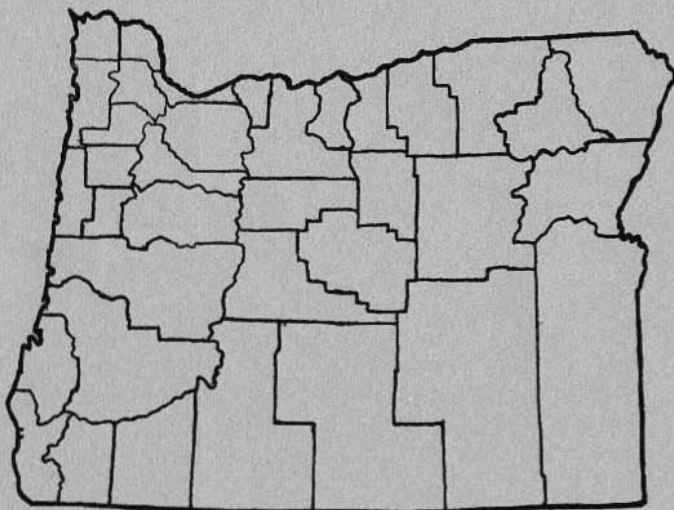




# CORRESPONDENCE STUDY

GENERAL EXTENSION DIVISION

1943-44



"The State is the Campus"

Oregon State System of Higher Education

University of Oregon



Oregon State College

Oregon College of Education

Southern Oregon College of Education

Eastern Oregon College of Education

## Oregon State System of Higher Education

**T**HE 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, located on a separate campus in Portland, is administratively autonomous but traditionally and academically an integral part of the University of Oregon.

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. At the Southern Oregon College of Education and the Eastern Oregon College of Education 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.

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.

The educational program thus developed, as shown in the following insert, includes: (1) Liberal Arts and Sciences, (2) Professional and Technical Curricula, (3) Graduate Study and Research.

OREGON STATE SYSTEM  
OF HIGHER EDUCATION

# CORRESPONDENCE STUDY

Announcement for  
1943-44

GENERAL EXTENSION DIVISION  
Oregon State System of Higher Education  
Eugene, Oregon

## State Board of Higher Education

	Term Expires
E. C. SAMMONS, Portland.....	1944
ROBERT W. RUHL, Medford.....	1945
EDGAR W. SMITH, Portland.....	1946
WILLARD L. MARKS, Albany.....	1947
R. C. GROESBECK, Klamath Falls.....	1948
MAC HOKE, Pendleton.....	1949
R. E. KLEINSORGE, Silverton.....	1950
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LEIF S. FINSETH, Dallas.....	1952

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Office of the State Board of Higher Education  
Eugene, Oregon

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# Oregon State System of Higher Education

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\* Each dean and director in this list is interinstitutional in function, and the Chancellor's principal adviser in his field. Academic deans and directors are responsible, jointly with the presidents of institutions where nonmajor work is offered, for keeping nonmajor course offerings in proper relation to the work of the major schools.

# Correspondence Study

## Oregon State System of Higher Education

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 THOMAS J. ZILKA, B.S., Graduate Assistant in Mechanical Engineering, State College.  
 NOWLAND B. ZANE, Associate Professor of Space Arts, University.

#### INSTRUCTORS IN CORRESPONDENCE STUDY

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 PAUL W. DAVIS, Civil Aeronautics.  
 EDGAR A. GOODNOUGH, M.A., History.  
 DANIEL MCGEEN, B.A. Biology.  
 PAT V. MORRISSETTE, M.A., English.  
 LULU V. MOURSUND, M.A., Mathematics.  
 J. HUGH FRAUETT, B.A., Astronomy.  
 EDWARD G. QUIGLEY, B.A., Education.  
 E. LENORE TROMP, M.A., Library Methods.  
 MARGERY H. TROWBRIDGE, Ph.D., Psychology.  
 MARION H. WRIGHT, Spanish.

## General Information

The Oregon State System of Higher Education makes available a wide range of instruction through correspondence courses to persons who would like to study but who cannot attend an institution of learning.

Correspondence courses are designed to aid persons wishing to earn credits toward an academic degree, toward graduation from a teachers' college or from high school, or toward the completion of college entrance requirements, and to serve those who wish to pursue studies under competent direction, without reference to academic credits or requirements.

A correspondence course is carefully organized instruction by means of lesson outlines, prepared by members of the faculties of the State System. These outlines take the place of lectures and class exercises given to students in residence. Using these lesson outlines as guides, the student studies textbooks and reference materials in the courses which he selects, prepares written papers and reports, which he mails to the General Extension Division for correction and comment by instructors. The corrected reports are returned to the student.

No entrance examinations are required, but any person of sufficient maturity and preparation to carry courses successfully may enroll. The General Extension Division reserves the right to advise students and help them select the courses best suited to their preparation and needs. Students wishing credit must meet regular academic requirements.

#### SPECIFIC ADVANTAGES OF CORRESPONDENCE STUDY

Correspondence study is in no sense recommended as a substitute for resident study at an educational institution. Nevertheless, instruction by correspondence has many decided advantages for those who, for the time being at least, cannot avail themselves of the opportunities offered by actual presence on a campus. Some of these advantages may be enumerated as follows:

1. Work may be done at any time.
2. Studying may be done at a time and under conditions of the student's own choosing.
3. Studying may be done in leisure hours, without in any way interfering with the breadwinning activities of the student.
4. The student is encouraged to do original thinking in the preparation of his lesson reports. Because he does the work alone, for the most part, there is not the temptation to be guided in his thinking by his classmates. This method of study thus develops the student's resourcefulness and independence.
5. Progress toward the completion of courses may be practically as rapid as the ability and application of the student will permit. Thus the student who grasps ideas quickly is not held back by less brilliant classmates, while, on the other hand, the slower and more methodical student is enabled to choose his own rate of study.
6. Credits earned in correspondence study may be counted toward a college or university degree, toward graduation from a college of education, or toward graduation from high school.
7. Correspondence study is inexpensive, both because the fees are small and because the work can be done at home.

**ELIGIBILITY TO CORRESPONDENCE STUDY**

**Residents of the States.** The correspondence courses offered by the General Extension Division are intended primarily for residents of the state. Special fees are required of non-resident students. (See "Fee", page 9.)

*Correspondence courses and work in residence may not be carried at the same time.* No student is permitted to carry correspondence work while in actual attendance at any college or high school, except by special permission of the institution in which he is a resident student and by consultation with the General Extension Division. All such arrangements must be made through the head of correspondence study in the General Extension Division.

Correspondence students who register for resident work in an educational institution before completing their course must confer with the General Extension Division to secure an extension of time on the correspondence course.

*Special rules govern the carrying of work by correspondence during the short vacation periods between terms.* In general, students are not permitted to submit correspondence lessons unless the vacation period is one week or longer. Any resident student desiring to do correspondence work during the Christmas or spring vacations must first consult the General Extension Division in regard to procedure. These regulations apply to students in residence at any educational institution.

**GENERAL RULES GOVERNING CORRESPONDENCE STUDY**

**Selection and Application.** The student should select a course carefully. If taken for credit to meet a requirement, it should be the best course for the purpose. Advice in choosing courses should be secured from the head of correspondence study. An application blank may be found on the last page of this catalog. The student should fill out this application form, giving all the information requested, and return it to the General Extension Division with the fee.

**The Lessons.** If the student's application is accepted, the first lessons are sent to him at once with directions for the preparation of written reports which he is to send to the correspondence study department for criticism by the instructor. Reports should be sent in one at a time as soon as completed in order that the benefit of criticisms and suggestions may be had in the preparation of subsequent lessons.

**Criticism of Reports.** Students are asked to accept criticism in the helpful spirit in which it is intended, as it is only in this way that an instructor can guide the student in the correction of his mistakes and lead him to do constructive work. At no time should a student permit himself to pass by portions of lessons that he does not understand. Questions should be asked freely whenever there is any difficulty.

**Time Required.** Those working for credit may not complete more than eight term 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, upon satisfactory evidence to the General Extension Division that this is the case, may complete a maximum of twelve term hours during any period of twelve weeks. There is always the opportunity to dig deeper. Reports should be distributed evenly throughout the

period of study. The secretary or instructor may refuse to accept the reports of a student who hurries his work unduly.

**Length of Course.** Where practicable, courses are outlined in units of sixteen lessons each. Some subjects are treated in a series of units so arranged that students who do not have the time or do not care for all of the units may select those they prefer. A number of courses, however, have twenty-four and thirty-two assignments, and a few have forty-eight.

**Number of Courses.** A student should not register for more than one or two courses at one time. Those who are not familiar with correspondence methods and those who have only spare time for study should never attempt more than one course at a time. When an extensive course is arranged in more than one section, a student should enroll for each section separately.

**Texts.** Students should if possible secure their own copies of required texts. Libraries may be relied upon for reference material and supplementary reading, but cannot be expected to supply texts. The General Extension Division will furnish upon request information regarding texts for any course.

**Supplies.** All supplies required in the preparation of written assignments are furnished by the student. The student also pays postage on papers sent to the General Extension Division. The Division pays return postage on lesson papers.

**EXPENSES**

**Fee.** The amount of the fee for residents of Oregon is stated after the description of each course in this catalog. A student whose home is not in Oregon, or one who is required to pay a "non-resident fee" at an educational institution in this state, pays \$5.00 in addition to the fee for resident students; when a course is arranged in two or more sections, \$5.00 must be added to the resident fee for each section. This non-resident fee is waived for the duration of the war for men and women in any branch of the armed forces.

**When Payable.** Fees are payable in advance and should accompany the application for courses. *Fees will be returned to the student if his application is not accepted. After a student has been registered in a course, press of other work or unwillingness to carry on the course will not be considered adequate cause for his withdrawal. 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 a 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 for registration. No course fee will be refunded after a student has submitted lesson reports.*

Fees will be refunded to persons in military service provided no more than one half the lessons in the course have been completed and that the request for a refund is received by the General Extension Division within three months of the date of registration. When such refunds are made, \$2.00 will be retained for registration and 50 cents for each lesson report that has been corrected.

*A student may transfer from one course to another by the payment of \$1.00 in addition to any necessary adjustment in fees between the two courses and 50 cents for each assignment completed in the original course. The date of expiration of the new course will be the same as the date of expiration of the original course.*

*Money should be sent in the form of postal order, express order, or bank draft made payable to the General Extension Division.*

**Duration of Course Registration.** One year from the end of the quarter in which the enrollment occurs is allowed a student for the completion of a course. On application to the General Extension Division, extension of time may be granted equivalent to the time lost on a course by reason of serious illness or by attendance at an educational institution, provided application for such extension of time is made when active work is discontinued.

**Renewal Fee.** A course registration which has expired may be renewed for an additional year by the payment of a renewal fee of \$2.00. *A student will not be permitted more than two renewals on any one course or section of a course.*

#### CREDIT FOR CORRESPONDENCE STUDY

**Final Examinations** must be taken in all correspondence courses for which the student desires credit; otherwise, examinations are optional. The General Extension Division strongly advises students to take final examinations in all courses in which they have completed the lessons satisfactorily. Often those who have no thought of using credit at the time courses are completed later find they need it in connection with plans for advancement.

To secure credit in a course, the final examination must be taken within six weeks from the time work on the lessons is completed. Otherwise, special arrangements must be made with the General Extension Division.

**Final Examinations Must be Supervised.** They may be taken in the office of the General Extension Division, Eugene, in the Portland Center office, 814 Oregon Building, Portland, or under supervision approved by the Extension Division. Arrangements for the examination should be made some time before the date on which the writing is to be done.

**Undergraduate Credit Allowed.\*** Sixty term hours earned in correspondence courses is the maximum amount of credit that may be counted toward a bachelor's degree.

**No Graduate Credit** is allowed for correspondence study.

**College Entrance Credit.** Students who have college entrance deficiencies may take correspondence courses to remove them. The high school courses described on pages 44 to 49 of the catalog are for this purpose, although mature students may also enroll in certain college courses for entrance credit. For this purpose, nine term hours of college credit may be counted the equivalent of one entrance unit.

**Non-Matriculated Students.** Students who have not matriculated at an educational institution may have credit for courses recorded provisionally only. After matriculation requirements have been met, correspondence credit may be counted toward graduation, provided the course is approved for credit by the institution concerned.

\* A senior who is taking a correspondence course for credit toward a degree must complete the course not less than two weeks before the date of his graduation. The General Extension Division cannot assume responsibility for credit in a course that is not completed in accordance with this requirement.

**Transfer of Credit.** Credits earned in correspondence courses with the General Extension Division may be transferred to other institutions of higher education in the state. There is also an exchange of credits permitted between colleges and universities having membership in the National University Extension Association. The General Extension Division is a member of this Association.

To prevent mistakes in the selection of correspondence courses, any student who expects to have credits transferred should, before his enrollment, secure approval from the school to which the credits are to be transferred. He should also consult the head of correspondence study in the General Extension Division.

**Requirements for Degrees.** A student should consult the general catalog of the institution from which he expects to receive his degree for requirements before he plans his correspondence study program.

**Grades.** The quality of student work is measured by a system of grades and grade points. Grade points are as follows: four passing grades, A, B, C, D; failure, F; incomplete, Inc. The grade of A denotes exceptional accomplishment; B, superior; C, average; D, inferior. Grade points are computed on the basis of 4 points for each term hour of A grade, 3 points for each term hour of B, 2 points for each term hour of C, 1 point for each term hour of D, and 0 points for each term hour of F. A mark of Inc. is disregarded in the computation of points. The grade point average (GPA) is the quotient of total points divided by total term hours in which grades (A, B, C, D, and F) are received. Grade points are computed on all work which the student does as an undergraduate (including transferred hours, correspondence study, and special examinations).

