *Elements of Analytic Geometry*, The Macmillan Company, 1952.

Mth C 201. Differential and Integral Calculus. 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Section I of a three-section sequence designed to lay a thorough foundation for all advanced work in mathematics and its application. Essentially the same course as that given under the same numbers at Oregon State College and the University of Oregon. Prerequisites: Mth C 101, 102, 103 or equivalent.

Text: Granville, Smith, Longley, *Elements of the Differential and Integral Calculus*, Ginn & Co., 1941.

Mth C 202. Differential and Integral Calculus. 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

A continuation of Mth C 201. Same text.

Mth C 203. Differential and Integral Calculus. 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

A continuation of Mth C 202. Same text.

Mth C 314. Advanced College Algebra. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

An extension of the work in Mth C 105. Prerequisite: one year of college mathematics.

Text: Hart, *College Algebra* (3rd ed.), D. C. Heath & Co., 1947.

Mth C 316. Solid Analytical Geometry. 3 q.h. 17 a. \$15.00 for Oregon residents; others, \$20.00.

An analytical treatment of curves and surfaces in three-dimensional space. Prerequisite: Mth C 200 and Mth C 201 or Mth C 101, 102, 103.

Text: Olmstead, *Solid Analytic Geometry*, Appleton-Century Mathematics Series, 1947.

Mth C 412. Theory of Equations. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Methods of solution of algebraic equations and related topics. Prerequisite: Mth C 314, or Mth C 101, 102, 103, or calculus.

Text: Dickson, *New First Course in the Theory of Equations*, John Wiley & Sons, 1939.

Mth C 425. Elements of Statistical Methods. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Tabulation and graphical presentation of statistical data; descriptive statistics, and correlation. Prerequisite: one year of high-school algebra or equivalent.

Text: Walker, *Elementary Statistical Methods*, Henry Holt & Co., 1949.

Mth C 426. Elements of Statistical Methods. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Design of experiments, sampling theory, tests of significance, analysis of variance. This course is a continuation of Mth C 325.

Text: Lindquist, *Statistical Analysis of Educational Experiments*, Houghton Mifflin Co., 1940.

Mth C 421. Differential Equations. 3 q.h. 20 a. \$15.00 for Oregon residents; others, \$20.00.

Section I of a two-section sequence designed to give practical instruction in the solution of ordinary and partial differential equations. A foundation course essential for advanced work in engineering, mathematics, physics, and chemistry.

Text: Murray, *Differential Equations*, Longmans, Green & Co., 1934.

Mth C 422. Differential Equations. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Mth C 421. Same text.

Modern Languages

French

RL C 1. First-Year French. (First term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Texts: Micks and Longi, *Fundamental French*, Oxford University Press, 1940; Beattie, *A French Reader for Beginners*, Dryden Press, 1949.

RL C 2. First-Year French. (Second term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Same texts as for RL C 1.

RL C 3. First-Year French. (Third term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Texts: Micks and Longi, *Fundamental French*, Oxford University Press, 1940; Beattie, *A French Reader for Beginners*, Dryden Press, 1937; Skinner and Brady, *Vingt Contes Divers*, Dryden Press, 1946.

RL C 101. Second-Year French. (First term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Texts: Pargment, *Trente-Trois Contes et Nouvelles*, Henry Holt & Co., 1929; Barton and Surich, *Simplified French Review Grammar and Composition*, Crofts & Co., 1941.

RL C 102. Second-Year French. (Second term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Texts: Barton and Surich, *Simplified French Review Grammar and Composition*, Crofts & Co., 1941; Pierre Loti, *Pecheur d'Islande*, Henry Holt & Co., 1930.

RL C 103. Second-Year French. (Third term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Texts: Barton and Surich, *Simplified French Review Grammar and Composition*, Crofts & Co., 1941; Alfred de Musset, *Les Trois Comedies*, D. C. Heath & Co.

RL C 311. French Literature. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Section I of a three-section sequence in third-year French. Reading of masterpieces of various periods; a general review of French literature. Not open to students who have had RL 201, 202, 203 in residence. Prerequisite: 2 years of college French.

Texts: Lanson and Tuffrau, *Manuel d'Histoire de la Litterature Francaise*, Heath & Co., 1938; and *Nouvelle Anthologie Francaise* (ed. by Schinz, Robert and Giroud), Harcourt, Brace & Co., 1950.

RL C 312. French Literature. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00

A continuation of RL C 312. Same texts.

RL C 313. French Literature. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of RL C 312. Same texts.

German

GL C 1. First-Year German. (First term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

This course and GL C 2 and 3 provide a thorough grammatical foundation and an elementary reading knowledge of German. The three courses or their equivalent must be taken in sequence. GL C 1 covers the first 18 chapters of the text.

Text: Chiles and Wiehr, *First Book in German* (rev. ed.), Ginn & Co., 1948.

GL C 2. First-Year German. (Second term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

A continuation of GL C 1, covering the last 15 chapters of the text and a reader.

Texts: Chiles and Wiehr, *First Book in German* (rev. ed.), Ginn & Co., 1948; Wiens, *Bilderlesebuch für Anfänger* (1942 ed.), Henry Holt & Co.

GL C 3. First-Year German. (Third term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

A continuation of GL C 2. It also includes a review of all the basic principles of German grammar and may thus be used as a review of first-year German by those who have had no contact with the language for some time.

Texts: Roseler, *German in Review*, Henry Holt & Co., 1948; Appelt and Funke, *Modern German Prose*, D. C. Heath & Co., 1936.

GL C 101. Second-Year German. (First term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

This course and GL C 5 and 6 are a three-term sequence covering the second year of college German. They include a review of grammar and composition and the reading of modern German authors. Prerequisite: the satisfactory completion of GL C 1, 2, 3 or equivalent knowledge of German.

Texts: Werfel, *Jacobowsky und de Oberst*, F. S. Crofts & Co., 1947; Mann, *Ein Tag aus dem Schulleben Hanno Buddenbrooks*, Henry Holt & Co., 1948; Cochran, *A Practical German Review Grammar*, Prentice-Hall, 1947.

FL C 102. Second-Year German. (Second term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

A continuation of GL C 4, with emphasis on reading ability for both content and translation.

Texts: van Eerden and Ulmer, *Deutsche Novellen*, Henry Holt & Co., 1948; Cochran, *A Practical German Review Grammar*, Prentice-Hall, 1947.

GL C 103. Second-Year German. (Third term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

A continuation of GL C 5, with emphasis upon reading ability. Also, a simple compositional style will be developed.

