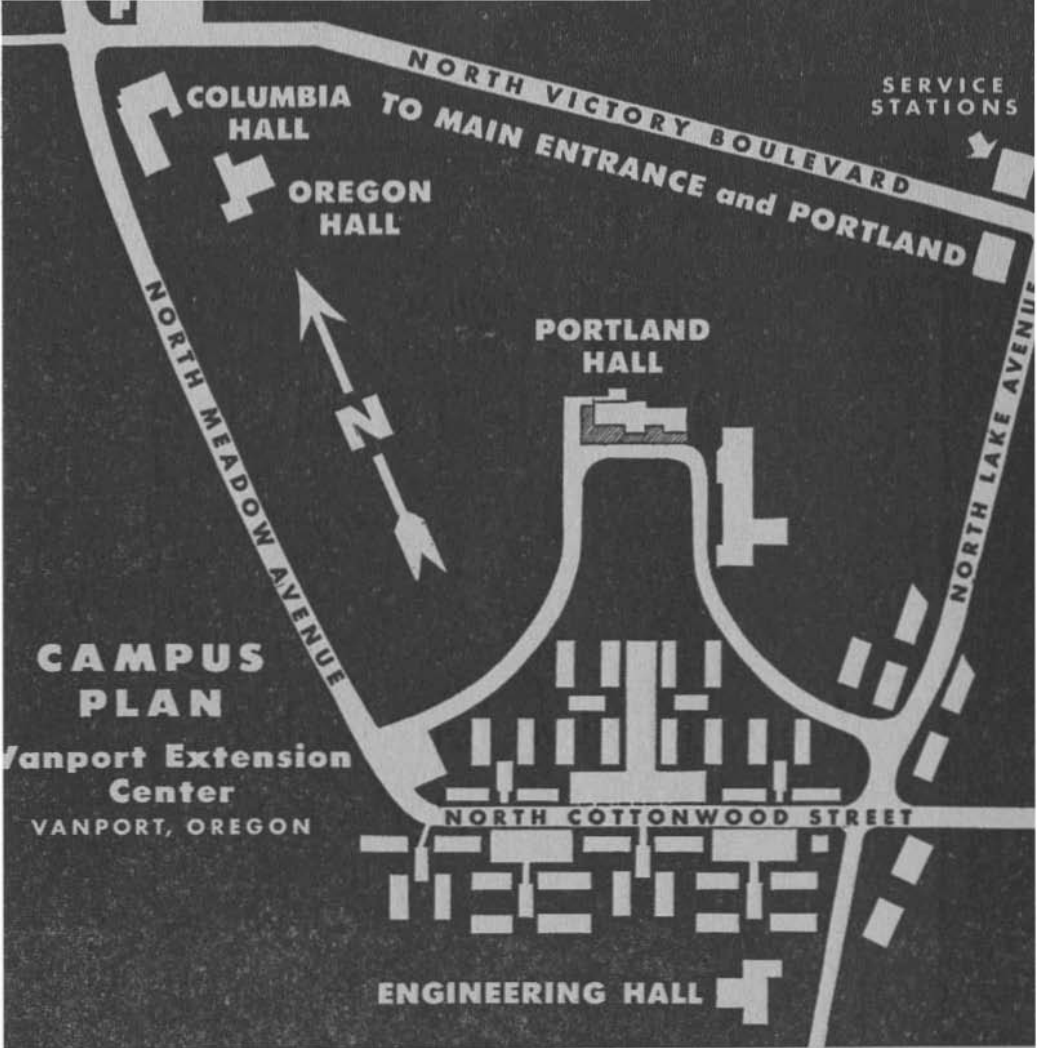


OREGON
State System of
Higher Education
BULLETIN

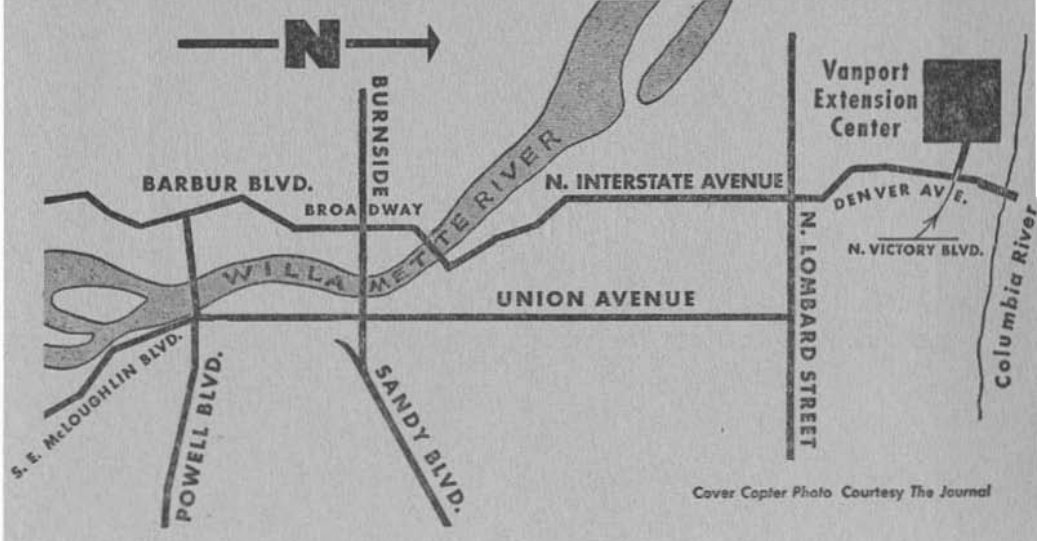


Vanport Extension Center
Catalog Issue, 1947-48

Portland 17, Oregon



ALL ROADS LEAD TO VANPORT COLLEGE



Cover Capter Photo Courtesy The Journal

**VANPORT EXTENSION
CENTER**

OF

**UNIVERSITY OF OREGON
OREGON STATE COLLEGE
OREGON COLLEGES OF EDUCATION**

**ANNOUNCEMENTS
1947-48**

**VANPORT CITY
PORTLAND 17, OREGON
TELEPHONE TYLER 0655**

State Board of Higher Education

	Term Expires
CHERYL S. MACNAUGHTON, Portland.....	1948
HERMAN OLIVER, John Day.....	1949
R. E. KLEINSORGE, Silverton.....	1950
GEORGE F. CHAMBERS, Salem.....	1951
LEIF S. FINSETH, Dallas.....	1952
PHIL METSCHAN, Portland.....	1953
HENRY F. CABELL, Portland.....	1954
EDGAR W. SMITH, Portland.....	1955
WILLARD L. MARKS, Albany	1956

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EDGAR W. SMITH.....	Vice-President

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Office of the State Board of Higher Education
Eugene, Oregon

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1947

June 1947

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ACADEMIC CALENDAR

Fall Term 1947-48

Sept. 22, *Monday*, 9 a.m.-4 p.m. Placement examinations for new students. Registration for former students.

Sept. 23-24, *Tuesday and Wednesday*, 9 a.m.-4 p.m. Registration.

Sept. 25, *Thursday*.....Classes begin

Oct. 11, *Saturday*.....Registration closes; last day for change of courses, addition of new courses, or dropping of a course without receiving "F."

Nov. 27-30, *Thursday to Sunday*..... Thanksgiving vacation

Dec. 1, *Monday*.....Last day for withdrawing from college without being held for "F."

Dec. 8-13, *Monday to Saturday* Final examinations

Winter Term 1947-48

Jan. 5, *Monday*, 9 a.m.-4 p.m.....Registration

Jan. 6, *Tuesday*..... Classes begin

Jan. 17, *Saturday*.....Registration closes; last day for change of courses, addition of new courses, or dropping of a course without receiving "F."