#### DEFINITIONS

**A Course** is a subject, or an instructional subdivision of a subject, offered through a single term.

**A Year-Sequence** consists of three closely articulated courses extending through the three terms of the academic year.

**A Curriculum** is an organized program of study arranged to provide definite cultural or professional preparation.

**A Term Hour** represents three hours of the student's time each week for one term. This time may be assigned to work in classroom or laboratory or to outside preparation.

*Enrollment in correspondence courses is not confined to terms. Students may register for courses at any time during the year.*

#### ADMISSION TO FIRST-YEAR STANDING

The requirements for admission to first-year or freshman standing conform to the following uniform entrance requirements adopted by all the institutions of higher education in Oregon:

Graduation from a standard high school, which in Oregon involves the completion of 16 units, 8 of which shall be required as follows: 3 units in English; 2 units in social science, comprising the state-adopted courses in United States history-civics and socio-economic problems; 1 unit in health and physical education; and 2 units selected from the field of natural science and mathematics or



the field of foreign language. Two units in either natural science or mathematics or 1 unit in each of these subjects will be acceptable, but a minimum of 2 units in a single language will be required if a foreign language is selected.

Graduates from standard out-of-state high schools are required to present substantially the same distribution of units. Applicants who are not residents of Oregon may be held for additional requirements demonstrating superior ability.

Evidence of acceptable scholastic preparation may consist of either (1) certificate of preparatory-school record, or (2) statement of standing on College Entrance Board examinations.

Application for admission by certificate is made on the official form, *Application for Admission to Oregon Higher Institutions*, furnished to schools by the State Department of Education. The applicant's scholastic record must be certified by the principal or superintendent of his school.

Students seeking admission by examination should gain information from the secretary of the College Entrance Examination Board, 431 West 117th Street, New York City.

#### ADMISSION WITH ADVANCED STANDING

Advanced standing is granted to students transferring from accredited institutions of collegiate rank. The amount of credit granted depends upon the nature and quality of the applicant's previous work, evaluated according to the academic requirements of the University and State College.

A student wishing credit for work done elsewhere than at an accredited educational institution must petition for permission to take examinations in specific courses listed in the catalog of any institution in the State System. In general, credit by examination is allowed only for work taken in regularly organized courses in nonaccredited institutions of collegiate rank.

Final determination of the amount of credit to be granted may be deferred until after the student has been in attendance for at least three terms.

#### ADMISSION AS A SPECIAL STUDENT

An applicant for admission as a special student must be not less than 21 years of age, and must file with the Registrar documentary evidence sufficient to prove his special fitness to pursue the subjects desired.

Two classes of special students are recognized: (1) those not qualified for admission as regular students but qualified by maturity and experience to work along special lines; and (2) those qualified for admission as regular students but not working toward a degree.

A special student may petition for regular standing when he has made up entrance deficiencies or has completed at least 45 term hours in the University and State College. Credits earned by a special student will not subsequently be counted toward a degree until the student has completed at least two years of work (93 term hours) as a regular student. In case a regular student changes to special status, work done while classified as a special student will not count toward a degree.

## 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 indicate lower division; those 300 and above indicate upper division. Numbers following the course title represent: (1) term hours (t.h.) of credit; (2) number of lesson assignments (a.); and (3) the enrollment fee for students living in Oregon. *Students living outside of the state must add a non-resident fee of \$5.00 to the fee for each course or section of a course as stated in this catalog.* The non-resident fee is waived during the war period for persons in all branches of the armed forces.

No credit earned in correspondence courses may be applied toward a graduate degree.

### AGRICULTURE

FM C 311. **Farm Accounting.** 3 t.h. 16 a. \$7.00.

Designed to give a farmer or an adult student the minimum essentials required in a satisfactory system of records for the typical farm. Subjects covered are: taking inventory, including how to determine depreciation and how to compile a financial credit statement; arrangement of receipts and expense items for convenience in analysis and in filing income tax statements; methods for increasing efficiency of the farming system; the role of records in establishing equitable lease terms and the function of farm records in making a budget for the coming year. The course is also suitable for use in study groups.

Text: Currier, Lennes, Merrill, *Farm Accounting*, Macmillan Company, 1932.

### ARCHITECTURE AND ALLIED ARTS

#### ARCHITECTURE

AA C 150. **Mechanical Drawing, Section I.** 3 t.h. 15 a. \$7.00.

Instruction in the use and care of instruments, geometric drawing, practical applications of the principles of orthographic projection to drafting room practice, etc. Neat, plain lettering, shop drawings, tracings, and isometric drawing receive special emphasis. Prerequisite: Plane Geometry.

Text: French, *Engineering Drawing* (sixth edition), McGraw-Hill Book Company. A list of drawing materials required will be sent on request.

AA C 150. **Mechanical Drawing, Section II.** 3 t.h. 15 a. \$7.00.

A continuation of Section I. Developments and intersections of surfaces. Same text as in Section I. Prerequisite: Section I or its equivalent.

AA C 320. **Stresses.** 2 t.h. 12 a. \$5.00.

Principles involved and methods used in determining tensile and compressive stresses in various members of framed structures, such as roof trusses, bridges, cantilever trusses, three hinged arches, etc. Dead loads are analyzed by algebraic and graphic methods. A knowledge of mathematics through trigonometry is essential. No text required.

AA C 321. **Stresses.** 2 t.h. 12 a. \$5.00

A continuation of AA C 320. Analysis for live loads.



**AA C 420. Elementary Structural Design.** 2 t.h. 15 a. \$5.00.

Principles employed in computing the proper sizes to use in trusses, machines, steel framework and other objects under stress are explained and applications made to practical problems. This section deals with application to wooden design. A knowledge of mathematics through trigonometry is essential.

Text: *Steel Construction*, fourth edition, 1941, published by the American Institute of Steel Construction, 200 Madison Avenue, New York City.

**AA C 421. Elementary Structural Design.** 2 t.h. 12 a. \$5.00.

Application in this section is to steel construction. Same text.

**AA C 422. Elementary Structural Design.** 2 t.h. 9 a. \$5.00.

Application of principles and formulas to design of reinforced concrete. Same text.

**LA C 290. Lower-Division Landscape Design.** 3 t.h. 16 a. \$7.00 (See also Landscape Architecture, page 32.)

The purpose of this course is to offer a program of study to assist home owners and others interested in gardens and landscape design to obtain an appreciation of the art and to learn some of the practical aspects of home grounds development. Several practical design problems are included, one of which may be the grounds of the student's own home. Credit for this course may not be applied toward a major in landscape architecture.

Text: Bottomley, M. E., *The Art of Home Landscape*, A. T. De La Mare Company, New York, N.Y., 1935; and Ramsey, L. W., *Landscaping the Home Grounds*, Macmillan, 1938.

**ART****AA C 144. Freehand Drawing.** 2 t.h. 12 a. \$7.00.

For beginners and others interested in fundamental principles involved in graphic representation. Emphasis is upon the understanding of forms and their relation to picture making. Cost of materials needed will be sent on request. No text required.

**AA C 145. Freehand Drawing.** 2 t.h. 12 a. \$7.00.

A continuation of AA C 144.

**AA C 166. Design I.** 3 t.h. 17 a. \$10.00.

A creative approach to design for individual expression, with a study of two and three dimensional forms in painting, sculpture, textiles, advertising, etc. Course outline includes text. List of materials sent on request.

**ASTRONOMY****Ph C 101. Astronomy, Section I.** 3 t.h. 16 a. \$7.00.

Attention is given to laws governing stars, planets, sun, moon, comets, and nebulae; also to a 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. A knowledge of elementary algebra, plane and solid geometry is required.

Texts: Fath, *Elements of Astronomy* (1934 edition or later), McGraw-Hill Book Company; McKready, *A Beginner's Guide to the Stars*, G. P. Putnam's Sons.

**Ph C 101. Astronomy, Section II.** 3 t.h. 16 a. \$7.00.

A continuation of Ph C 101, Section I.

**Ph C 1 X. Astronomy (Short Course).** No credit. \$5.00.

A non-mathematical course for those interested in the subject, emphasizing naked eye observational work.

Texts: same as for Ph C 101.

**AVIATION****CA C 311-312. Elementary Civilian Pilot Training—Air Navigation.** 3 t.h. 17 a. \$7.00.

A study of such basic principles in air navigation as chart reading, instruments, cross country flying, dead reckoning, radio navigation, celestial navigation, and civil air regulations. This course and the one following in Meteorology are designed to cover as thoroughly as possible the material in these subjects included in the elementary ground-school training program of the C.A.A. While the completion of these courses will not exempt a student from the ground-school portion of the training required for a pilot's license, a knowledge of the material in the courses will greatly facilitate his regular flight training. When college credit is desired this course must be taken with CA C 312-313 or its equivalent. Prerequisites are: elementary algebra, plane geometry, and elementary physics.

Texts: Lyon, *Practical Air Navigation* (Civil Aeronautics Bulletin No. 24); and *Digest of Civil Air Regulations for Pilots* (Civil Aeronautics Bulletin No. 22). The student will need also a protractor; a 12 inch ruler with regular scale in inches on one edge and the metric scale on the other; large size dividers or compass; a 4H pencil; and a sectional aeronautical chart, "Portland" designation.

**CA C 312-313. Elementary Civilian Pilot Training—Meteorology.** 3 t.h. 16 a. \$7.00.

Prepared especially for those who wish to enter the service of the U. S. Weather Bureau, for those interested in aviation, and for prospective ground-school teachers of meteorology. Prerequisites: elementary algebra, plane geometry, and elementary physics.

Texts: Blair, *Weather Elements*, Prentice-Hall, Inc., 1942; Haynes, *Meteorology for Pilots*, Civil Aeronautics Bulletin No. 25; and *Codes for Cloud Forms and States of the Sky*, U. S. Department of Agriculture Bulletin.

**CA C 341. Secondary Civilian Pilot Training—Aerodynamics.** 4 t.h. 24 a. \$9.00.

A study of fundamental laws of physics and mechanics; properties of air and fluid motion; theory of flight and air foil; forces on wings; parasite drag; engines; propellers; straight level flight at sea level and at altitude; climbing, gliding and turning flight; dynamics of taking off; spins; performance study; high lift devices; stability; dynamic loads and load factors; and structural considerations. Prerequisites: elementary algebra, plane geometry, and elementary physics.

Texts: Jones, *Elements of Practical Aerodynamics*, third edition, 1942, John Wiley and Sons; Jones, *Aerodynamics for Pilots*, Civil Aeronautics Bulletin No. 26; *Civilian Pilot Training Manual*, Civil Aeronautics Bulletin No. 23; and *Pilot's Airplane Manual*, Civil Aeronautics Bulletin No. 27.

CA C 342. **Secondary Civilian Pilot Training—Aircraft Powerplants.** 4 t.h. 22 a. \$9.00.

A study of powerplant requirements; cycles of operation and power output factors; valve mechanisms and timing; engine design and construction; powerplant installation and lubricants; lubricant systems; fuel and fuel systems; carburetors; fuel injection; ignition systems; propellers; powerplant operation and maintenance instruments and parachutes; airplane structure and materials. Prerequisites: elementary algebra, plane geometry, and elementary physics.

Texts: Shedenhelm, *Pilot's Powerplant Manual*, Civil Aeronautics Bulletin No. 28; *Civil Pilot Training Manual*, Civil Aeronautics Bulletin No. 23; Anderson, *Pilots' Airplane Manual*, Civil Aeronautics Bulletin No. 27.

Mth C 330. **Elements of Navigation.** 3 t.h. 16 a. \$7.00 See description on page 35.

### BIOLOGY

BiS C 101. **Biological Science Survey.** 3 or 4 t.h. 16 a. \$7.00 or \$11.00.

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.

Texts: Barrows, *General Biology*, Farrar and Rinehart, 1935; Wells, Huxley, and Wells, *The Science of Life*, Doubleday, Doran & Company, 1935. Access to a good dictionary and an encyclopedia is necessary.

BiS C 102. **Biological Science Survey.** 3 or 4 t.h. 16 a. \$7.00 or \$11.00.

Texts: Same as for BiS C 101.

BiS C 103. **Biological Science Survey.** 3 or 4 t.h. 16 a. \$7.00 or \$11.00.

Texts: Same as for BiS C 101 and 102.

Z C 150. **Bird Study.** 3 t.h. 19 a. \$8.50. (See also Zoology.)

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

Text: Included in the course outline, but at least one good book on western birds will be needed for identification purposes.

### BOTANY

Bot C 150. **Elementary Botany, Plant Biology.** 3 t.h. 16 a. \$8.00.

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

Text: Holman and Robbins, *Elements of Botany*, John Wiley & Sons, Inc., or any good text in elementary botany.

Bot C 151. **Systematic Botany.** 3 t.h. 16 a. \$7.00.

Designed to acquaint the student with some typical flowering plants and with methods of describing and classifying plants. A service course for non-science majors.

Text: Any good book on Pacific coast flora.

Bot C 152. **Advanced Systematic Botany.** 3 t.h. \$7.00.

A continuation of Bot C 151.

Bot C 350. **Shrubs and Trees.** 3 t.h. 16 a. \$7.00.

Designed to acquaint students with some common shrubs and trees of the Pacific coast, and with the care and value of the national forests. Prerequisite: A college course in general botany.

Text: Sudworth, *Trees of the Pacific Slope*, Superintendent of Documents, Washington, D. C.

### BUSINESS ADMINISTRATION\*

BA C 111. **Constructive Accounting.** 4 t.h. 22 a. \$9.00.

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

Text: McKinsey and Noble, *Accounting Principles*, South-Western Publishing Company, 350 Mission Street, San Francisco, Cal.; and Working Papers for use with *Accounting Principles*.