Texts: Goethe, *Egmont* (ed. by Max Winkler), Ginn & Co., 1948; Schiller, *Wilhelm Tell* (ed. by Bert Jon Vos), Ginn & Co., 1948; Cochran, *A Practical German Review Grammar*, Prentice-Hall, 1947.

Spanish

RL C 11. First-Year Spanish. (First term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Use of records optional.

Texts: Crow, *Spanish American Life*, Henry Holt and Company, 1941; LaGrone, *Conversational Spanish*, Revised, Henry Holt and Company, 1948.

RL C 12. First-Year Spanish. (Second term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Continuation of RL C 11.

RL C 13. First-Year Spanish. (Third term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Continuation of RL C 12.

RL C 11. First-Year Spanish. (Conversational) (First term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Much attention is given to correct pronunciation and use of the two phonograph records which have been prepared to supplement the lessons is required. Price of the records is not included in the fee.

Text: Keniston, *Learning Spanish*, Henry Holt & Co., 1941.

RL C 12. First-Year Spanish. (Conversational) (Second term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Texts: Keniston, *Learning Spanish*, Henry Holt & Co., 1941; Keniston, *Reading Spanish*, Henry Holt & Co., 1940.

- RL C 13. **First-Year Spanish.** (Conversational) (Third term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Texts: Keniston, *Learning Spanish*, Henry Holt & Co., 1941; Keniston, *Reading Spanish*, Henry Holt & Co., 1940; Keniston, *A Standard List of Spanish Words and Idioms*.

- RL C 107. **Second-Year Spanish.** (First term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Intensive oral and written exercises designed to help the student acquire accurate and fluent use of Spanish. Reading of representative authors.

Texts: Please contact General Extension Division.

- RL C 108. **Second-Year Spanish.** (Second term) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Continuation of RL C 14.

- RL C 109. **Second-Year Spanish.** (Third term.) 4 q.h. 24 a. \$20.00 for Oregon residents; others, \$25.00.

Continuation of RL C 15.

Natural History

- GS 311. **Natural History of Oregon.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

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.

Texts: Bibliography provided.

Physics

- *Ph C 201. **General Physics.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Ph C 202 and 203 cover the equivalent of classwork in first-year college physics. Ph C 201 is a study of mechanics and properties of matter. Prerequisite: mathematics equivalent to Mth C 105 and Mth C 106 or equivalent preparation.

Text: Foley's *College Physics* (revised by J. L. Glathart, 4th ed.), Blakiston Co., 1947.

- *Ph C 202. **General Physics.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Ph C 201, covering sound, heat, and approximately one-half of the material on magnetism and electricity. Same text as for Ph C 201.

- *Ph C 203. **General Physics.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Ph C 202, completing the work on electricity and covering light and modern physics, including the quantum theory and atomic structure; X-rays and radioactivity; an introduction to nuclear physics and atomic energy. Same text as for Ph C 201 and 202.

* For Ph C 201, 202, 203. 1 additional term hour of credit, a total of 3 term hours may be earned by the completion of laboratory work in residence at either Oregon State College or the University of Oregon during summer session or during a regular school year. Arrangements for the laboratory work should be made in advance through the General Extension Division.

Ph C 490. **Basic Meteorology.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

An introduction to the science of meteorology dealing with the physical processes underlying observed weather phenomena. Designed for persons who wish to study the subject for general information and enjoyment and for those interested in preparing themselves for the civil-defense examinations for the lower ranks in the service of the U. S. Weather Bureau. Students interested particularly in aviation meteorology are referred to Aviation CAC 312-313. Prerequisites: elementary algebra, plane geometry, and elementary physics.

Texts: Blair, *Weather Elements* (rev. ed.), Prentice-Hall, 1948; *Manual of Cloud Forms and Code for States of the Sky*, Circular S, 2nd ed., 1949. U. S. Weather Bureau Bulletin No. 1249, Washington 25, D.C.; *Educational Series* (Collection of eight publications, charts, and maps by U. S. Weather Bureau) Catalog No. C 30.2: Ed. 8, Superintendent of Documents, Washington 25, D.C.

Ph C 491. **Physical Meteorology.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A course primarily for persons engaged in weather work as well as for those seeking professional opportunities in meteorology. It is designed to give a fundamental understanding of the physical processes of the atmosphere and of the various techniques employed by the weather analyst and forecaster. The theory is developed for the general gas law, humidity measurements, atmospheric pressure and height, adiabatic processes, thermodynamic diagrams, gradient wind, thermal wind, and slope of frontal surfaces. Practical problems are used to illustrate applications of the theory. Prerequisites: Ph C 490 or equivalent work in meteorology, college physics, algebra, elementary trigonometry, and some familiarity with the notation of calculus.

Text: Byers, *General Meteorology*, 1944.

Ph C 492. **Introduction to Modern Meteorology.** (Weather Analysis and Forecasting.) 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A study of the meteorological factors which must be considered by the forecaster in preparing a forecast. Included are the topics: air-masses; atmospheric stability; development of the wave cyclone; frontal structure; analysis of surface and upper level weather charts; the tools of the forecaster; preparation and verification of sample forecasts. Prerequisites: Ph C 491 or the equivalent thereof.

Texts: Byers, *General Meteorology*, 1944; Pulk and Murphy, *Workbook for Weather Forecasting*; Circular S, 2nd ed., 1949, U.S.W.B. Bul. No. 1249, Superintendent of Documents, Washington 25, D.C.

Physiology

Bi C 312. **Human Physiology.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

For description see page 15.

Political Science

PS C 1 X. **Preparation for Citizenship.** No credit. 21 a. \$3.50.

See page 42.

PS C 201. **American Governments.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

National Government.

Texts: Dimock and Dimock, *American Government in Action*, (Rev. ed.), Rinehart, 1951. Bishop and Hendel, *Basic Issues of American Democracy*, (2nd ed.), Appleton, Century, Crofts, 1951.

PS C 202. **American Governments.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of PS C 201.

PS C 203. **American Governments.** 3 q.h. 18 a. \$15.00 for Oregon residents; others, \$20.00.

State and local governments.

Texts: Macdonald, *American State Government and Administration*, Thomas Y. Crowell Company, 1950; Christensen and Kirkpatrick, *The People, Politics, and the Politicians*, Henry Holt & Co., 1950; *Oregon Blue Book*, Secretary of State, Salem, Oregon.

Psychology

Psy C 201. **General Psychology.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course is the first of a three-course sequence in psychology. The first two courses cover the principles of psychology; the third is the psychology of adjustment. The three together constitute the first-year work in psychology and provide students with a scientific basis for understanding their own behavior and that of others.

Texts: Munn, *Psychology: The Fundamentals of Human Adjustment*, Houghton Mifflin Co., 1946; Munn, *Students' Manual* to accompany *Psychology*; and Valentine, *Experimental Foundations of General Psychology* (3rd ed.), Farrar and Wickens, 1949.