Mar. 5, *Friday*.....Last day for withdrawal from college without being held for "F."

Mar. 15-20, *Monday to Saturday* Final examinations

VANPORT EXTENSION CENTER

Spring Term, 1947-48

Mar. 22, *Monday*, 9 a.m.-4 p.m.....Registration

Mar. 23, *Tuesday* Classes begin

Apr. 3, *Saturday*.....Registration closes; last day for change of courses, addition of new courses, or dropping a course without receiving "F."

May 15, *Saturday*.....Last day for withdrawing from college without being held for "F."

May 21, *Friday*.....Second anniversary ceremonies

May 31-June 5, *Monday through Saturday* Final examinations

Summer Term 1948

June 12, *Saturday*, 10 a.m.....Placement examinations for new students

June 14, *Monday*, 9 a.m.-4 p.m.....Registration

June 15, *Tuesday* Classes begin

June 26, *Saturday* Registration closes; last day for change of course, addition of new courses, or dropping a course without receiving "F."

July 5, *Monday*.....Holiday (Independence day)

July 30, *Friday*.....Last day for withdrawal from college without being held for "F."

Aug. 23-27, *Monday to Friday* Final examinations

1948

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July 1948

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Oregon State System of Higher Education

PAUL C. PACKER, Ph.D., LL.D., Chancellor

HARRY K. NEWBURN, Ph.D.
President, University of Oregon

AUGUST LEROY STRAND, Ph.D.
President, Oregon State College

DAVID W. E. BAIRD, M.D., LL.D.
Dean, University of Oregon Medical School

HENRY M. GUNN, Ed.D.
President, Oregon College of Education

ELMO NALL STEVENSON, Ed.D.
President, Southern Oregon College of Education

ROBEN JOHN MAASKE, Ph.D.
President, Eastern Oregon College of Education

FREDERICK MAURICE HUNTER, Ed.D., LL.D., Honorary Chancellor

OFFICE OF THE CHANCELLOR

CHARLES DAVID BYRNE, Ed.D. Secretary, State Board of Higher Education;
Assistant to the Chancellor
RICHARD LYLE COLLINS, M.A., C.P.A. Statistician and Budget Officer
LYLE MORGAN NELSON, B.A. Director of Information
ISABEL DAVIS, B.A. Administrative Assistant