BA C 112. **Constructive Accounting.** 4 t.h. 21 a. \$9.00.

A continuation of BA C 111.

BA C 113. **Constructive Accounting.** 4 t.h. 22 a. \$9.00.

A continuation of BA C 112.

BA C 212. **Principles of Cost Accounting.** 3 t.h. 16 a. \$7.00.

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, Samuel Waldo, *Industrial Accounting*, Prentice-Hall, Inc., 1942; and Work Book to accompany text.

BA C 487. **Advanced Cost Accounting.** 3 t.h. 16 a. \$7.00.

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, and 113 and BA C 212 or equivalents.

Text: Langar, *Cost Accounting*, Walton Publishing Company.

BA C 488. **Advanced Cost Accounting.** 3 t.h. 16 a. \$7.00.

A continuation of BA C 487. Prerequisite: BA C 487.

Text: Same as for BA C 487.

BA C 416. **Business Law.** 4 t.h. 22 a. \$9.00.

The subjects of introduction to law, persons, torts, contracts, and agency are considered.

Text: Spencer, W. H., *A Textbook of Law and Business*, McGraw-Hill Book Company.

BA C 417. **Business Law.** 4 t.h. 22 a. \$9.00.

The subjects of private property, law of finance, risk and risk bearing are considered. Text the same as for BA C 416.

\* See also Secretarial Science, page 40.

**BA C 418. Business Law.** 4 t.h. 22 a. \$9.00.

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

**BA C 425. Real-Estate Fundamentals.** 2 t.h. 12 a. \$5.00.

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, Inc., 1938.

**BA C 434. Problems in Distribution.** 4 t.h. 20 a. \$9.00.

A critical study of marketing problems.

Texts: Comish, *The Marketing of Manufactured Goods*, The Stratford Company, 1935. Other texts may be borrowed from libraries.

**†BA C 439, 440. General Advertising.** 3 t.h. 16 a. \$7.00.

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

Text: Kleppner, *Advertising Procedure* (third revised edition), 1941, Prentice-Hall, Inc.

**ECONOMICS****Ec C 150. Economic History, Section I.** 3 t.h. 16 a. \$7.00.

A study of the economic and industrial development of England and the United States, with some attention to economic movements throughout the world.

Texts: Cheney, *An Introduction to the Industrial and Social History of England*, Macmillan, 1920; Day, *A History of Commerce*, Longmans, Green and Company, 1920; Gras, *An Introduction to Economic History*, Harpers, 1922.

**Ec C 150. Economic History, Section II.** 3 t.h. 16 a. \$7.00.

A continuation of Section I. Same texts.

**Ec C 201. Principles of Economics.** 3 t.h. 16 a. \$7.00.

A study of principles that underlie production, exchange and distribution. A course for second year college students.

Texts: Fairchild, Furniss and Buck, *Elementary Economics*, Vol. 1, McGraw-Hill Book Company (third or fourth edition), 1936 or 1939; Keezer, Cutler, and Garfield, *Problem Economics*, Harpers; Patterson and Scholz, *Economic Problems of Modern Life*, McGraw-Hill Book Company, 1937.

**Ec C 202. Principles of Economics.** 3 t.h. 16 a. \$7.00.

A continuation of Ec C 201.

Texts: Same as for Ec C 201 except that assignments 10 to 16 inclusive call for Volume II of Fairchild, Furniss and Buck, *Elementary Economics*.

**Ec C 203. Principles of Economics.** 3 t.h. 16 a. \$7.00.

A continuation of Ec C 202. Same texts.

† This course is a condensation of the six term hour course given at the University of Oregon under the same title and numbers.

**Ec C 211. Outline of Economics.** 3 t.h. 16 a. \$7.00.

A brief survey of the principles of economics and of economic institutions. A service course.

Text: Kiekhofer, *Economic Principles and Problems*, D. Appleton-Century Company, Inc., 1936.

**Ec C 334. Economics of Business Organization and Finance.** 4 t.h. 22a. \$9.00.

Descriptive study of the principle characteristics of the several types of business organization and the various instruments used in financing them; also problems of promoting and organizing business concerns are considered.

Text: Crumbaker, *Organizing and Financing Modern Business*, John Wiley and Sons, Inc., 1939.

**Ec C 413. Money, Banking and Economic Crises.** 5 t.h. 33 a. \$11.00.

Principles of money, laws controlling its value, methods for measuring price levels, and devices for stabilizing purchasing power; principles underlying sound banking and use of credit, with some attention to crises and panics. Prerequisite: Principles of Economics.

Texts: Holdsworth, *Money and Banking*, Sixth Edition, 1938, D. Appleton-Century Company; White, *Money and Banking*, New Edition by Tippetts and Froman, 1938, Ginn and Company; Johnson, *Money and Currency*, Ginn and Company; Pratt, *Work of Wall Street*, D. Appleton-Century Company, Inc.

**Ec C 475. Economic Problems: Economics of the Recovery Program.** 2 t.h. 12 a. \$5.00.

A study of economic conditions producing business depression, and principles back of the recovery program.

Texts: Fairchild, Furniss, Buck and Wheldon, *A Description of the New Deal*, The Macmillan Company; Atkins, Friedrich and Wyckoff, *Economic Problems of the New Deal*, F. S. Crofts & Co.; Seven Harvard Professors, *Economics of the Recovery Program*, McGraw-Hill Book Company.

**EDUCATION****Ed C 102. Mental Hygiene.** 3 t.h. 16 a. \$7.00.

An inquiry into the habits, attitudes and proper functioning of a normal mind, which points toward the acquisition of correct "conditioned reflexes" rather than merely the prevention of mental disorder.

Texts: Burnham, *The Normal Mind*, Appleton, 1924; Groves and Blanchard, *Introduction to Mental Hygiene*, Henry Holt & Company, 1930.

Note: This course is being rewritten. After October 1, 1943, ask for a list of the new texts.

**Ed C 312. Educational Psychology.** 3 t.h. 16 a. \$7.00.

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

Texts: Sorenson, *Psychology in Education*, McGraw-Hill Book Co., 1940; and Starch, Stanton and Koerth, *Psychology in Education*, Appleton-Century Co., 1941.

**Ed C 316. Oregon School Law and System of Education.** 2 t.h. 12 a. \$5.00.

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 and Supplements*, issued by the State Superintendent of Public Instruction, Salem, Oregon, 25 cents; *Oregon Education*, the Thirty-fourth and Thirty-fifth Biennial Reports of the Superintendent of Public Instruction; the *Oregon Blue Book*, latest edition, compiled by the Secretary of State, Salem, Oregon, 25 cents; and *The Structure and Administration of Education in American Democracy*, to be secured from Educational Policies Commission, 1201 Sixteenth St., Northwest, Washington, D. C. for 50 cents.

**Ed C 350. Modern Methods of Teaching in the Upper Grades and High School.** 3 t.h. 16 a. \$7.00.

Principles of the technique of instruction; methods of teaching and class management. This course is being revised.

**Ed C 351. Health Education I.** 2 t.h. 12 a. \$5.00.

This course and the one following are for mature persons who are interested in health for themselves as well as for others, and who are interested also in methods of health education. Section I is a survey of factual material that forms a basis of health education.

Texts: Smiley and Gould, *A College Textbook of Hygiene*, Third Edition, 1940, Macmillan; and Soule and Mackenzie, *Community Hygiene*, 1940, Macmillan.

**Ed C 352. Health Education II.** 2 t.h. 12 a. \$5.00.

The purpose of this course is to help establish standards and practices in health education that are consistent with modern educational methods.

Texts: Williams and Shaw, *Methods and Materials of Health Education*, 1935, Thomas Nelson and Sons; and *Health Education*, revised edition, 1941, by the Joint Committee on Health Problems in Education, published by the National Education Association.

**Ed C 354. Introduction to Education.** 3 t.h. 16 a. \$7.00.

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

Texts: Clapp, Chase, Merriam, *Introduction to Education*, Ginn and Company, 1929; Cubberley, *Introduction to the Study of Education*, Houghton Mifflin Company, 1925.

**Ed C 422. Curriculum Construction.** 2 t.h. 12 a. \$5.00.

Place of the curriculum in the modern school; trends in curriculum development. Suitable for group study.

Texts: Caswell and Campbell, *Curriculum Development*, American Book Company, 1935; Draper, *Principles and Techniques of Curriculum Making*, D. Appleton-Century Company, Inc., 1936.

**†Ed C 454. General History of Education.** 3 t.h. 16 a. \$7.00.

A general review of the growth and development of education and its relation to the civilization of the times; from Plato and Aristotle to Dewey.

†Students may earn credit in either Ed C 454 or Ed C 455, but not both.

Texts: Cubberley, *History of Education*, Houghton Mifflin Company, 1920; Monroe, *Textbook in the History of Education*, The Macmillan Company, 1905.

**†Ed C 455. History of Modern Education.** 3 t.h. 16 a. \$7.00.

History of educators whose practices and philosophies function in our modern educational system.

Texts: Cubberley, *History of Education*, Houghton Mifflin Company, 1920; Rugg and Shumaker, *The Child-Centered School*, World Book Company; Cubberley, *Readings in the History of Education*, Houghton Mifflin Company; Parker, *History of Modern Elementary Education*, Ginn and Company.

**Ed C 460. Child Study.** 3 t.h. 16 a. \$7.00.

An inquiry into the behavior of infancy and early childhood, with emphasis upon the harmonious development of the emotional life of the child. Especially for parents.

Texts: Blanton and Blanton, *Child Guidance*, Century Co.; Van Waters, *Youth in Conflict*, New Republic Press.

**Ed C 461. Psychology of Adolescence.** 3 t.h. 16 a. \$7.00.

A study of the important physical, mental, and moral changes natural to adolescence.

Texts: Bolton, *Adolescent Education*, The Macmillan Company, 1931; Brooks, *Psychology of Adolescence*, Houghton Mifflin Company, 1929; Tyler, *Growth and Education* (may be borrowed from a library).

Note: This course is being revised. After October 1, 1943, ask for a list of new texts.

**Ed C 475. Measurement in Secondary Education.** 3 t.h. 16 a. \$7.00.

The construction and desirable uses of various standard texts and scales for measuring achievement in secondary school subjects.

Texts: Green and Jorgensen, *The Use and Interpretation of High School Tests*, Longmans Green & Company, 1936; Hawkes, Lindquist, and Mann, *The Construction and Use of Achievement Examinations*, Houghton Mifflin Company, 1936; Harter and Smeltzer, *Self Instructional Manual in Handling Test Scores*, Henry Holt & Company, 1933.

**Ed C 490. Character Education.** 3 t.h. 16 a. \$7.00.

The place of character in the social purposes of education; distinction between training and instruction; the dynamic function of the feelings; the conditioning of interests; the function of ideals; the formation of habits, the integration of habits and attitudes. Analysis of typical procedure.

Texts: Germane and Germane, *Character Education*, Silver, Burdett, & Company, 1929; Hartshorne, *Character in Human Relations*, Charles Scribner's Sons, 1932; and the following bulletins which may be secured from the National Education Association, 1201 Sixteenth Street, N.W., Washington, D.C., for 25 cents each: *Education for Character, Part I*, the Social and Psy-

† Students may earn credit in either Ed C 454 or Ed C 455, but not both.

chological Background, Vol. XII, No. 2, March, 1934; and *Education for Character*, Part II, Improving the School Program, Vol. XII, No. 3, May, 1934.

*Note: This course is being revised. After October 1, 1943, Dashiell, Fundamentals of General Psychology, Houghton Mifflin Company, 1937, will be substituted for the first text listed.*

### ENGINEERING

#### GE C 111. Engineering Drawing. 2 t.h. 10 a. \$5.00.

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, and Holcomb, *Engineering Drawing Manual*, published by Oregon State College Cooperative Association, Corvallis, Oregon.

#### GE C 112. Engineering Drawing. 2 t.h. 10 a. \$5.00.

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

**Text:** Same as for GE C 111.

#### GE C 113. Engineering Drawing. 2 t.h. 10 a. \$5.00.

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.

**Text:** Same as for GE C 111 and 112.

#### ME C 212. Mechanics (Statics). 3 t.h. 16 a. \$7.00.

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 applications; numerous problems having engineering application. Prerequisite: Differential Calculus (Mth C 201).

**Text:** Seely and Ensing, *Analytical Mechanics for Engineers*, third revised edition, John Wiley and Sons, 1941.

#### ME C 213. Mechanics (Dynamics). 3 t.h. 16 a. \$7.00.

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. Prerequisites: Calculus (Mth C 201 and Mth C 202) and ME C 212.

**Text:** Same as for ME C 212.

### ENGLISH AND LITERATURE

#### WRITTEN ENGLISH

#### Eng C 111. Principles of Good Writing. 3 t.h. 16 a. \$7.00.

This course together with the two following constitute a year course in fundamentals of composition and rhetoric equivalent to the usual freshman requirement in college English.

**Texts:** Babcock, Horn and English, *Essentials of Composition for College Students*, American Book Company, 1939; *Good Reading*, prepared and published by the Committee on College Reading, Atwood H. Townsend, chairman for the National Council of Teachers of English. An approved collegiate dictionary is also required.

#### Eng C 112. Principles of Good Writing. 3 t.h. 16 a. \$7.00.

A continuation of Eng C 111. Same texts.

#### Eng C 113. Principles of Good Writing. 3 t.h. 16 a. \$7.00.

A continuation of Eng C 112. Same texts.

#### Eng C 113sf. Principles of Good Writing (Special). 3 t.h. 16 a. \$7.00.

This is an alternate course for the third section of Principles of Good Writing, 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.

**Text:** Write to General Extension Division for information.

#### Eng C 114. Exposition, Narration and Argument. 2 t.h. 12 a. \$5.00.

This section and the two following stress composition rather than usage, although attention is given also to fundamentals of correct English expression. Section I deals with exposition.