Psy C 202. **General Psychology.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Psy C 201. Same texts.

Psy C 204. **Psychology of Adjustment.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

The nature and origins of differences in personality; means of making desired changes. Prerequisites: Psy 201 and 202.

Text: Maslow and Mittelman, *The Principles of Abnormal Psychology*, (rev. ed.), Harper Bros., 1951; White, *The Abnormal Personality*, The Ronald Press Co., 1948.

Psy C 411. **Psychology of Infancy and Childhood.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A study of growth of behavior during infancy, childhood, and adolescence, and an analysis of the decline of abilities with maturity and senescence. The development and decline of perception, emotion, intelligence, motor skill, language, and social behavior receive special attention. Prerequisite: Psy C 201, 202. Not open to students who have completed Ed 460.

Text: Thompson, *Child Psychology*, Houghton Mifflin, 1951; Dennis, *Readings in Child Psychology*, Prentice-Hall, 1951.

Psy C 412. **Psychology of Adolescence.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Study of the behavior changes during adolescence. Not open to students who have completed Ed 461.

Text: Harrocks, *Psychology of Adolescence*, Houghton Mifflin Co., 1951

Psy C 450. **Abnormal Psychology**. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Various forms of unusual behavior, including anxiety states, hysteria, hypnotic phenomena, and psychoses. Normal motives and adjustment mechanisms as they are exaggerated in the so-called neurotic person.

Text: Saul, *Emotional Maturity; the Development and Dynamics of Personality*, Lippincott, 1947.

Secretarial Science*

SS C 111. **Stenography** (Gregg). 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course and SS C 112, 113 cover the entire theory of Gregg shorthand. If the student does the practice suggested in the assignments throughout these three courses, at their completion he should be able to take dictation at a fair rate of speed. Letters for dictation are included in the last course. These three courses may be taken independently, but they must be taken in their proper sequence.

Texts: Frick and Vietti, *Talk and Take Gregg Shorthand*, Oregon State College Cooperative Association, Corvallis, Ore., 1945; Beers and Scott, *Fundamental Drills in Gregg Shorthand*, Gregg Pub., 1932.

SS C 111. **Stenography** (Thomas). 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

The theory of Thomas shorthand covered, with practical applications of theory principles in sentence and letter dictation. For beginners only.

Text: Frick, Vietti, Thomas, *Talk and Take Thomas Natural Shorthand* (2nd ed.), Prentice-Hall, 1944; Thomas, *Thomas Natural Shorthand* (2nd ed.), Prentice-Hall, 1942.

SS C 112. **Stenography** (Gregg). 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of SS C 111. Same texts.

SS C 113. **Stenography** (Gregg). 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of SS C 112. Same texts.

SS C 111. **Stenography** (Simplified Gregg). 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course and the sequence courses SS C 112 and 113 use the Simplified Gregg theory.

Texts: Gregg, Leslie, and Zoubeck, *Gregg Shorthand Manual Simplified*, McGraw-Hill Book Co.; Gregg, Leslie, and Zoubeck, *Most Used Shorthand Words and Phrases*, McGraw-Hill Book Co.; Young, *Directed Homework in Gregg Shorthand* (Simplified ed.), McGraw-Hill Book Co.

SS C 112. **Stenography** (Simplified Gregg). 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of SS C 111. Same texts.

* See also Business Administration, page 15.

SS C 113. **Stenography** (Simplified Gregg). 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of SS C 112. Same texts.

SS C 121. **Typing**. 2 q.h. 12 a. \$10.00 for Oregon residents; others, \$15.00.

This course and SS C 122, 123 cover the theory and practice of touch typing. The keyboard, speed and accuracy drills, introduction to business letters. Students who have had one year of typing in high school may not take SS C 121 for credit.

Text: Lessenberry, *College Typewriting*, with personal problems (4th ed.), South-western Pub. Co., 1947.

SS C 122. **Typing**. 2 q.h. 12 a. \$10.00 for Oregon residents; others, \$15.00.

A continuation of SS C 121. More work on letters, speed emphasis, improvement of stroking skill, tabulating, and manuscript typing.

Text: Lessenberry, *College Typewriting*, with personal problems (4th ed.), South-western Pub. Co., 1947, and Workbooks I and II.

SS C 123. **Typing**. 2 q.h. 12 a. \$10.00 for Oregon residents; others, \$15.00.

A continuation of SS C 122. Office forms, legal documents, application letters, personal typewriting.

Text: Lessenberry, *College Typewriting*, with personal problems (4th ed.), South-western Pub. Co., 1947, and Workbook III.

SS C 422. **Office Organization and Management**. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A study of the field of management as it pertains to the office and its activities in relation to other phases of the business. Instruction begins with the development of elementary office routines, and progresses to more complicated problems of planning and layouts, and the selection and training of office personnel. Considerable emphasis is placed upon office management in relation to small or moderate-size offices. Provides practical training for both office worker and office manager or supervisor.

Text: McDonald, *Office Management* (3rd ed.), Prentice-Hall, 1947.

Sociology

Soc C 201. **Sociology**. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Analysis of social organization and culture; human nature; social changes and movements as affected by culture; biological and physical environmental factors; a survey of the various social problems as well as the methods of investigation.

Texts: Ogburn and Nimkoff, *Sociology*, Houghton Mifflin Co., 1950; Wilson, Logan, and Kolb, *Sociological Analysis*, Harcourt, Brace, & Co., 1950.

Soc C 202. **Sociology**. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Continuation of Soc C 201. Same texts.

Soc C 203. **Sociology**. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Continuation of Soc C 202. Same texts.

Soc C 204. **General Sociology**. 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Analysis of social organization and culture; social changes and movements as affected by culture and by biological and physical environmental factors. This course and Soc C 205, or their equivalent, are prerequisite to advanced courses in sociology.

Texts: Ogburn and Nimkoff, *Sociology*, Houghton Mifflin Co., 1950; Wilson, Logan, and Kolb, *Sociological Analysis*, Harcourt, Brace, & Co., 1950.

Soc C 205. **General Sociology.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Soc C 204. Same texts.

Soc C 206. **General Sociology.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Soc C 204 and 205.

Text: Elliott and Merrill, *Social Disorganization*, 3rd ed., Harper and Brothers, New York, 1950.

Soc C 338. **Marriage and the Family.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A course designed to give the student an understanding of the institution of marriage and the family, with emphasis upon the functions of the family in modern social life. Prerequisite: Soc C 204, 205, or Soc 211, or equivalent.

Text: Nimkoff, *Marriage and the Family*, Houghton Mifflin Co., 1950.

Soc C 415. **Criminology and Penology.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

An analysis of the nature of the phenomenon of crime, with specific reference to the causative factors involved, and criticism of present attitudes toward crime and the criminal. Prerequisite: Soc C 204, 205, or Soc 211, or equivalent.

Texts: Sutherland, *Principles of Criminology* (3rd rev. ed.), J. B. Lippincott Co., 1947; Gilin, *Criminology* (3rd ed.), D. Appleton-Century Co., 1947. Other books required may be borrowed from libraries.

Special Service Courses

The following courses are offered through the General Extension Division to meet needs of special groups of students and are not designed for teachers who are meeting certification requirements of the Oregon State Department of Education.

Aviation

CA C 312-313. **Elementary Civilian Pilot Training—Meteorology.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

Intended for aviation ground school instructors, applicants for CAA pilot licenses and others primarily interested in meteorology as it pertains to aviation. Basic concepts of meteorology are explained with a minimum of mathematics. Applications are made to problems involving fog, icing, turbulence, thunderstorms, and general flight planning. Teletype weather reports, weather maps and upper air charts are interpreted. The course is kept continuously up-to-date in terms of teletype codes, weather map symbols, and other practices of civil airways weather services.

Text: Haynes, *Meteorology for Pilots*, Civil Aeronautics Bulletin No. 25.

Bird Study

Z C 150. **Bird Study.** 3 q.h. 19 a. \$16.50 for Oregon residents; others, \$21.50.

A combined reading and laboratory course, emphasizing interesting facts connected with the biology of birds, their characteristics and habits.

Text: Peterson, *Field Guide to Western Birds*, Houghton Mifflin Co., 1941.

Citizenship

PS C 1 X. **Preparation for Citizenship.** No credit. 21 a. \$3.50.

The purpose of this course is to assist candidates for naturalization who cannot attend regularly organized classes to prepare for their citizenship examination. It is planned for those who have a fair knowledge of English.

Text: Federal Textbook on Citizenship, *Our Constitution and Government* (simplified ed.); the text is sent with the lesson outlines.

Journalism

J C 111. **Elementary Journalism.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course is the first of a three-course sequence designed for beginners in journalism, whether students or newspaper workers. The whole field of journalism is surveyed, with the greatest emphasis on the gathering and writing of news; intended to be of practical aid to anyone lacking experience in newspaper work who may be called upon to help out on the news end of a paper. Also a good foundation for advanced work in journalism.

Text: Wolseley and Campbell, *Exploring Journalism*, Prentice-Hall, 1949.

J C 112. **Elementary Journalism.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of J C 111. Same text.

J C 113. **Elementary Journalism.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of J C 112. Same text.

J C 421. **Magazine Article Writing.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course deals with a type of newspaper and magazine writing other than the straight, factual news story. Under the term "feature" writing are included interpretative articles, explanations, synthetic treatment of a series of events, human interest material, biographies, personal experiences and observations, confessions, informational discussions, criticisms, book reviews, sketches, etc. From the beginning the student will aim at producing articles that can be published.

Text: Bird, *Article Writing and Marketing*, Rinehart & Co., 1948.

J C 422. **Magazine Article Writing.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

This course is a continuation of J C 421, and includes the handling of pictures, discussion of the law in relation to special features, the final analysis, and the general report on writing done. Same text as for J C 421.

Refresher Mathematics

Mth C 111. **Introduction to Analysis.** 2 q.h. 17 a. \$15.00 for Oregon residents; others, \$20.00.

A refresher course for those who have had mathematics in high school, with emphasis on algebra.

Text: Lapp, Knight, Reitz, *Review of Mathematics for College Students*, Scott, Foresman & Co., 1942.

Mth C 112. **Introduction to Analysis.** 2 q.h. 18 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Mth C 111, with emphasis on geometry and plane trigonometry. Instruction in the use of logarithms and the slide rule is included.

Text: Same as for Mth C 111; also *Navigation Tables*, War Department Technical Manual, TM 1-208, Aug. 1, 1944; Kells, Kern, Bland, *The Long Duplex Trig Slide Rule* No. 4080, a manual, Keuffel & Esser Co., Keuffel and Esser's Beginner's Slide Rule No. 4058 W. Students preparing for engineering may wish to purchase a better slide rule.

Mth C 113. **Introduction to Analysis (Trigonometry).** 2 q.h. 14 a. \$10.00 for Oregon residents; others, \$15.00.

A brief course in logarithms and computational trigonometry, giving the minimum essential preparation for effective service in the Air Forces and other branches of military service. It is not intended to replace Mth C 106 or Mth C 102 as preparation for further courses in mathematics. Prerequisite: intermediate algebra or its equivalent in high-school algebra. Plane geometry is recommended but not required.

Text: Brink, *Plane Trigonometry, with tables* (rev. ed.), D. Appleton-Century Co., 1940.

Versification

Wr C 317. **Versification.** 3 q.h. 16 a. \$15.00 for Oregon residents; others, \$20.00.

The aim is to acquaint the student with fundamental verse forms through the study and analysis of significant verse, and to give opportunity for creative writing. A knowledge of good English usage and some acquaintance with literature are required.

Text: Untermeyer, *The Book of Living Verse*, Harcourt, Brace & Co., 1945.

High-School Courses

These courses are offered in cooperation with the office of the state superintendent of public instruction and when approved by the high-school principal may be applied for credit toward graduation. The General Extension Division does not grant diplomas. This is done by the local high school. Regardless of age, the student wishing to graduate from high school through use of correspondence study should consult his high-school principal. The principal will advise him in the selection of courses. Credit earned through the General Extension Division may be transferred to the high school at which it is to be used.

The courses may also be used by students who wish to clear college entrance deficiencies.

College credit will not be given for any of the high-school courses listed below, but college entrance credit will be granted for the satisfactory completion of any of them.

A unit, when applied to high-school credit, means the equivalent of five recitations per week of not less than forty minutes each, in one branch of study, for the school year of not less than thirty-six weeks.

Numbers following the title of a course indicate: (1) unit (u.) of high-school or college entrance credit; (2) number of assignments (a.); (3) the fee.

High-school seniors who expect to use any of these courses for graduation credit should enroll at least ninety days before they expect to graduate.

Business

BA C 1 E. Introduction to Accounting. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

The aim of this course is to give the student instruction in practical methods of bookkeeping and information concerning the principles underlying all accounting records. It includes a study of business relationships as affecting the accounting records, recording of transactions in the more simple forms of books of original entry, posting to ledgers, and preparation of financial statements.