**Texts:** Scott and Zeitlin, *College Readings in English Prose* (revised edition, 1927), The Macmillan Company; and Woods, *A College Handbook of Writing*, Doran & Company.

#### Eng C 115. Exposition, Narration and Argument. 2 t.h. 12 a. \$5.00.

This section deals with narration and description.

**Texts** same as in Eng C 114.

#### Eng C 116. Exposition, Narration and Argument. 2 t.h. 12 a. \$5.00.

This section deals with argument. Same texts as in Eng C 114.

#### Eng C 213. Introduction to Short Story Writing. 3 t.h. 16 a. \$7.00.

Studies critically the structure of typical short stories and gives 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:** Campbell and Rice, *A Book of Narratives*, D. C. Heath & Company.

#### Eng C 214. Short Story Writing. 3 t.h. 16 a. \$7.00.

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 Eng C 111, 112, 113 and Eng C 213 is required. A choice of texts is permitted.

#### Eng C 217. Business English. 3 t.h. 16 a. \$7.00.

A complete review and study of modern practices in business correspondence. Prerequisite: Eng C 111, 112, 113 or equivalent.

**Text:** McCloskey, *Handbook of Business Correspondence*, Prentice-Hall, Inc., 1932.

- Eng C 218. **Advanced Writing.** 3 t.h. 16 a. \$7.00.  
Designed for the study and practice of general magazine writing—sketches, essays, narratives, criticism, etc. Prerequisite: Eng C 111, 112, 113 or equivalent training.  
Texts: Cunliffe and Lomer, *Writings of Today* (fourth edition), Century Company; and some good handbook on English.
- Eng C 219. **Advanced Writing.** 3 t.h. 16 a. \$7.00.  
A continuation of Eng C 218. Same text.
- Eng C 220. **Advanced Writing.** 3 t.h. 16 a. \$7.00.  
A continuation of Eng C 219. Same text.
- Eng C 311. **Advanced Short Story Writing.** 3 t.h. \$11.00.  
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 Eng C 213 and Eng C 214 with proficiency, or submission of short story manuscripts of merit. Reading will be suggested by instructor.
- Eng C 314. **Book and Play Reviewing: A Course in Literary Criticism.** 3 t.h. 16 a. \$7.00.  
The writing of book reviews from either the professional or non-professional point of view. Prerequisites for this and the course following are: a college course in written English and not less than nine term hours' work in literature, or the equivalent of these in training; also, at least a bowing acquaintance with current literature.  
Text: Mallory, *Backgrounds of Book Reviewing* (1923 edition), published by George Wahr, Ann Arbor, Michigan.
- Eng C 315. **Book and Play Reviewing: A Course in Literary Criticism.** 3 t.h. 16 a. \$7.00.  
A practical and journalistic approach to play reviewing for the apprentice reviewer. Attention given to contemporary drama, jazz, the movies, musical comedy, the revue, etc. Prerequisite: same preparation in written English and literature as for Eng C 314. Text included in lesson outlines, but supplementary reading required.
- Eng C 317. **Versification.** 3 t.h. 16 a. \$7.00.  
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 & Company, 1932.
- Eng C 324. **English Composition for Teachers.** 3 t.h. 16 a. \$7.00.  
For those expecting to teach English in high schools. Prerequisite: Eng C 111, 112, 113 or equivalent.  
Texts: Ward, *What Is English?* Scott, Foresman & Company, Inc., 1925; Little and others, *Handbook for English*, Charles Scribner's Sons, 1933.

- Eng C 325. **Prose Manuscript.** 3 t.h. \$11.00.  
For those who have finished satisfactorily Eng C 311 or equivalent. Submission of 25,000 words in acceptable manuscript required. Individual problems receive careful attention. Reference readings suggested by instructor.
- Eng C 335. **Magazine Writing.** 3 t.h. \$7.00.  
Advanced instruction for persons interested in creative writing, or in professional writing for magazines is offered in this course and the one following. Consent of instructor is necessary for enrollment.  
Text: Brennecke and Clark, *Magazine Writing*, The Macmillan Company, 1932.
- Eng C 336. **Magazine Writing.** 3 t.h. \$7.00.  
A continuation of C 335. Same text.
- Eng C 1 X. **Grammar, Punctuation, and Usage Review.** No credit. \$5.00.  
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*, revised, Heath & Co., 1938.

## LITERATURE

- Eng C. 101. **Survey of English Literature.** 3 t.h. 20 a. \$7.00.  
This and the two following courses comprise a study of significant features in English literature from Beowulf to the present. For college freshmen. This first section covers the period from Beowulf to Milton.  
Text: Snyder and Martin, *A Book of English Literature*, The MacMillan Company, 1933.  
*Note:* Eng C 101, 102, and 103 are being revised on the basis of the two volume 4th edition of this text. Volume I will be used in Eng C 101 and 102, but for 102 the student will need also a copy of Wordsworth's poems or Volume II of the text. Eng C 103 will use Volume II of the text. This volume may not be available before October 1, 1943.
- Eng C 102. **Survey of English Literature.** 3 t.h. 20 a. \$7.00.  
Covers the period from Milton to Byron. Text, same as for Eng C 101.
- Eng C 103. **Survey of English Literature.** 3 t.h. 20 a. \$7.00.  
Covers the period from Byron to Hardy. Same text as for Eng C 102.
- Eng C 170. **Early American Literature.** 3 t.h. 16 a. \$7.00.  
This course and the one following trace the development of American literature from Franklin to modern times. Books chosen for reading are representative of certain conditions of American life or of the opinions of leading writers on questions of general interest.  
Texts: Well-known works of Franklin, Woolman, Crèvecoeur, Thoreau, Emerson, Lowell, Hawthorne, Poe, which may be borrowed from libraries.
- Eng C 171. **Recent American Literature.** 3 t.h. 16 a. \$7.00.  
A continuation of Eng C 170.  
Texts: Works of Howells, Deland, Herrick, Wharton, James, Wilkins, Mark Twain, and Glasgow.

**Eng C 201. Shakespeare.** 3 t.h. 16 a. \$7.00.

In this course and the two following twenty plays by Shakespeare are studied in detail and several other plays are assigned as extra reading. The three sections meet requirements of both English majors and those who wish to fulfill a norm in English.

Text: Brooke, Cunliffe and MacCracken, *Shakespeare's Principal Plays*, Century Company.

**Eng C 202. Shakespeare.** 3 t.h. 16 a. \$7.00.

A continuation of Eng C 201. Same text.

**Eng C 203. Shakespeare.** 3 t.h. 16 a. \$7.00.

Continuation of Eng C 202. Same text.

**Eng C 260. Survey of American Literature.** 5 t.h. 28 a. \$11.00.

A brief survey of American literature from the beginning to the present. Designed especially for those who are beginning the study of American literature and for those who wish to fulfill the English norm for teachers.

Text: Ellis, Pound, and Spohn, *A College Book of American Literature (Briefer Course)*, American Book Company, 1939-1940. Students should not confuse this brief edition of the book with a longer, two-volume edition.

**\*Eng C 300. English and American Poetry, 1910-1920.** 3 t.h. 16 a. \$7.00.

This course and the one following constitute a critical study of representative works of Seeger, Brooke, Teasdale, Masefield, Lindsay, Giovannitti, C. E. S. Wood, Sandburg, Masters, Frost, Lowell and others.

Texts: Monroe and Henderson, *The New Poetry*, The Macmillan Company; Seeger, *Poems*, Charles Scribner's Sons; Robinson, *Man Against the Sky*, The Macmillan Company; Masefield, *Everlasting Mercy* and *The Widow in the Bye Street*, the Macmillan Company; Giovannitti, *Arrows in the Gale*; Sandburg, *Smoke and Steel*, Harcourt, Brace & Company.

**\*Eng C 301. English and American Poetry, 1910-1920.** 3 t.h. 16 a. \$7.00.

A continuation of Eng C 300. Texts are included in the preceding list.

**\*\*Eng C 329. Contemporary English Novelists.** 3 t.h. 16 a. \$7.00.

A study of representative novels of England today and of characteristics of the newer and more recent trends in English fiction. A wide selection of novels for reading is possible.

Texts: Novels; may be borrowed from libraries.

**\*\*Eng C 361. Living Writers.** 3 t.h. 16 a. \$7.00.

A study of the literary types, except drama, as exemplified in the work of English writers of the last thirty years. Especially adapted to the use of study groups.

Text: Maugham, *Fifty Modern English Writers* (educational edition), Doubleday, Doran & Company, 1934.

\* Credit in only one of the courses with the single asterisk (\*) may be counted toward a degree, with the exception of Eng C 300 and Eng C 301, which may both be taken.

\*\* Credit in only one of the courses marked with the double asterisk (\*\*) may be counted toward a degree.

**Eng C 367. English Novel.** 3 t.h. 16 a. \$7.00.

The novel in the eighteenth century with special attention to the work of Defoe, Richardson, Fielding, Smollett, Goldsmith, Sterne, Burney, Walpole, Beckford, Radcliffe, and Godwin. Supplementary reading in the history of the novel and in the technique of fiction will also be required. Prerequisite: Survey of English Literature or its equivalent.

Texts: Novels. May be borrowed from libraries or purchased in inexpensive editions.

**Eng C 368. English Novel.** 3 t.h. \$7.00.

This course and Eng C 369 call for the study of twelve great novelists of the nineteenth century: Scott, Austen, Lytton, Kingsley, Dickens, Reade, Thackeray, Bronte, Eliot, Trollope, Meredith, and Hardy. Prerequisite: Survey of English Literature and Eng C 367 or equivalent.

Texts: Novels. May be borrowed from libraries.

**Eng C 369. English Novel.** 3 t.h. \$7.00.

A continuation of Eng C 368. Same prerequisites.

**\*\*Eng C 385. Twentieth Century Literature.** 4 t.h. 21 a. \$9.00.

A study of the novel in England since 1900. Backgrounds for reading are given and connections traced between the various movements and tendencies.

Texts: May be borrowed from public libraries.

**\*Eng C 386. Twentieth Century Literature.** 4 t.h. 21 a. \$9.00.

American imaginative literature since 1900.

Texts: Books may be borrowed from public libraries.

**Eng C 391. Nineteenth Century American Novel.** 3 t.h. 16 a. \$7.00.

A study of the origin and development of the novel in America from 1798 to 1900. Minimum required reading is sixteen novels. Books may be borrowed from public libraries.

**\*Eng C 393. Contemporary American Novel.** 3 t.h. 16 a. \$7.00.

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****Geo C 105. General Geography.** 3 t.h. 16 a. \$7.00.

This course and the two following constitute a general introduction to geography. Section I deals with physical geography.

Text. Finch and Trewartha, *Elements of Geography*, McGraw-Hill Book Co., New York, 1936.

\* Credit in only one of the courses with the single asterisk (\*) may be counted toward a degree, with the exception of Eng C 300 and Eng C 301, which may both be taken.

\*\* Credit in only one of the courses marked with the double asterisk (\*\*) may be counted toward a degree.



**Geo C 106. General Geography.** 3 t.h. 16 a. \$7.00.

This section deals with economic geography.

Text: Klimm, Starkey, and Hall, *Introductory Economic Geography*, Harcourt, Brace & Co., 1937.

**Geo C 107. General Geography.** 3 t.h. 16 a. \$7.00.

This section deals with human and regional geography.

Text: Van Valkenberg, *Elements of Political Geography*, Prentice-Hall, Inc., 1939.

**GEOLOGY****G C 250. Geology I.** 3 t.h. 24 a. \$7.00.

An elementary study of the processes of nature affecting the surface of the earth.

Text: Pirsson and Schuchert, *Introductory Geology*, John Wiley & Sons, Inc., or any good text on general geology.

**G C 251. Historical Geology.** 1½ t.h. 9 a. \$5.00.

For students who have had G C 250 or its equivalent.

Text: Pirsson and Schuchert, *Textbook of Geology, Part II, Historical Geology*, John Wiley & Sons, Inc.

**HISTORY****Hst C 204. World History.** 3 t.h. 16 a. \$7.00.

This course and the two following constitute a review of the great civilizations of the world from the Stone Age to the present.

Texts: Ferguson and Bruun, *A Survey of European Civilization*, Houghton Mifflin Co., 1939; and Caldwell, *The Ancient World*, Farrar and Rinehart Inc., 1937.

**Hst C 205. World History.** 3 t.h. 16 a. \$7.00.

A continuation of Hst C 204.

Texts: Ferguson and Bruun, *A Survey of European Civilization*, Houghton Mifflin Co., 1939; and Webster, Hutton, *History of Civilization*, D. C. Heath, 1940.

**Hst C 206. World History.** 3 t.h. 16 a. \$7.00.

A continuation of Hst C 205. Same texts.

**Hst C 207. English History I.** 3 t.h. 16 a. \$7.00.

This course and the two following constitute a general survey of English history from earliest times to the present. Section I takes the student to the beginning of the seventeenth century.

Texts: Cross, *A Shorter History of England and Greater Britain* (revised edition) 1931, The Macmillan Company; Cheney, *Readings in English History Drawn from the Original Sources*, Ginn & Company, 1908.

**Hst C 208. English History II.** 3 t.h. 16 a. \$7.00.

Covers the period from the beginning of the seventeenth century to the end of the Napoleonic Wars in 1815. Same texts as Hst C 207.

**Hst C 209. English History III.** 3 t.h. 16 a. \$7.00.

Covers the period from 1815 to modern times. Same texts as in Hst C 208.

**Hst C 341. History of Modern Europe I.** 3 t.h. 16 a. \$7.00.

This course and the two following cover the history of Europe from 1789 to modern times. Section I is concerned with the history of the chief nations of Europe from 1789 to 1815, with emphasis upon the history of France during the revolutionary and Napoleonic periods.

Texts: Gershoy, *The French Revolution and Napoleon*, F. S. Crofts & Co., 1933; and Mathews, *The French Revolution* (enlarged edition), 1923, Longmans Green & Company, or Madelin, *National History of France*, Vol. 5, translated from the French, G. P. Putnam's Sons.

**Hst C 342. History of Modern Europe II.** 3 t.h. 16 a. \$7.00.

A study of the international relations of European states from 1815 to 1871 and their internal history to 1914.

Texts: Higby, *History of Modern Europe*, Century Company, 1932; Scott and Baltzly, *Readings in European History Since 1815*, F. S. Crofts & Co., 1931.

**Hst C 343. History of Modern Europe III.** 3 t.h. 16 a. \$7.00.

Attention is given to the historical development of the relations between European states from 1871 to 1914; to attempts at imperialistic expansion before 1914; to the Great War of 1914-1918; and to attempts at new methods of international organization since 1918.

Texts: Sontag, *European Diplomatic History, 1871-1932*, Century Company, 1933; Scott and Baltzly, *Readings in European History Since 1815*, F. S. Crofts & Co., 1931.

**Hst C 371. History of the United States I.** 3 t.h. 16 a. \$7.00.

This course and the two following constitute a general history of the United States from 1750 to the present time. Section I: American Revolution to 1850.

Texts: Hockett, *Political and Social Growth of the American People, 1492 to 1865* (third edition), 1940, Macmillan; Beard, *Rise of American Civilization* (one-volume edition), 1930, Macmillan; Hart and Bolton, *American History Atlas*, Denoyer-Geppert Company, 1930.

**Hst C 372. History of the United States II.** 3 t.h. 16 a. \$7.00.

American history from 1850 to 1898.

Texts: Hockett, *Political and Social Growth of the American People, 1492-1865* (third edition, 1940), Macmillan; Schlesinger, *Political and Social Growth of the American People, 1865-1940*, Macmillan, 1941; Beard, *Rise of American Civilization*, and Hart and Bolton, *American History Atlas* (same as in Hst C 371).

Note: The text by Hockett is required in the first four lesson assignments only.

**Hst C 373. History of the United States III.** 3 t.h. 16 a. \$7.00.

American history from 1898 to the present time.

Texts: Schlesinger, *Political and Social Growth of the American People, 1865-1940* (third edition), Macmillan, 1941; Beard, *The Rise of American Civilization* (one volume edition) 1930, Macmillan.

**Hst C 377. History of Oregon.** 3 t.h. 16 a. \$7.00.

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

Texts: Clark, Down and Blue, *History of Oregon*, Row, Peterson & Company; Schafer, *History of the Pacific Northwest*, Macmillan; and the *Oregon*

*Blue Book*, published biennially by the Secretary of State, Salem, Oregon. The latest edition available should be used.

**Hst C 480. History of Hispanic America.** 3 t.h. 16 a. \$7.00.

This course and Hst C 481 and 482 deal with South America and those countries other than the United States that border on the Gulf of Mexico and the Caribbean Sea. This first subdivision of the study covers the colonial period, from about 1500 to 1800 A. D. Prerequisite: Hst C 371, 372, 373 or equivalent preparation in history of the United States.

Texts: Wilgus, *The Development of Hispanic America*, Farrar and Rinehart, Inc., 1941.

**Hst C 481. History of Hispanic America.** 3 t.h. 16 a. \$7.00.

A study of the Caribbean area, with special emphasis on the relationship of the United States to this region. Prerequisite: the same as for Hst C 480.

Texts: Wilgus, *The Development of Hispanic America*, Farrar and Rinehart, Inc., 1941; and Rippey, *Historical Evolution of Hispanic America*, F. S. Crofts and Co., second edition, 1942.

**Hst C 482. History of Hispanic America.** 3 t.h. 16 a. \$7.00.

A continuation of the study of the Caribbean area with its emphasis on the Monroe Doctrine and American imperialism, and a consideration of the development of South American republics as well as 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 480.

Texts: the same as in Hst C 481.

### HOME ECONOMICS

The following courses are offered under the supervision of Ava B. Milam, Dean of the School of Home Economics, and Azalea Sager, State Leader of Home Economics Extension, Oregon State College.

**FN C 225. Principles of Dietetics.** 2 t.h. 12 a. \$5.00.

Study of the constituents in the normal well balanced diet and the part each plays in maintaining functions of the body in health. The course aims to present the fundamental facts of nutrition in a non-technical manner.

This course is not a substitute for Nutrition in Curriculum B in the School of Home Economics, Oregon State College, as specified in its catalog, but meets the requirement in Dietetics in Curriculum A, and may be counted as an elective in Curriculum B. It may serve also as an elective for other college students and for anyone interested in nutrition.

Texts: Bogert, *Nutrition and Physical Fitness*, W. B. Saunders Company, 1940 (third edition); Rose, *The Foundations of Nutrition*, The Macmillan Company, 1938 (third edition).

**FN C 411. Food Purchasing.** 3 t.h. 16 a. \$7.00.

A study of factors involved in purchasing food for the home, such as cost and quality, food laws and regulations, etc.

This course may be taken without prerequisites if the credit is applied as a general elective. To meet requirements for students in the School of Home

Economics, this course must be preceded by a course in Food Preparation and in Elementary Economics.

Texts: Blinks and Moore, *Food Purchasing for the Home*, J. B. Lippincott Company, 1932; Monroe, Kyrk, and Stone, *Food Buying and Our Markets*, M. Barrows and Company, 1940.

**HAd C 320. Child Development.** 3 t.h. 16 a. \$7.00.

An elementary course for college students or for anyone who wishes to become acquainted with present-day knowledge of the development of the young child. To meet the requirement for major students in the School of Home Economics this course must be preceded by a course in general psychology.

Texts: Faegre and Anderson, *Child Care and Training* (fourth edition) 1937, University of Minnesota Press; Jersild, *Child Psychology*, Prentice-Hall, Inc., 1936; Thom, *Child Management* (pamphlet No. 143) 1937, Children's Bureau, Washington, D. C.; Zabriskie, *Mother and Baby Care in Pictures*, J. B. Lippincott Company, 1936.

**HAd C 340. Household Management.** 4 t.h. 22 a. \$9.00.

This course considers not only efficiency in the organization and direction of household processes and policies, but it also gives attention to household equipment and stresses the principles that are basic in developing a satisfying home. Homemakers should find it of value as it stresses practical aspects of management.

Texts: Andrews, *Economics of the Household*, The Macmillan Company, 1935; Donham, *Spending the Family Income*, Little, Brown & Company, 1933; Kyrk, *Economic Problems of the Family*, Harpers, 1933; Peet and Sater, *Household Equipment*, second edition, 1940, John Wiley & Sons.

**CT C 217. Clothing Selection.** 3 t.h. 16 a. \$7.00.

This course aims to give the student an understanding of the principles of clothing from the standpoint of art, health and economy. If followed by CT 218 and CT 219 it may be used to meet a requirement in clothing for students majoring in Home Economics.

Texts: Dooley, *Clothing and Style*, 1930, D. C. Heath & Company; Hempstead, *Color and Line in Dress* (revised edition, 1938), Prentice-Hall, Inc.; Hess, *Textile Fibers and Their Use* (revised edition, 1936), J. B. Lippincott Company; Latzke and Quinlan, *Clothing*, J. B. Lippincott Company, 1935. A list of other references required will be sent on request.

**CT C 331. House Furnishing.** 3 t.h. 16 a. \$7.00.

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 students in the School of Home Economics. May be taken as an elective.

Texts: Burris-Meyer, *Decorating Livable Homes*, Prentice-Hall, Inc., 1937; Goldstein, *Art in Everyday Life*, The Macmillan Company, revised 1932; Halbert, *Better Homes Manual*, University of Chicago Press, 1931; Jakway, *The Principles of Interior Decoration*, The Macmillan Company.

*Note:* This course is being rewritten. After October 1, 1943, do not purchase texts until you have consulted the General Extension Division.

## JOURNALISM

J C 101. **Elementary Newswriting.** 3 t.h. 16 a. \$7.00.

An introduction to the fundamentals of general reporting, interviewing, news analysis and a study of what constitutes news. As much practice as possible is given in writing news stories.

Text: Warren, *Modern News Reporting*, Harper and Brothers, 1934.

J C 400. **Feature Writing.** 3 t.h. 16 a. \$7.00.

Interpretative stories, explanations, statistical treatment of a series of individual stories, "human interest" material, how-to-do articles, experience and personality interviews, sketches, etc., are analyzed and practice work assigned. The aim of the student should be the production of articles that can be published.

Text: Patterson, *Writing and Selling Special Feature Articles*, Prentice-Hall, Inc., 1939.

J C 1 X. **Newswriting for Publicity Chairmen.** No credit. \$5.00.

Designed to be of immediate, practical service to publicity chairmen in parent-teacher associations, women's clubs, men's service clubs, and other organizations in which proper representation to the public is essential. No previous training is necessary.

Text: Harwood, *Getting and Writing News*, George H. Doran Company.

## LANDSCAPE ARCHITECTURE

L A C 290. **Lower-Division Landscape Design.** 3 t.h. 16 a. \$7.00.

The purpose of this course is to offer a program of study to assist home owners and others interested in gardens and landscape design to obtain an appreciation of the art and to learn some of the practical aspects of home grounds development. Several practical design problems are included, one of which may be the grounds of the student's own home. Credit for this course may not be applied toward a major in landscape architecture.

Text: Bottomley, M. E., *The Art of Home Landscape*, A. T. De La Mare Company, New York, N. Y., 1935; and Ramsey, L. W., *Landscaping the Home Grounds*, Macmillan, 1938.

## LATIN

Lat C 1, 2, 3. **Beginning Latin and Caesar.** 4 t.h. ea. 32 a. ea. \$9.00 ea.

The course begins with the first year book and closes with the reading of two books on Caesar's Gallic Wars.

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

Lat C 4. **Cicero.** 4 t.h. 24 a. \$9.00.

For students who have had two years of Latin in high school, or three years without Cicero. Prerequisite: Beginning Latin and Caesar.

Text: *Select Orations*, edited by D'Ooge, Benj. H. Sanborn & Co.

Lat C 101. **Latin Literature: Horace.** 3 t.h. 16 a. \$7.00.

A study of selected Odes and Epodes of Horace. Prerequisites: Cicero and Vergil.

Texts: Allen and Greenough, *New Latin Grammar*, Ginn & Co; *Horace, Odes and Epodes*, edited by Shorey and Laing, Benj. H. Sanborn & Co.

## LIBRARY METHODS

Eng C 382. **Book Selection and Evaluation.** 3 t.h. 16 a. \$7.00.

Designed to provide a general survey of the best books and authors, old and new, in various fields of writing and to interpret and apply 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, 1935; Oregon State Library, *Books for High Schools*, latest edition.

Eng C 388. **Children's Literature.** 3 t.h. 16 a. \$7.00.

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.

Terman and Lima, *Children's Reading* (second edition), 1935, D. Appleton-Century Company, Inc. Access to a fairly good library is essential.

## LITERATURE

See English and Literature 22 to 27.

## MATHEMATICS

Mth C 10. **Elements of Algebra.** 4 t.h. 24 a. \$9.00.

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, *Elements of Algebra*, Edwards Brothers, 1941.

Mth C 20. **Elements of Geometry.** 4 t.h. 48 a. \$9.00.

The essentials of plane geometry for students with less than one year of high school geometry.

Text: Stone-Mallory, *Modern Plane Geometry*, Benj. H. Sanborn & Co.

Mth C 100. **Intermediate Algebra.** 4 t.h. 24 a. \$9.00.

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

Text: Betz, *Algebra for Today, Second Course*, Ginn & Company, 1931.

Mth C 101. **Elementary Analysis I.** 4 t.h. 22 a. \$9.00.

This is Section I of a three section sequence offering a unified treatment of college algebra, plane trigonometry, and analytical geometry, and the more simple 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*, Ginn & Company, 1935 or 1941 edition.

Mth C 102. **Elementary Analysis II.** 4 t.h. 24 a. \$9.00.

A continuation of Mth C 101. Same text.

- Mth C 103. Elementary Analysis III.** 4 t.h. 22 a. \$9.00.  
A continuation of Mth C 102. Same text.
- Mth C 105. College Algebra.** 4 t.h. 24 a. \$9.00.  
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*, revised edition, 1938, Heath & Co.
- Mth C 106. Plane Trigonometry.** 4 t.h. 24 a. \$9.00.  
The usual college course which emphasizes 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: Rosenbach, Whitman and Moskovitz, *Plane Trigonometry* (with tables), Ginn and Company, 1937.
- Mth C 108. Mathematics of Finance.** 4 t.h. 22 a. \$9.00.  
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), revised edition, 1929, D. C. Heath & Company.
- Mth C 113. Introduction to Analysis (Trigonometry).** 2 t.h. 12 a. \$5.00.  
A brief course in logarithms and computational trigonometry giving the minimum essential preparation for effective service in the air corps 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* (revised edition) with tables, Appleton-Century, 1940.
- Mth C 200. Analytical Geometry.** 4 t.h. 21 a. \$9.00.  
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: Wilson and Tracey, *Analytic Geometry*, D. C. Heath & Company, 1925.
- Mth C 201. Differential and Integral Calculus.** 4 t.h. 24 a. \$9.00.  
Section I of a three section sequence designed to lay a thorough foundation for all future work in mathematics and its applications. Essentially the same course as that given under the same numbers in Oregon State College and the University of Oregon. Prerequisites: Mth C 101, 102, 103 or equivalent. \*Text: Granville, Smith and Longley, *Elements of the Differential and Integral Calculus* (1941 edition), Ginn & Company.