Texts: Carlson, Forkner, Prickett, *20th Century Bookkeeping and Accounting* (19th ed.), Southwestern Pub. Co., 1947; work book for use with *20th Century Bookkeeping and Accounting* (Stock No. B 411); R. L. Dean Practice Set *without* business papers (Stock No. B 414).

BA C 2 E. Introduction to Accounting. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of BA C 1 E.

Texts: Carlson, Forkner, Prickett, *20th Century Bookkeeping and Accounting* (19th ed.), Southwestern Pub. Co., 1947; work book for use with *20th Century Bookkeeping and Accounting*, begins with Chapter 17 (Stock No. B 421); Curry and Todd Practice Set *without* business papers.

Eng C 14 E. Elementary Commercial English. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course covers practical grammar review, use of the dictionary, vocabulary-

building exercises, correction of errors in usage, principles of effective writing, with attention to punctuation and some fundamentals of public speaking.

Texts: Hagar, Wilson, Hutchinson, Blanchard, *The English of Business*, and *The English of Business Work Book* by the same authors, Gregg Pub. Co., 1935.

Drawing

Mech D C 1 E. Mechanical Drawing. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This is the first semester of a course for students who are beginning the study of mechanical drawing. It includes tool care and use; view shape; simple dimensions; circles; angles; parts of circles; ellipses; sections; shape descriptions; working drawings; graphs, charts, maps, and tracings; lettering.

Text: French and Svenson, *Mechanical Drawing*, McGraw-Hill, 1948. A supplementary text is required and may be selected from a list furnished by the General Extension Division.

Mech D C 2 E. Mechanical Drawing II. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

Continuation of Mech D C 1 E. Includes working drawing sections; auxiliary views; revolutions; threads, bolts, and nuts; assembly and detail drawings; pictorial drawings; inking and tracing; development of sheet-metal drawing; lettering. Prerequisite: Mech D C 1 E or equivalent. Same text as for Mech D C 1 E.

English

Eng C 1 E. Ninth-Grade English. I. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course is the first semester of English and includes work in grammar and literature.

Text: Tressler, *English in Action*, Course I (3rd ed.), D. C. Heath & Co., 1940.

Eng C 2 E. Ninth-Grade English II. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This is a continuation of Eng C 1 E and covers the second semester of English.

Texts: Cross, Smith, Stauffer, Collette, *Good Reading*, Vol. I, *Adventure* (rev. ed.), Ginn & Co., 1938.

Eng C 3 E. Tenth-Grade English III. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course covers the first semester of second-year high-school English.

Text: Tressler, *English in Action*, Book I (3rd ed.), D. C. Heath & Co., 1940. Access to a good dictionary is also necessary.

Eng C 4 E. Tenth-Grade English IV. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Eng C 3 E, covering the second semester of tenth-grade English.

Texts: Cross, Smith, Stauffer, Collette, *Good Reading for High Schools*, Vol. II, *Achievement* (rev. ed.), Ginn & Co., 1938.

Eng C 5 E. Eleventh-Grade English V. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course is the first semester of junior English. Its purpose is to develop the ability of the student to write effectively through practice in composition and to guide him in the study of American literature, especially fiction.

Texts: Tressler, *English in Action*, Course III (4th ed.), D. C. Heath & Co., 1945; Inglis, Bowman, Gehlman, Schramm, *Adventures in American Literature* (4th ed.), Harcourt, Brace & Co., 1947.

Eng C 6 E. **Eleventh-Grade English VI.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Eng C 5 E, covering the second semester of eleventh-grade English. Reading will be from representative American writers in the essay, biography, poetry, drama, folk literature, and humor.

Texts: Tressler, *English in Action*, Course III (4th ed.), D. C. Heath & Co., 1945; Inglis, Bowman, Gehlman, Schramm, *Adventures in American Literature* (4th ed.), Harcourt, Brace & Co., 1947.

Eng C 7 E. **Twelfth-Grade English VII.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

The first semester of senior English. It includes five units of work on English literature from Anglo-Saxon times through the eighteenth century and a careful survey of grammar and grammatical principles.

Texts: Tressler, *English in Action*, Course III and Course IV (4th ed.), D. C. Heath & Co., 1945; Inglis, Cooper, Oppenheimer, Benét, *Adventures in English Literature* (4th ed.), Harcourt, Brace & Co., 1946.

Eng C 8 E. **Twelfth-Grade English VIII.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course is the second semester of senior English, and includes four units of work on the development of English life as reflected through its literature from the romantic period through the twentieth century. Special attention is also given to grammar and composition.

Texts: Tressler, *English in Action*, Course IV (4th ed.), D. C. Heath & Co., 1945; Inglis, Cooper, Oppenheimer, Benét, *Adventures in English Literature*, Harcourt, Brace & Co., 1946.

Eng C 13 E. **Grammar, Punctuation, and Usage Review.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

Intended to give the student a review of all facts and principles of grammar that have practical application in relation to punctuation and good usage. Practice is followed by objective mastery tests, which leave no doubt as to the student's achievement.

Text: Tressler, *Grammar in Action* (rev. ed.), D. C. Heath & Co., 1938.

Eng C 14 E. **Elementary Commercial English.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

For description of this course, see page 21.

Latin

Lat C 1 E. **Beginning Latin, Sec. I.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Lat C 2 E, Sec. II, are the equivalent of the regular high-school course in first-year Latin. Their purpose is to help students learn to understand the structure of the Latin and English languages, their similarities and differences; to know common Latin words and phrases used in English; to analyze words and appreciate distinctions of meaning; to appreciate the great contribu-

tions of the Romans toward world civilization; and to recognize the influence of Greece and Rome in many phases of our daily lives.

Text: Ullman and Henry, *Latin for Americans, First Book*, Macmillan Co., 1949.

Lat C 2 E. Beginning Latin, Sec. II. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Lat C 1 E, Sec. I, and equivalent to the second semester of first-year Latin in high school. Same text as in the preceding course.

Lat C 3 E. Second-Year Latin. (First semester.) $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course and the one following are the equivalent of second-year Latin in high school. The purpose of the study of Latin as stated for the first year is continued through the second year.

Text: Ullman and Henry, *Latin for Americans, Second Book*, Macmillan Co.,

Lat C 4 E. Second-Year Latin. (Second semester.) $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

Continues the preceding course and includes portions of Caesar's *Gallie Wars*. Same text.

Mathematics

Mth C 1 E. Elementary Algebra, A1. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course and A2 correspond to the two semesters' work in this subject offered in standard high schools. A1 covers pages 1-234 of the text.

Text: Betz, *Everyday Algebra, Elementary Course*, Ginn & Co., 1946.

Mth C 2 E. Elementary Algebra, A2. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of A1, covering the remainder of the text. Same text as for A1.