\* Note: The three sections of the course in Differential and Integral Calculus are being revised on the basis of the 1941 revision of this text. After July 1, 1943, students should consult the General Extension Division before purchasing a text, as the revision of the course may not be completed for some time.

- Mth C 202. Differential and Integral Calculus.** 4 t.h. 24 a. \$9.00.  
A continuation of Mth C 201. Same text.
- Mth C 203. Differential and Integral Calculus.** 4 t.h. 20 a. \$9.00.  
A continuation of Mth C 202. Same text.
- Mth C 330. Elements of Navigation.** 3 t.h. 16 a. \$8.50.  
A study of fundamental principles upon which celestial air and surface navigation are based, including application of the principles to such practical problems as locating positions at sea or in the air. Problems give practice in the use of charts, the nautical and air almanacs, altitude and azimuth tables, altitude curves and in the precomputation of a proposed flight. Prerequisites: elementary algebra and plane geometry. Texts: *The American Air Almanac* and *The American Nautical Almanac*, both published by the U. S. Naval Observatory; Ageton, H. O. 211, *Dead Reckoning Altitude and Azimuth Table*, 3rd edition, 1940, U. S. Government Printing Office; *Tables of Computed Altitude and Azimuth*, H.O. 214, Vol. 4, Latitude 30°-39° inclusive, published by the Hydrographic Office, Washington, D. C.; Weems and Eberle, *Learning to Navigate*, Pitman Publishing Corporation, Chicago, 1943; McKready, *A Beginner's Guide to the Stars*, Putnam's Sons. Dividers and parallel rulers will also be needed.
- Mth C 337. Elements of Statistics.** 4 t.h. 22 a. \$9.00.  
An elementary course in mathematical statistics intended for students of mathematics; the physical, biological and social sciences, business administration, forestry and education. It covers those elements common to all first courses in statistics, and should prepare the student for applied courses in all fields. Prerequisite: College Algebra or consent of instructor. Text: Gavett, *First Course in Statistical Method*, McGraw-Hill Book Company, 1937.
- Mth C 421. Differential Equations.** 3 t.h. 20 a. \$7.00.  
This is 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 & Company, 1934.
- Mth C 422. Differential Equations.** 3 t.h. 16 a. \$7.00.  
A continuation of Mth C 421. Same text.

## MODERN LANGUAGES

### FRENCH

- RL C 1. First-Year, First-Term French.** 4 t.h. 24 a. \$9.00.  
Text: Fraser, Squair and Coleman, *New Complete French Grammar* (1921 edition), D. C. Heath and Company.
- RL C 2. First-Year, Second-Term French.** 4 t.h. 24 a. \$9.00.  
Texts: Fraser, Squair and Coleman, *New Complete French Grammar* (1921 edition), D. C. Heath & Company; and Smith and Greenleaf, *A French Reader*, Henry Holt & Company.

**RL C 3. First-Year, Third-Term French.** 4 t.h. 24 a. \$9.00.

Texts: Fraser, Squair and Coleman, *New Complete French Grammar* (1921 edition), D. C. Heath & Company; Smith and Greenleaf, *A French Reader*, Henry Holt & Company; Carnahan, *Alternate French Review Grammar*, D. C. Heath & Company; and Buffum's edition of *Les Misérables* by Victor Hugo, Henry Holt & Company.

**RL C 4. Second-Year, First-Term French.** 4 t.h. 24 a. \$9.00.

Text: Fraser, Squair and Coleman, *New Complete French Grammar*, (1921 edition), D. C. Heath & Company, will be used as a reference grammar. Other texts are: Carnahan's *Alternate French Review Grammar*, D. C. Heath & Company; Buffum's edition of Hugo's *Les Misérables*, Henry Holt & Company; Irvin's edition of *Tartarin de Tarascon*, by Alphonse Daudet, Henry Holt & Company; and Buffum's edition of Michelet's *Historie de France*, Henry Holt & Company.

**RL C 5. Second-Year, Second-Term French.** 4 t.h. 24 a. \$9.00.

Texts: Fraser, Squair and Coleman, *New Complete French Grammar* for reference; Carnahan's *Alternate French Review Grammar*; Buffum's edition of Michelet's *Historie de France*, and also his edition of Hugo's *Les Misérables*; Williams, *Technical and Scientific French*, D. C. Heath & Company; and Anatole France, *La comédie de celui qui épousa une femme muette*, Henry Holt & Company.

**RL C 6. Second-Year, Third-Term French.** 4 t.h. 24 a. \$9.00.

Texts: Fraser, Squair and Coleman, *New Complete French Grammar* for reference; Buffum's edition of Michelet's *Historie de France*; Williams' *Technical and Scientific Reader*, D. C. Heath & Company; Schwartz' *Commercial French*, Harcourt, Brace & Company; and Balzac's *Cinq scènes de la Comédie Humaine* (special edition with vocabulary), D. C. Heath & Company.

Students who prefer to read more literary French may request substitute assignments for those in technical and Commercial French.

**GERMAN****GL C 1. First-Year, First-Term German.** 4 t.h. 24 a. \$9.00.

Text: Vos, *Essentials of German* (fifth edition), Henry Holt & Company.

Note: Later editions of this text cannot be used.

**GL C 2. First-Year, Second-Term German.** 4 t.h. 24 a. \$9.00.

Text: Vos, *Essentials of German* (fifth edition), Henry Holt & Company.

(later editions of this text cannot be used); Super, *Elementary German Reader*, Ginn & Company.

**GL C 3. First-Year, Third-Term German.** 4 t.h. 24 a. \$9.00.

Texts: Heyse's *L'Arrabbiata*, edited by S. T. Byington, Ginn & Company; Storm's *Immensee*, edited by Morgan and Wooley, Ginn & Company.

**GL C 4. Second-Year, First-Term German.** 4 t.h. 23 a. \$9.00.

Texts: Karl Heinrich, *Erzählung von Wilhelm Meyer-Förster*, edited with vocabulary by H. C. Sanborn, Newson & Company; Freytag's *Die Journalisten*, edited with vocabulary by W. T. Toy (new edition), D. C. Heath

& Company; C. N. Gould, *Handy German Grammar* for rapid review, Scott, Foresman & Company.

**GL C 5. Second-Year, Second-Term German.** 4 t.h. 23 a. \$9.00.

Texts: Heine's *Die Harsreise*, edited with vocabulary by B. J. Vos, D. C. Heath & Company; Wildenbruch's *Der Neid*, edited with vocabulary by Prettyman, D. C. Heath & Company.

**GL C 6. Second-Year, Third-Term German.** 4 t.h. 23 a. \$9.00.

Texts: Seidel, *Leberecht Hühnchen*, edited with notes and vocabulary by A. Werner-Spanhoofd, D. C. Heath & Company; Lessing, *Minna von Barnhelm*, edited with notes and vocabulary, by R. A. von Minckwitz, Ginn & Company.

**SPANISH**

*Courses listed below are intended for students whose chief concern is to acquire a reading knowledge of Spanish.*

**RL C 11. First-Year, First-Term Spanish.** 4 t.h. 24 a. \$9.00.

Texts: Seymour and Smithers, *Practical Spanish Grammar*, Longmans; Olmstead and Sirich, *First Spanish Reader*, Henry Holt & Company.

**RL C 12. First-Year, Second-Term Spanish.** 4 t.h. 24 a. \$9.00.

Texts: Same as for first term.

**RL C 13. First-Year, Third-Term Spanish.** 4 t.h. 24 a. \$9.00.

Texts: Same as for first term.

**RL C 14. Second Year, First-Term Spanish.** 4 t.h. 24 a. \$9.00.

Texts: Seymour and Smithers, *Practical Spanish Grammar*, Longmans; Sáchez-Pérez, *Leyendas Españolas*, Allyn & Bacon.

**RL C 15. Second-Year, Second-Term Spanish.** 4 t.h. 24 a. \$9.00.

Texts: Palacio Valdés, *La Hermana San Sulpicio*, edited by Gill, Henry Holt & Company; Wilkins and Alpern, *Spanish Verb Blanks*, Globe Book Company.

**RL C 16. Second-Year, Third-Term Spanish.** 4 t.h. 24 a. \$9.00.

Texts: M. Romera-Novarro, *Historia de España*, D. C. Heath & Company.

*The following courses in First-Year Spanish are for students who wish to acquire a speaking as well as a reading knowledge of the language. Much attention is given to correct pronunciation. Phonograph records on pronunciation have been prepared to supplement the lessons. Price of the records is not included in the fee.*

**RL C 11. First-Year, First-Term Spanish.** 4 t.h. 24 a. \$9.00.

Texts: Keniston, *Learning Spanish*, Holt & Co., 1941.

**RL C 12. First-Year, Second-Term Spanish.** 4 t.h. 24 a. \$9.00.

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

**RL C 13. First-Year, Third-Term Spanish.** 4 t.h. 24 a. \$9.00.

Texts: same as for RL C 12.

## PHYSICS

\*Ph C 250. **College Physics.** 3 t.h. 16 a. \$7.00.

This is section I of a three section sequence which covers mechanics, sound, heat, light, electricity, and magnetism, and an introduction to modern physics. Similar to General Physics (Ph 201, 202, 203) at the University of Oregon and at Oregon State College. Prerequisites: Elementary Algebra, Plane Geometry, and Elementary Physics.

Text: Caswell, *An Outline of Physics* (revised edition, 1938), The Macmillan Company.

\*Ph C 251. **College Physics.** 3 t.h. 16 a. \$7.00.

A continuation of Ph C 250. Same text.

\*Ph C 252. **College Physics.** 3 t.h. 16 a. \$7.00.

A continuation of Ph C 251. Same text.

Ph C 330. **Fundamentals of Radio.** 3 t.h. 16 a. \$7.00.

A study of the underlying physical principles of radio: basic electrical laws; descriptions, characteristics and applications of electronic devices; methods of measurement and analysis; descriptions of amplifiers, receivers, and transmitters with applications of amplitude modulation and frequency modulation; radio antennas and wave propagation. Prerequisites: College Algebra and College Physics or equivalent.

Texts: Everitt and others, *Fundamentals of Radio*, Prentice-Hall Inc., 1942; R.C.A. Manufacturing Co., *Receiving Tube Manual*, N. J. Harrison (Tech. Ser. RC-14); *The Radio Handbook* (9th addition), Editors and Engineers.

Ph C 350. **History and Teaching of Physics.** 3 t.h. 16 a. \$7.00.

Primarily for teachers. It presupposes a reasonable familiarity with the more elementary facts and ideas of general physics. Elementary physics is a necessary prerequisite.

Texts: Cajori, *History of Physics* (1929 edition), The Macmillan Company; Rusk, *How to Teach Physics* (1923 edition), J. B. Lippincott Company; Mann, *The Teaching of Physics*, The Macmillan Company.

Ph C 360. **Meteorology.** 3 t.h. 16 a. \$7.00.

A course designed for persons who wish to study the subject for general information and enjoyment, for those interested in aviation, and for those who wish to enter the service of the U. S. Weather Bureau. Knowledge of the material covered should fit the student for the Civil Service examination for the lower ranks of Government positions. Prerequisites: Elementary algebra, plane geometry, and elementary physics.

Texts: Blair, *Weather Elements*, Prentice-Hall, Inc., revised edition, 1942; Haynes, *Meteorology for Pilots*, Civil Aeronautics Administration Bulletin No. 25; and *Codes for Cloud Forms and States of the Sky*, according to the International System of Classification, Circular S, United States Weather Bureau, Bulletin No. 1249, Washington, D. C.

\* An additional three term hours of credit (one hour for each section) may be earned by laboratory work done in a summer session or by special arrangement during a regular term.

Ph C 462. **Advanced Meteorology.** 3 t.h. 16 a. \$7.00.

An introduction to dynamic meteorology, which is an essential part of the training of anyone aiming to become a professional meteorologist. It seeks to explain, on the basis of well-known physical principles, the more common phenomena observed in the atmosphere, particularly motions and energy transformations. Prerequisite: Ph C 360 or an equivalent knowledge of meteorology; a course in College Physics or its equivalent; a knowledge of algebra through quadratics; an elementary knowledge of trigonometry; and some familiarity with the notation of the calculus.

Text: Albright, *Physical Meteorology*, Prentice-Hall, Inc. 1939.

Ph C 463. **Advanced Meteorology.** 3 t.h. 16 a. \$7.00.

An introduction to synoptic and aeronautical meteorology intended primarily for airplane pilots and others wishing to prepare themselves for positions as meteorologists in the service of the air lines or of the United States government. It is devoted almost exclusively to synoptic meteorology, which is the study of weather conditions existing over a large area at a given time. Special emphasis is placed upon the air mass analysis system of weather forecasting. Prerequisites: an elementary course in meteorology such as Ph C 360 or its equivalent; algebra through quadratics; a course in college physics or its equivalent; an elementary knowledge of trigonometry; and some familiarity with the notation of the calculus.

Text: Taylor, *Aeronautical Meteorology*, Pitman Publishing Corporation, New York, 1938.

## PHYSIOLOGY

Z C 250. **Elementary Physiology.** 3 t.h. 16 a. \$7.00. (See also Zoology.)

An introduction to human physiology, with special emphasis on the normal functions of the various organs of the body.

Text: Martin, *The Human Body*, eleventh edition revised, 1926, Henry Holt and Company.

Note: This course is being rewritten. After October 1, 1943, the text will be *The Machinery of the Body*, by Carlson and Johnson, revised edition, 1941, University of Chicago Press.

## POLITICAL SCIENCE

PS C 201. **American National Government.** 4 t.h. 22 a. \$9.00.

The national government, with special attention to practical operation and contemporary reforms.

Texts: Beard, *American Government and Politics*, 8th edition, 1939, Macmillan; Rankin, *Readings in American Government*, 1939, D. Appleton-Century Company, Inc.

PS C 202. **American State and Local Governments.** 4 t.h. 20 a. \$9.00.

A study of the state and local governments, with special attention to practical operation and contemporary reforms in Oregon.

Texts: Macdonald, *American State Government and Administration*, The Thomas Y. Crowell Company; *Oregon Blue Book*, Secretary of State, Salem, Oregon; Mathews and Berdahl, *Documents and Readings in American Government*; Ewing and Dangerfield, *Source Book of Government and Politics*, D. C. Heath and Company.

### PSYCHOLOGY

Psy C 201. **General Psychology.** 3 t.h. 16 a. \$7.50.

The primary purpose of this section and the two following is to provide students with a scientific basis for understanding their own behavior and that of others. Sections I and II present fundamental principles.

Texts: Klein, *General Psychology*, Henry Holt & Company, 1936; Garrett, *Great Experiments in Psychology*, Century Company, 1941.

Psy C 202. **General Psychology.** 3 t.h. 16 a. \$7.50.

A continuation of Psy C 201. Same texts.

Psy C 203. **General Psychology.** 3 t.h. 16 a. \$7.50.

This section outlines the personal adjustment problems which arise out of the complexities of modern social life.

Text: Shaffer, *Psychology of Adjustment*, Houghton Mifflin Company.

Psy C 411. **Genetic Psychology.** 3 t.h. 16 a. \$7.00.

A study of the 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.

Texts: Munn, *Psychological Development*, Houghton Mifflin Company, 1938; McGraw, *Growth, A Study of Jimmy and Johnny*, D. Appleton-Century Company, Inc. 1935; Goodenough, *Developmental Psychology*, D. Appleton-Century Company, Inc., 1934.

Psy C 413. **Abnormal and Borderline Psychology.** 3 t.h. 16 a. \$7.00.

A study of different forms of abnormal behavior with emphasis on their causes. Modern methods of psychotherapy are explained and discussed. Prerequisite: Psy C 201, 202 or any good course in general psychology.

Text: Maslow and Mittlemann, *Principles of Abnormal Psychology: the Dynamics of Psychic Illness*, Harper and Brothers, 1941.

### SECRETARIAL SCIENCE\*

SS C 111. **Stenography (Gregg).** 3 t.h. 16 a. \$7.00.

This course and SS C 112 and SS C 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*, published by Oregon State College Cooperative Association, Corvallis, Oregon, 1939; and Beers and Scott, *Fundamental Drills in Gregg Shorthand*, the Gregg Publishing Company, 1932.

SS C 112. **Stenography (Gregg).** 3 t.h. 16 a. \$7.00.

A continuation of SS C 111.

Texts: Same as for SS C 111.

SS C 113. **Stenography (Gregg).** 3 t.h. 16 a. \$7.00.

A continuation of SS C 112.

Texts: Same as for SS C 112.

SS C 111. **Stenography (Thomas).** 3 t.h. 16 a. \$7.00.

The entire theory of Thomas shorthand covered in one course. Practical applications of theory principles in sentence and letter dictation. For beginners only. Especially recommended to those students for whom preparation time is of great importance.

Texts: Frick, Vietti and Thomas, *Talk and Take Thomas Natural Shorthand*, Prentice-Hall, Inc., 1940.

SS C 112. **Stenography (Thomas)** 3 t.h. 16 a. \$7.00.

A speed building course based on advanced principles and phrases of the system. Practice and dictation material, including vocabularies of representative businesses and stressing preparation for a position in the business world. Prerequisite: SS C 111 (Thomas).

Texts: *Thomas Natural Shorthand Dictionary*, Prentice-Hall, Inc., and *Advanced Readings in Thomas Natural Shorthand*, Prentice-Hall, Inc.

Note: This course is in preparation; therefore, students are asked to consult the General Extension Division before applying for it.

SS C 121. **Typing.** 2 t.h. 12 a. \$5.00.

This course and the two following cover the theory and practice of touch typing. The keyboard, speed and accuracy drills, introduction to business letters.

Text: Webb's *Simplified Typewriting, Complete Course*, Prentice-Hall, 1941. Students who have had one year of typing in high school may not take SS C 121 for credit.

SS C 122. **Typing.** 2 t.h. 12 a. \$5.00.

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

Text: Same as for SS C 121.

SS C 123. **Typing.** 2 t.h. 12 a. \$5.00

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

Text: Same as for SS C 122.

SS C 313. **Office Organization and Management.** 3 t.h. 16 a. \$7.00.

A study of the field of management as it pertains to the office and its activities in its 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 the small or moderate size offices. Provides practical training for both office worker and office manager or supervisor. This course may not be substituted for the five-hour course SS 313 required of majors in Secretarial Science.

Text: McDonald, *Office Management*, Prentice-Hall, Inc., 1941.

\* See also Business Administration, page 17.



## SOCIOLOGY

**Soc C 204. General Sociology.** 3 t.h. 16 a. \$7.00.

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.

Text: Ogburn and Nimkoff, *Sociology*, Houghton Mifflin Company, 1940.

**Soc C 205. General Sociology.** 3 t.h. 16 a. \$7.00.

A continuation of Soc C 204.

Text: Same as for Soc C 204.

**Soc C 211. General Sociology.** 3 t.h. 16 a. \$7.00.

Analysis of social organization, involving a study of human nature and social institutions; consideration of social problems, social processes and social control. A service course for students with majors in other fields. An abridgement of Soc C 204 and Soc C 205 and may not be taken with these courses for credit.

Text: MacIver, *Society: A Textbook of Sociology*, Farrar and Rinehart, Inc., 1937.

**Soc C 213. Modern Social Problems.** 3 t.h. 16 a. \$7.00.

A study of some of the more important social problems of modern times and their relation to basic principles of social organization, designed to orient the student in the field of applied sociology. Prerequisite: Soc C 204 and Soc C 205 or equivalent.

Text: Consult General Extension Division.

**Soc C 315. Criminology.** 3 t.h. 16 a. \$7.00.

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 C 211, or equivalent.

Texts: Sutherland, *Principles of Criminology* (third edition revised), 1939, Lippincott; Gillin, *Criminology* (revised edition) 1935, Century Company, Other books required may be borrowed from libraries.

**Soc C 338. Matrimonial Institutions.** 3 t.h. 16 a. \$7.00.

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 C 211, or equivalent.

Texts: Nimkoff, *The Family*, Houghton Mifflin Company; and Groves, *Marriage*, Henry Holt & Company.

**Soc C 420. Community Problems.** 2 t.h. 12 a. \$5.00.

This course is designed primarily as an analysis of community problems normally dealt with by the public health nurse, the social worker, or others interested in social organization for more harmonious and efficient communal life. The emphasis is on community health problems. Prerequisite: Soc C 204, 205 or equivalent.

Text: Bossard, *Social Change and Social Problems*, Harpers, 1934.

## ZOOLOGY

**Z C 150. Bird Study.** 3 t.h. 19 a. \$8.50 (See also Biology.)

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

Text: Included in the course outline, but at least one good book on western birds will be needed for identification purposes.

**Z C 250. Elementary Physiology.** 3 t.h. 16 a. \$7.00. (See also Physiology.)

An introduction to human physiology with special emphasis on the normal functions of the various organs of the body.

Text: Martin, *The Human Body*, eleventh edition, revised, 1926, Henry Holt & Co.

Note: This course is being rewritten. After October 1, 1943, the text will be *The Machinery of the Body*, Carlson and Johnson, (revised edition) 1941, University of Chicago Press.

## High School Courses

These courses are offered in cooperation with the office of the State Superintendent of Public Instruction, which has approved their acceptance by the principal of any high school in Oregon for credit toward graduation. Students who wish to use them toward graduation should secure the approval of their principal to insure selection of the proper course. The courses may also be used by students beyond high school age who wish to clear college entrance deficiencies.

Colleges and universities in Oregon have agreed upon these minimum entrance requirements:

Graduation from a standard high school, which in Oregon involves the completion of 16 units, 8 of which shall be required as follows: 3 units in English; 2 units in social science, comprising the state-adopted courses in United States history-civics and socio-economic problems; 1 unit in health and physical education; and 2 units selected from the fields of natural science and mathematics or the field of foreign language. Two units in either natural science or mathematics or 1 unit in each of these fields will be acceptable, but a minimum of 2 units in a single language will be required if a foreign language is selected. At the State College, to be admitted to any of the four-year curricula in engineering, except industrial arts, one unit in algebra, one-half unit in higher algebra, and one unit in geometry must be presented. A student deficient in mathematics may be admitted to a pre-engineering course for the first year, necessitating a five-year program to qualify for graduation.

Graduates from standard out-of-state high schools shall be required to present substantially the above distribution of units. Such applicants who are not residents of Oregon may be held for additional requirements demonstrating superior ability.

College credit will not be given for any of these courses, 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 40 minutes each, in one branch of study, for the school year of not less than 36 weeks.

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

### AVIATION

#### PFA C 1 E. Pre-Flight Aeronautics I. $\frac{1}{2}$ u. \$7.00.

This course and the second semester course which follows include the study of aerodynamics, meteorology, air navigation, airplane motors and aircraft communications and lay a foundation for future specialized and more advanced training in any aviation activity depending on these fields of subject matter.

Text: *Elements of Pre-Flight Aeronautics for High Schools* by an Aviation Education Research Group, Macmillan, 1942.

#### PFA C 2 E. Pre-Flight Aeronautics II. $\frac{1}{2}$ u. \$7.00.

A continuation of PFA C 1 E. Same text.

### BUSINESS

#### BA C 1 E. Introduction to Accounting. $\frac{1}{2}$ u. 24 a. \$7.00.

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 statement.

Texts: Baker, Prickett and Carlson, *20th Century Bookkeeping and Accounting* (seventeenth edition), 1934, South-Western Publishing Company; Work Book for use with *20th Century Bookkeeping and Accounting*, Chapters I-XIV.

#### BA C 2 E. Introduction to Accounting. $\frac{1}{2}$ u. 24 a. \$7.00.

A continuation of BA C 1 E.

Texts: Baker, Prickett and Carlson, *20th Century Bookkeeping and Accounting*, (seventeenth edition), 1934, South-Western Publishing Company; Work Book for use with *20th Century Bookkeeping and Accounting*, Chapters XV-XXVIII (Stock No. 529); R. W. Collins Practice Set (Stock No. 520); and French and Breen Practice Set (Stock No. 531).

#### Eng C 14 E. Elementary Commercial English. $\frac{1}{2}$ u. 24 a. \$7.00.

This course includes a 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, and Blanchard, *The English of Business*, and *The English of Business Work Book* by the same authors, Gregg Publishing Company, 1935.

#### Eng C 15 E. Elementary Commercial English. $\frac{1}{2}$ u. 24 a. \$7.00.

A continuation of Eng C 13 E, in which the student is given abundant opportunity to apply principles he has learned. Emphasis is on the art of writing naturally in business correspondence of all kinds.

Texts: Same as for Eng C 14 E.

### DRAWING

#### Mech D C 1 E. Mechanical Drawing I. $\frac{1}{2}$ u. 24 a. \$7.00.

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; ellipse; sections; shape description; working drawing; graphs, charts, maps, and tracings; lettering.

Text: French and Svensen, *Mechanical Drawing*, McGraw-Hill Book Company, Inc., 1940. 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. \$7.00.

This is the second semester of a beginning course in Mechanical Drawing and follows Mech D C 1 E. It includes working drawing; sections; auxiliary views; revolutions; threads, bolts and nuts; assembly and detail drawings; pictorial drawing; inking and tracing; development of sheet metal drawing; lettering. Prerequisite: Mech D C 1 E or equivalent.

Text: same as in Mech D C 1 E.

### ENGLISH

Note: High School English courses I, II, III, IV, V, VI, VII, and VIII are being rewritten; therefore, students who wish to enroll in these courses before

September 1, 1943, should consult the General Extension Division before purchasing texts, as the old courses may be used until the new ones are available.

**Eng C 1 E. Ninth Grade English I.** ½ u. 24 a. \$7.00.

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

Texts: Tressler, *English in Action, Book I*, revised edition, Heath and Company; Greenlaw, Elson, Keck, Miles, *Literature and Life, Book I*, revised edition, Scott, Foresman and Company.

**Eng C 2 E. Ninth Grade English II.** ½ u. 24 a. \$7.00.

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

**Eng C 3 E. Tenth Grade English III.** ½ u. 24 a. \$7.00.

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

Text: Tressler, *English in Action*, Heath and Company. Access to a good dictionary is also necessary.

**Eng C 4 E. Tenth Grade English IV.** ½ u. 24 a. \$7.00.

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

Text: Cross, Smith, Stauffer and Collette, *Good Reading, Achievement*, revised edition, Ginn and Company.

**Eng C 5 E. Eleventh Grade English V.** ½ u. 24 a. \$7.00.

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 Three and Course Four), Heath and Company; Paschall, *Creative Expression*, Harper and Bros.; Schweikert, Inglis, and others, *Adventures in American Literature*, Harcourt, Brace and Company.

**Eng C 6 E. Eleventh Grade English VI.** ½ u. 24 a. \$7.00.

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 Three and Course Four), Heath and Company; Schweickert, Inglis, and others, *Adventures in American Literature*, Harcourt, Brace and Company.

**Eng C 7 E. Twelfth Grade English VII.** ½ u. 24 a. \$7.00.

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 Three and Course Four), Heath and Company; Inglis, Cooper and others, *Adventures in English Literature*, Harcourt, Brace and Company.