Mth C 3. Intermediate Algebra. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This is an intermediate course between Elementary Algebra, A2, and College Algebra. It covers the work done in the third semester of high-school algebra.

Text: Betz, *Algebra for Today, Second Course*, Ginn & Co., 1946.

Mth C 4 E. Plane Geometry, G1. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

The two courses in plane geometry and the one in solid geometry (G1, G2, G3) correspond to the three semesters' work in this subject offered in standard high schools.

Text: Welchons and Krickenberg, *Plane Geometry* (rev. ed.), Ginn & Co., 1943.

Mth C 5 E. Plane Geometry, G2. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

Same text as for G1.

Mth C 6 E. Solid Geometry, G3. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course follows directly after Plane Geometry, G2. Students who expect to specialize in mathematics, science, engineering, and architecture should take this course.

Text: Welchons and Krickenberg, *Solid Geometry*, Ginn & Co., 1943.

Mth C 7 E. **Elementary Trigonometry.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

Students taking this course should have completed one year of high-school algebra and one year of high-school geometry.

Text: Seymour and Smith, *Plane and Spherical Trigonometry*, The Macmillan Company, 1945.

Mth C 8 E. **Arithmetic.** $\frac{1}{2}$ u. 22 a. \$15.00 for Oregon residents; others, \$20.00.

For high-school students or adults who feel they need further study in the practical everyday problems in arithmetic. First lessons of the course deal with basic processes of arithmetic; later lessons include practical application in consumer mathematics.

Text: Bartoo and Osborn, *Home and Job Mathematics*, Webster Pub. Co., 1943.

Science

Bi C 1 E. **Biology I.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Bi C 2 cover the fundamental principles in plant and animal life, with special emphasis on human and everyday biology. Field work and laboratory exercises supplement the text work. Current reference material is used. A magnifying glass or access to a microscope is required.

Text: Smith, *Exploring Biology*, Harcourt, Brace & Co., 1952.

Bi C 2 E. **Biology II.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00

A continuation of Bi C 1 E, the second semester's work in biology. Same text.

Ph C 1 E. **Physics I.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

The first semester of a year course in physics.

Texts: Dull, Metcalf, Brooks, *Modern Physics*, Henry Holt & Co., 1951; Dull and Metcalf, *Laboratory Experiments in Physics*, Revised Edition, Henry Holt & Co., 1952.

Ph C 2 E. **Physics II.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

The second semester in physics; follows immediately after Ph C 1 E. Same text.

Social Studies

Hst C 3 E. **World History I.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Hst C 4 E are designed to give students a knowledge of the background of history. This section deals with world history from the time of primitive man to the French Revolution.

Texts: Hughes, *The Making of Today's World*, Allyn & Bacon, 1949; Pahlow, *Man's Great Adventure* (rev. ed.), Ginn & Co., 1949.

Hst C 4 E. **World History II.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Hst C 3 E, reviewing briefly world history from the French Revolution to the present. Same texts.

Hst C 5 E. **American History I.** $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course and Hst C 6 E aim to give the student an understanding of the beginnings and growth of the United States. The first semester covers American history from its beginnings to the close of the reconstruction period following the Civil War.

Texts: Wirth, *The Development of America*, American Book Co., 1950; and Wirth, *Workbook for the Development of America* (1947 ed.), American Book Co.

Hst C 6 E. American History II. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

A continuation of Hst. C 5 E. The second semester covers the period in American history from the close of the reconstruction aftermath of the Civil War to the end of World War II. Same texts as for Hst C 5 E.

Prb C 7 E. American Problems I. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

American Problems I and II fulfill the twelfth-grade requirement in social studies. By integrating problems of social, economic, and political significance ranging in scope from problems of personal and community interest to those of national and world-wide importance, the course covers a wide area of topics that are fundamental to the information and understanding of an alert American citizen. In dealing with these a genuine problem study approach is taken.

Texts: Blaich and Baumgartner, *The Challenge of Democracy* (rev. ed.), Harper and Bros., 1947; Sorenson and Malm, *Psychology for Living*, McGraw-Hill, 1948.

Prb C 8 E. American Problems II. $\frac{1}{2}$ u. 24 a. \$15.00 for Oregon residents; others, \$20.00.

This course constitutes the second semester's work in American Problems, and uses the same texts and general method as American Problems I.

Spanish

Sp C 1 E. First-Year High-School Spanish. (first semester.) $\frac{1}{2}$ u. 25 a. \$15.00 for Oregon residents; others, \$20.00.

For students who are beginning the study of Spanish. This course covers lessons 1 to 25 in the text.

Text: Pittaro and Green, *Primer Curso de Español*, D. C. Heath & Co., 1938.

Sp C 2 E. First-Year High-School Spanish. (second semester.) $\frac{1}{2}$ u. 25 a. \$15.00 for Oregon residents; other, \$20.00.

A continuation of Sp C 1 E, covering lessons 26 to 50 in the text.

Text: Pittaro and Green, *Primer Curso de Español*, D. C. Heath & Co., 1938.

Seminars in Correspondence

Students who wish to take the same correspondence course may wish to study together. This procedure is encouraged: after reading each assignment, the student will find it helpful to discuss the topics with others. However, under this plan each student is expected to submit his original answers to the questions listed as the written assignment. Written assignments should be prepared separately after the discussion-group meeting. If you decide to become a member of a seminar group, contact the General Extension Division in order that all of your group may have the same instructor assigned to them.

Study Courses for Clubs

The General Extension Division invites women's clubs, teachers' study clubs, granges, and other groups of persons whose common interest in some subject makes group study desirable to use correspondence courses as study outlines. The careful organization of the course outlines, the many references for supplementary reading, and the lesson questions, which are well adapted to group discussion, make many of the correspondence courses excellent aids to group study.

Groups wishing to use a course outline in this manner may enroll as a group in the name of the secretary or leader of the group and pay only one registration fee. Such registration entitles the group to one complete set of the lesson outlines and the privilege of submitting one written report on each lesson. Such a report should represent the conclusions of the group as determined by general discussion of the members. Members of the group who wish to secure credit for their work may enroll individually, submit their own reports on each assignment, and fulfill all other requirements of the course. Such members should find the group discussions of special value and interest in connection with their work.

Questions concerning this group-study plan should be addressed to the Office of Correspondence Study, General Extension Division, Eugene.

The Department of State-Wide Services

The Department of State-Wide Services offers evening classes, workshops, and correspondence study throughout the state. The courses offered represent the five State System institutions and the credit earned is recognized in all the institutions of higher learning in Oregon. A major portion of the hours necessary for a bachelor's degree may be taken in extension classes. The fees are identical to campus costs, and the classes are taught by State System staff members or by approved professional staff members. The motto, "The State is the Campus," clearly illustrates the scope of service available to all citizens of Oregon.

Correspondence study offers over 230 home-study courses in the following general fields: anthropology, architecture, art, aviation, biology, business administration, economics, education, engineering, English, literature, geography, geology, history, home economics, journalism, languages (both modern and classical), library methods, mathematics, physics, political science, psychology, secretarial science, and sociology. Also offered are high-school courses in almost every subject.

Correspondence students are found all over the world.

Instruction through correspondence study is thorough, pleasant, and efficient, and this branch of the Department of State-Wide Services is one of the largest in the United States in terms of students being served.

For further information or catalogs, write Department of State-Wide Services, General Extension Division, Johnson Hall, University Campus, Eugene, Oregon. You are also invited to call in person whenever you are in the locality.

General Extension Division

The General Extension Division of the Oregon State System of Higher Education is the agency through which the University of Oregon, Oregon State College, and the three Oregon colleges of education render general extension services to the state through the following departments of the Division:

Department of State-Wide Services
Emerald Hall, University Campus
Eugene, Oregon

Department of Visual Instruction
Room 131, Coliseum Building
State College Campus
Corvallis, Oregon

Radio Station KOAC
304 Physics Building
State College Campus
Corvallis, Oregon

Portland State Extension Center
1620 S. W. Park Avenue
Portland 1, Oregon

Committee on High-School Relations

Portland State Extension Center Building
1620 S. W. Park Avenue
Portland 1, Oregon

Portland Summer Sessions

1620 S. W. Park Avenue
Portland 1, Oregon

International Relations

Portland State Extension Center Building
1620 S. W. Park Avenue
Portland 1, Oregon

Portland State Extension Center

Portland State Extension Center offers a lower-division day program and an evening program offering lower-division, upper-division, and graduate work in the following departments, divisions, and professional schools:

Anthropology
Art
Business Administration
Chemistry
Drama
Economics
Education
Engineering
English
Esperanto
French
General Science
General Social Science
General Studies
Geography
German
History

Home Economics
Horticulture
Journalism
Landscape Architecture
Mathematics
Music
Nursing Education
Physical Education
Physics
Psychology
Public Health
Public Speaking
Russian
Sociology
Spanish
Speech and Drama
Zoology

State-Wide Services

In addition to Correspondence Study, each year several hundred classes are scheduled throughout the state. They are arranged as a public service to meet the needs and interests of individual communities and may be either formal in nature, carrying college credit, or informal and recreational, without credit.

Any club, church, school or social group may request a class by writing the DEPARTMENT OF STATE-WIDE SERVICES, General Extension Division, Eugene, stating the subject selected and the number of persons interested. Instructors of state-wide classes are regular faculty members of the Oregon State System of Higher Education, or subject specialists approved by department heads.

Institutes and conferences also are arranged through this department.

Publications of the General Extension Division

The General Extension Division issues the following publications, copies of which will be mailed upon request:

CORRESPONDENCE STUDY BULLETIN

Persons desiring to register for correspondence courses should write for the latest bulletin to General Extension Division, Oregon State System of Higher Education, Eugene, Oregon.

BULLETIN OF VISUAL-INSTRUCTION AIDS

Lists a large number of 16 mm. and 35 mm. silent and sound films and both glass and film slides, together with service or rental fees. It may be secured by addressing Department of Visual Instruction, Oregon State System of Higher Education, Corvallis, Oregon.

BULLETIN OF PORTLAND STATE EXTENSION CENTER

Lists the courses offered at the Portland Center during the regular collegiate year. Write to Portland State Extension Center, 1620 S. W. Park Avenue, Portland 1, Oregon.

TEACHER'S BROADCAST GUIDE, SCHOOL OF THE AIR, KOAC

An aid to teachers whose classes listen to the School of the Air program. Address Radio Station KOAC, Corvallis, Oregon.

KOAC RADIO PROGRAM

The regular program, published quarterly during the school year. Address Radio Station KOAC, Corvallis, Oregon.

GENERAL EXTENSION JOURNAL

A news sheet published quarterly for the students of the General Extension Division. Address General Extension Division, Oregon State System of Higher Education, Eugene, Oregon.

BULLETIN OF PORTLAND SUMMER SESSION

Address Director, Portland Summer Session, Portland State Extension Center Building, 1620 S. W. Park Avenue, Portland 1, Oregon.

Directions for Enrolling in a Correspondence Course

1. Fill out the Application Blank below *on both sides*.
2. Make check or money order payable to *General Extension Division*.
3. Mail your application and fee to:
Office of Correspondence Study
General Extension Division
Eugene, Oregon
4. Your complete course and directions for completing it will be mailed to your promptly.
5. Texts should be ordered directly from the University of Oregon Co-operative Store, Eugene, Oregon. A list of text prices will be included with your course.

Application for Correspondence Courses

Mr. ()
Miss ()
Mrs. () _____
Please Print—Include Middle and Maiden Name

Address _____

Occupation _____ Age _____

Educational Background (circle highest year completed):

grammar school high school college

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 Degree _____

Object in taking course _____

The Office of Correspondence Study is always happy to help its students in any way possible. If you need assistance at any time, please do not hesitate to write us.

Institution at which you expect to use credit.....

Have you ever before registered with the General Extension Division?....

* * *

Enclosed is my check or money order in the amount of \$.....

.....

.....