**Eng C 8 E. Twelfth Grade English VIII.** ½ u. 24 a. \$7.00.

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 Three and Course Four), Heath and Company; Inglis, Cooper and others, *Adventures in English Literature*,

Harcourt, Brace and Company; and Webster, *Daily Drills for Better English* for students who need special drills.

**Eng C 9 E. Entrance English Composition.** ½ u. 25 a. \$7.00.

This course and the one following are designed to help the student correct bad habits in written and spoken English; acquire facility in the use of the right form in words, sentences and paragraphs; and learn how to apply important rules of punctuation and paragraphing in the preparation of composition. Each lesson requires from the student some piece of writing and generally the completion of an exercise of some sort of grammar, usage, or punctuation. Especially for high school seniors.

Text: Clippinger, *Written and Spoken English*, Silver, Burdett & Company.

**Eng C 10 E. Entrance English Composition.** ½ u. 25 a. \$7.00.

A continuation of Eng C 9 E. Same text.

**Eng C 11 E. Fundamentals of Written English.** ½ u. 24 a. \$7.00.

This course is planned to aid the student in acquiring clearness and accuracy in the expression of thought and feeling. Writing assignments will vary in length from the single paragraph to the longer composition, and subjects may be chosen from the student's own field of interest or experience. Attention will be given to logical organization of subject matter in themes, improvement of vocabulary, and effective sentence structure. Throughout the course drill in spelling, capitalization, punctuation, and the fundamentals of grammar will be provided for students whose writing indicates the need of it.

Texts: Clippinger, *Written and Spoken English*, Silver, Burdett & Company; William M. Tanner, *Exercises in Correct English*, Book II, Ginn & Company, 1934

Note: This course may be substituted for Eng C 9 E, Entrance English Composition, Section I, but students may not take both of these courses except on recommendation of the instructor in English.

**Eng C 12 E. English Grammar and Usage.** ¼ u. 8 a. \$5.00.

The purpose of the eight lessons in this course is to give a simple outline of English grammar and to connect with it such questions of usage as may come under each of the parts of speech. By calling attention to some of the more common errors, the student will be helped to fix correct forms in his mind. Text included in the lessons.

**Eng C 13 E. Grammar, Punctuation, and Usage Review.** ½ u. 24 a. \$7.00.

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*, revised, Heath & Co., 1938.

**Eng C 14 E. Elementary Commercial English.** ½ u. 24 a. \$7.00.

**Eng C 15 E. Elementary Commercial English.** ½ u. 24 a. \$7.00.

For description of these courses see page 45.

### LATIN

**Lat C 1 E. Beginning Latin, Sec. 1.** ½ u. 24 a. \$7.00.

This course and the one following are the equivalent of the regular high school course in first year Latin. They consist of exercises in pronunciation,

drills in grammar, and the study of supplementary material, which is aimed to give the student an understanding of the daily life and character of the Latin people.

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

Lat C 1 E. **Beginning Latin, Sec. II.**  $\frac{1}{2}$  u. 24 a. \$7.00.

A continuation of Lat C 1 E, Sec. I. Same text.

Lat C 2 E. **Caesar, Sec. I.**  $\frac{1}{2}$  u. 24 a. \$7.00.

This course and the one following are the equivalent of the regular second year work in Latin in high school. In addition to the reading in Caesar there will be drills and reviews in grammar. Supplementary material is included. Texts: *Caesar's Gallic War*, edited by Gunnison and Harley, American Book Company; Allen and Greenough, *New Latin Grammar*, Ginn and Company.

Lat C 2 E. **Caesar, Sec. II.**  $\frac{1}{2}$  u. 24 a. \$7.00.

A continuation of Lat C 2 E, Sec. I. Same texts.

### MATHEMATICS

Mth C 1 E. **Elementary Algebra, A1.**  $\frac{1}{2}$  u. 24 a. \$7.00.

This course and A2 correspond to the two semesters' work in this subject in standard high schools. A1 covers pages 1-245 of the text.

Text: Ruch and Knight, *Standard Service Algebra*, Scott, Foresman & Company, Inc.

Mth C 2 E. **Elementary Algebra, A2.**  $\frac{1}{2}$  u. 24 a. \$7.00.

A continuation of Elementary Algebra, A1, covering the remainder of the text.

Text: Same as for Elementary Algebra, A1.

Mth C 3 E. **Intermediate Algebra.**  $\frac{1}{2}$  u. 24 a. \$7.00.

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, 1931, Ginn and Company.

Mth C 4 E. **Plane Geometry, G1.**  $\frac{1}{2}$  u. 24 a. \$7.00.

The two courses in plane geometry and the one in solid geometry correspond to the three semesters' work in this subject in standard high schools.

Text: Stone-Mallory, *Modern Plane Geometry*, Benj. H. Sanborn & Co. Students who expect to take also Solid Geometry, G3, should purchase Stone-Mallory, *Modern Geometry, Plane and Solid*, in one volume.

Mth C 5 E. **Plane Geometry, G2.**  $\frac{1}{2}$  u. 24 a. \$7.00.

Text: The same as for Plane Geometry, G1.

Mth C 6 E. **Solid Geometry, G3.**  $\frac{1}{2}$  u. 24 a. \$7.00.

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

Text: Stone-Mallory, *Modern Solid Geometry*, Benj. H. Sanborn & Co.

Mth C 7 E. **Arithmetic.**  $\frac{1}{2}$  u. 24 a. \$7.00.

This course is in preparation, but will be available after September 1, 1943.

Text: Consult the General Extension Division.

### SCIENCE

Bi C 1 E. **Biology I.**  $\frac{1}{2}$  u. 24 a. \$7.00.

This course and the one following cover the study of fundamental principles in plant and animal life with special emphasis on human and everyday biology. Field work and laboratory exercises augment the text work. Current reference material will be used. A magnifying glass or access to a microscope is required.

Text: Bayles and Burnett, *Biology for Better Living*, Silver Burdett Company, 1941.

Bi C 2 E. **Biology II.**  $\frac{1}{2}$  u. 24 a. \$7.00.

This course is a continuation of Bi C 1 E and represents the second semester's work in biology. The same text is used.

Ph C 1 E. **Physics I.**  $\frac{1}{2}$  u. 24 a. \$7.00.

This is the first semester of a year course in physics.

Text: Dull, *Modern Physics*. Henry Holt. Information concerning the laboratory manual and equipment will be supplied on request.

Note: This course and Ph C 2 E are in preparation, but should be available after September 1, 1943.

Ph C 2 E. **Physics II.**  $\frac{1}{2}$  u. 24 a. \$7.00.

This is the second semester in physics, and follows immediately after Ph C 1 E.

Text: Same as for Ph C 1 E.

Ph C 1 E. **Elementary Physics.**  $\frac{3}{4}$  u. 24 a. \$10.50.

This course presents the fundamental principles of physics in an elementary manner suitable for high school students. When supplemented by a satisfactory amount of laboratory work in a high school or in a summer session, the course will be equivalent to the standard high school course. Prerequisites are Elementary Algebra and Plane Geometry.

Text: Millikan, Gale and Pyle, *Elements of Physics* (1927 edition), Ginn & Company.

Note: This course will be discontinued after October 1, 1943.

### SOCIAL STUDIES

Hst C 1 E. **Civics I.**  $\frac{1}{2}$  u. 24 a. \$7.00.

This is the first section of a course designed to give a general knowledge of the forms and functions of the various units of government in the United States. Current events receive special emphasis. Suitable for seniors in high school.

Texts: Magruder, *American Government*, Allyn & Bacon, 1937; Steinberg and Lamm, *Our Changing Government*, J. B. Lippincott Company, 1937.

Hst C 2 E. **Civics II.**  $\frac{1}{2}$  u. 24 a. \$7.00.

A continuation of Hst C 1 E. Same texts.

**Hst C 3 E. American History I.** ½ u. 24 a. \$7.00.

This course and the one following aim to give the student a good understanding of the beginnings and growth of the United States.

Texts: Muzzey, *A History of Our Country*, Ginn and Company, 1941; Barker and Commager, *Our Nation*, Row, Peterson and Company, 1941.

**Hst C 4 E. American History II.** ½ u. 24 a. \$7.00.

A continuation of Hst C 3 E. Same texts.

**Hst C 5 E. World History I.** ½ u. 24 a. \$7.00.

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

Texts: Hughes, *The Making of Today's World*, Allyn and Bacon, 1940; and Pahlow, *Man's Great Adventure*, revised 1940, Ginn & Co.

**Hst C 6 E. World History II.** ½ u. 24 a. \$7.00.

A continuation of World History I, reviewing briefly world history from the French Revolution to the present.

Texts: Same as for World History I.

**Ec C 1 E. Elementary Economics.** ½ u. 25 a. \$7.00.

This course aims to stimulate accurate thinking on economic questions, to lead students to recognition and understanding of economic principles, to emphasize the interdependence of all classes of society, and to show that all aspects of man's life are interrelated. The textbook is supplemented by use of current periodicals and by assignments of special questions and problems that may be found within the student's immediate environment.

Text: Fay and Bagley, *Elements of Economics*, The Macmillan Company, 1938.

**Soc C 1 E. Social Problems.** ½ u. 24 a. \$7.00.

This course is primarily for beginners in the study of social problems. It aims to give bases for better understanding of present-day social questions. It deals with facts and with analyses of conditions. The student is encouraged to resist propaganda and to be as impartial as possible. He is asked to give authority for all important statements of fact.

Text: Hughes, R. O., *Problems of American Democracy*, Allyn and Bacon, 1940.

**\*Soc C 2 E. Social Problems and Government I.** ½ u. 24 a. \$7.00.

This course and the one following it are designed to give the student a knowledge of social and civic problems resolved in their natural economic relationship. The course tries to make the student aware of the responsibilities and the vast possibilities of our democratic social system. Students who apply for this course should have completed at least two years of work in high school and preferably three. This prerequisite may be waived in the case of more mature students.

Texts: Hughes, R. O., *Problems of American Democracy*, Allyn and Bacon, 1940. In addition to this book the student should have at hand a late edition of one good text in civics and one in elementary economics.

**\*Soc C 3 E. Social Problems and Government II.** ½ u. 24 a. \$7.00.

A continuation of Social Problems and Government I. Same texts.

## Extension and Correspondence Services

### EXTENSION CLASSES

Classes that combine direct methods of instruction with the correspondence method will be organized whenever there is a sufficient group desiring such instruction, and the necessary arrangements can be made by the General Extension Division to provide an instructor.

**Requirements.** Usually a class cannot be organized when the initial membership is less than twenty. A group wishing to organize should decide upon the course of study it wishes to pursue, with an alternative course in case an instructor for the first cannot be secured and should put some responsible person in charge of all necessary arrangements, such as room, membership, publicity and any other details that arise in connection with such a class. A reasonable degree of permanency in membership will be expected by the General Extension Division in organizing classes, as satisfactory work cannot be done when the personnel of the group is constantly changing.

Either credit or non-credit courses will be given in classes meeting regularly and following a definite course of study under the direction of an instructor provided by the General Extension Division.

**Applications.** Applications for extension classes outside of Portland, Oregon, should be made to the General Extension Division, Oregon State System of Higher Education, Eugene, Oregon. Applications for classes in or near Portland should be made to the Portland office of the General Extension Division, 814 Oregon Building, Portland, Oregon.

### 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 ask for assistance in the preparation of study outlines. Frequently the subject on which an outline is desired is one that is especially familiar to some member of the faculty, who can suggest methods of study and bibliographies.

Correspondence courses also furnish excellent outlines for group study. Enrollment with the General Extension Division has the added advantage of giving the individual regular instruction and the opportunity to confer with the instructor regarding the work of the course.

\* These courses include so much of the material that is in the courses in Civics I and II and Social Problems that students who have completed either or both of the latter courses may not receive credit for the former.

**PUBLICATIONS OF THE GENERAL EXTENSION DIVISION**

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

**CORRESPONDENCE-STUDY CATALOG.**

Persons desiring to register for correspondence courses should write for the latest catalog.

**STATE-WIDE EXTENSION CLASSES LEAFLET.**

**CATALOG OF VISUAL INSTRUCTION AIDS.**

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

**CATALOG OF PORTLAND CENTER.**

Indicating the courses offered at the Portland Center during the regular collegiate year.

**ANNUAL HANDBOOK OF OREGON HIGH SCHOOL DEBATING LEAGUE.**

Contains the list of district directors, and questions for debate, the constitution of the League, and much other information concerning high school debating.

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

An aid to teachers whose classes listen to the School of the Air program. **KOAC RADIO PROGRAM.**

This is the regular program which is published quarterly during the school year.

**GENERAL EXTENSION JOURNAL.**

A news sheet published quarterly for the students of the General Extension Division.

Make postal orders, express orders and bank drafts payable to the General Extension Division, and send application to the General Extension Division, Oregon State System of Higher Education, Eugene

**Application for  
CORRESPONDENCE COURSES**

Name in full.....  
(Mr., Mrs., or Miss)

Address.....

Have you ever before registered for a correspondence course with this Extension Division? .....

Occupation..... Age..... Years

Amount of high school work completed and where.....

Amount of college, university, or teachers' college work completed and where.....

What degree, if any, do you hold? .....

What institution of higher education in Oregon do you expect to enter? .....

What subject do you expect to make your major? .....

What is your object in taking this course?.....

What preparation for it have you had?.....

Do you desire credit?.....

To what libraries have you access? .....

**Correspondence Course Desired**

Name of Course	Term Hours Credit	Amount of Fee
.....	.....	\$.....
.....	.....	\$.....
.....	.....	\$.....

Amount enclosed for texts and supplies..... \$.....

Total amount enclosed..... \$.....

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
CHICAGO, ILLINOIS

REPORT OF THE  
COMMISSIONERS OF THE  
LAND OFFICE

FOR THE YEAR  
1887

CHICAGO: PUBLISHED BY THE  
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