Please list courses by both number and title

Enrollment Report

July 1, 1951—June 30, 1952

General Extension Classes and Correspondence Study

Extension Classes	Graduates			Undergraduates			Auditors			Non-credit			Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
PORTLAND CENTER	430	400	830	1,339	1,873	3,212	237	337	574	15	71	86	2,021	2,681	4,702
PORTLAND SUMMER SESSION	296	172	468	371	630	1,001	3	15	18	—	—	—	670	817	1,487
VANPORT EXTENSION CENTER	—	—	—	2,185	625	2,810	—	—	—	—	—	—	2,185	625	2,810
STATE-WIDE CLASSES															
Albany	37	14	51	21	69	90	1	—	1	—	—	—	59	83	142
Arlington	—	—	—	5	10	15	—	—	—	—	—	—	5	10	15
Ashland	29	2	31	—	—	—	—	—	—	—	—	—	29	2	31
Astoria	18	27	45	6	56	62	—	—	—	—	—	—	24	83	107
Baker	16	12	28	—	29	29	—	—	—	—	—	—	16	41	57
Bandon	7	10	17	1	14	15	—	—	—	—	—	—	8	24	32
Beaverton	—	—	—	4	51	55	—	—	—	—	—	—	4	51	55
Bend	4	5	9	—	48	48	—	6	6	—	—	—	4	59	63
Burns	3	3	6	4	20	24	—	—	—	—	—	—	7	23	30
Canby	—	—	—	2	25	27	—	—	—	—	—	—	2	25	27
Cave Junction	2	9	11	—	—	—	2	—	2	—	—	—	4	9	13
Central Oregon C. C.	—	—	—	19	39	58	1	19	20	—	—	—	20	58	78
Condon	—	—	—	4	7	11	—	—	—	—	—	—	4	7	11
Coos Bay	2	3	5	9	66	75	—	—	—	—	—	—	11	69	80
Coquille	3	5	8	1	55	56	—	—	—	—	—	—	4	60	64
Corvallis	22	31	53	21	72	93	6	22	28	—	—	—	49	125	174
Cottage Grove	2	12	14	5	36	41	—	—	—	—	—	—	7	48	55
Drain	—	—	—	2	14	16	—	—	—	—	—	—	2	14	16
Enterprise	—	—	—	10	31	41	—	—	—	—	—	—	10	31	41
Eugene	60	67	127	183	282	465	81	39	120	213	161	374	537	549	1,086
Florence	1	2	3	9	—	9	—	—	—	—	—	—	10	2	12
Forest Grove	6	7	13	3	38	41	—	1	1	—	—	—	9	46	55
Gold Beach	5	4	9	1	6	7	—	—	—	—	—	—	6	10	16
Grants Pass	27	17	44	9	55	64	—	—	—	—	—	—	36	72	108
Harrisburg	—	—	—	3	25	28	—	—	—	—	—	—	3	25	28
Heppner	3	2	5	—	7	7	—	—	—	—	—	—	3	9	12
Hermiston	3	11	14	3	44	47	—	—	—	—	—	—	6	55	61
Hillsboro	2	13	15	5	32	37	—	—	—	—	—	—	7	45	52
Hood River	16	15	31	5	30	35	—	—	—	—	—	—	21	45	66
Klamath Falls	30	21	51	59	162	221	11	19	30	6	1	7	106	203	309
La Grande	34	20	54	—	3	3	—	—	—	—	—	—	34	23	57
Lakeview	—	—	—	2	8	10	—	—	—	—	—	—	2	8	10
Lebanon	9	11	20	17	115	132	—	—	—	—	—	—	26	126	152
McMinnville	27	18	45	—	45	45	—	2	2	—	—	—	27	65	92
Madras	—	—	—	—	15	15	—	1	1	—	—	—	—	16	16
Medford	7	6	13	14	81	95	—	20	20	—	—	—	21	107	128
Milton	6	9	15	3	14	17	—	—	—	—	—	—	9	23	32
Milwaukie	3	6	9	1	16	17	—	—	—	—	—	—	4	22	26

Enrollment in General Extension Division

(Continued)

July 1, 1951—June 30, 1952

	Graduates			Undergraduates			Auditors			Non-credit			Total		
	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total	Men	Women	Total
Molalla.....	—	—	—	—	5	5	—	8	8	—	—	—	—	13	13
Monmouth.....	6	3	9	3	2	5	1	3	4	—	—	—	10	8	18
Moro.....	—	—	—	3	12	15	—	—	—	—	—	—	3	12	15
Myrtle Creek.....	—	2	2	2	12	14	—	—	—	—	—	—	2	14	16
Myrtle Point.....	10	3	13	1	21	22	—	—	—	—	—	—	11	24	35
Newberg.....	—	—	—	4	20	24	—	1	1	—	—	—	4	21	25
Newport.....	5	11	16	9	63	72	—	—	—	—	—	—	14	74	88
North Bend.....	6	8	14	2	49	51	—	—	—	—	—	—	8	57	65
Nyssa.....	11	13	24	5	44	49	—	—	—	—	—	—	16	57	73
Oakridge.....	—	—	—	1	11	12	—	—	—	—	—	—	1	11	12
Ontario.....	17	6	23	15	27	42	—	—	—	—	—	—	32	33	65
Oretech.....	11	—	11	24	—	24	—	—	—	—	—	—	35	—	35
Pendleton.....	20	28	48	14	64	78	—	—	—	—	—	—	34	92	126
Port Orford.....	6	9	15	2	8	10	—	—	—	—	—	—	8	17	25
Prineville.....	4	5	9	4	37	41	1	4	5	—	—	—	9	46	55
Rainier.....	2	1	3	1	24	25	—	—	—	—	—	—	3	25	28
Raleigh Hills.....	3	6	9	3	15	18	—	—	—	—	—	—	6	21	27
Redmond.....	4	7	11	8	36	44	—	3	3	—	—	—	12	46	58
Reedsport.....	—	—	—	—	6	6	1	8	9	—	—	—	1	14	15
Roseburg.....	53	26	79	18	124	142	—	5	5	—	—	—	71	155	226
Russelville.....	—	—	—	—	34	34	—	—	—	—	—	—	—	34	34
Salem.....	27	46	73	60	240	300	—	2	2	—	—	—	87	288	375
Sandy.....	—	—	—	3	23	26	—	—	—	—	—	—	3	23	26
Seaside.....	6	6	12	—	21	21	—	—	—	—	—	—	6	27	33
Sisters.....	—	—	—	—	1	1	—	3	3	—	—	—	—	4	4
Springfield.....	—	—	—	—	25	25	—	1	1	—	—	—	—	26	26
Stayton.....	—	—	—	1	11	12	—	—	—	—	—	—	1	11	12
St. Helens.....	—	—	—	—	20	20	—	—	—	—	—	—	—	20	20
Sweet Home.....	11	1	12	8	19	27	—	—	—	—	—	—	19	20	39
Taft.....	—	—	—	—	18	18	—	—	—	—	—	—	—	18	18
The Dalles.....	2	4	6	1	16	17	—	—	—	—	—	—	3	20	23
Tillamook.....	14	23	37	13	55	68	—	1	1	—	—	—	27	79	106
Vale.....	—	—	—	18	38	56	—	—	—	—	—	—	18	38	56
Willamina.....	—	—	—	—	20	20	—	—	—	—	—	—	—	20	20
Woodburn.....	8	3	11	1	9	10	—	1	1	—	—	—	9	13	22
State-Wide Totals.....													1,589	3,654	5,243*
CORRESPONDENCE STUDY															
New Registrations.....	—	—	—	1,287	1,313	2,600	—	—	—	—	—	—	1,287	1,313	2,600†
Totals.....	1,336	1,145	2,481	5,837	7,191	13,028	345	521	866	234	223	467	7,752	9,090	16,842

* Figures include 508 people who took classes in more than one center.

† Figures for June, 1952, estimated.

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