BUSINESS OFFICE

HERBERT ARNOLD BORK, M.S., C.P.A. Comptroller
PAUL AUGUST WALGREN, B.B.A. Assistant Comptroller
HAROLD ROWLEY, B.S. Chief Accountant
WILLIAM RALPH STOVALL Assistant Accountant and Property Custodian
THOMAS FRANCIS ADAMS, B.S. Cost Accountant

TEACHER EDUCATION

..... Director of High-School Teacher Training
HENRY M. GUNN, Ed.D. Director of Elementary Teacher Training

GENERAL EXTENSION DIVISION

JOHN FRANCIS CRAMER, D.Ed. Dean and Director of General Extension
HENRY EUGENE STEVENS, D.Ed. Assistant Director of General Extension

LIBRARIES

WILLIAM HUGH CARLSON, M.A. Director of Libraries
ELZIE VANCE HERBERT Head of Orders Department
MARIE HULL JACKSON, B.A., B.S. in L.S. Head Union Cataloger
JEAN ELIZABETH MEYER, M.S. Assistant Union Cataloger

HIGH-SCHOOL RELATIONS

DANIEL VANDERSOLL POLING, M.S., LL.D. High-School Visitor Emeritus

Vanport Extension Center

OREGON STATE SYSTEM OF HIGHER EDUCATION

Faculty

PAUL C. PACKER, Ph.D., Chancellor, Oregon State System of Higher Education.
B.A. (1918), Iowa; M.A. (1921), Michigan; Ph.D. (1923), Columbia; LL.D. (1938), Cornell.
JOHN FRANCIS CRAMER, Ed.D., Dean and Director of General Extension; Director of Summer Sessions, Oregon State System of Higher Education.
A. B. (1920), A.M. (1921), Willamette; M.Ed. (1932), Ed.D. (1937), Oregon.
HENRY EUGENE STEVENS, Ed.D., Assistant Director of General Extension; Graduate Adviser, Portland Extension Center.
B.S. (1936), Ed.D. (1940), Oregon.
STEPHEN EDWARD EPLER, Ph.D., Director, Vanport Extension Center.
B.A. (1932), Cotner College; M.A. (1933), Nebraska; Ph.D. (1943), Columbia.
PHIL H. PUTNAM, M.A., Assistant Director, Vanport Extension Center.
B.S. (1931), Black Hills Teacher College; M.S. (1937), Oregon.
CURTIS EDMUND AVERY, M.A., Registrar, University of Oregon and Vanport Extension Center.
B.A. (1925), Pomona College; M.A. (1928), Yale.
JEAN P. BLACK, Ph.D., Librarian; Assistant Professor.
B.A. (1924), Mount Holyoke College; M.A. (1925), Ph.D. (1928), Michigan; B.S. in L.S. (1932), Washington.
JOSEPH V. HOLLAND, M.Ed., Athletic Director; Instructor in Physical Education.
B.A. (1941), M.Ed. (1946), Willamette.
RICHARD B. HALLEY, M.S., Men's Adviser and Assistant Professor of Economics.
B.S. (1938), M.S., (1940), Oregon.
KATHERINE M. RAHL, M.A., Social Director and Women's Adviser; Instructor in Physical Education.
B.A. (1935), College of Wooster; M.A. (1939), New York University.
CARL H. BRYAN, C.P.A., Business Manager, Instructor in Business Administration.
MARGARET C. HOLLAND, B.A., Office Manager.
B.A. (1936), Oregon.

VAUGHN ALBERTSON, M.A., Assistant Professor of English.
B.A. (1928), Rice Institute; M.A. (1930), Columbia.
MARION ARNETT, B.A., Instructor in Secretarial Science.
B.A. (1929), Oregon.
WILLIAM O. BUSCHMAN, M.Ed., Instructor in Mathematics.
A.B. (1941), Reed; M.Ed. (1947), Oregon.
GORDON P. CAMPBELL, B.S., Instructor in Engineering.
B.S. in M.E. (1945), Colorado.

- JAMES W. COOMBS, B.S., Instructor in Engineering.
B.S. (1929), Oregon.
- ARTHUR L. CROOKHAM, M.A., Instructor in Journalism.
A.B. (1912), Southwestern College; M.A. (1913), Kansas.
- ARTHUR DOWLING, B.A., Instructor in English.
B.A. (1938), Duke.
- PAUL M. DUNN, M.S.F., Professor of Forestry; Dean, School of Forestry.
B.S. (1923), M.S. (1933), Iowa State.
- FRANK F. EATON, J.U.D., Assistant Professor of Mathematics and German.
J.U.D. (1924), Hamburg University.
- MILDRED FLANAGAN, M.A., Assistant Professor of Mathematics.
B.A., (1933), Henderson State Teacher's College, Arkansas; M.A., (1935), Arkansas.
- CALVIN B. FOULK, M.A., Instructor in Zoology and Botany.
B.A., (1921), M.A., (1922), Denver.
- ALVA W. GRAHAM, Ed.D., Instructor in Psychology.
B.S., (1927), M.A. (1934), Northwestern; Ed.D. (1946), Oregon.
- EUGENE GULDEMANN, M.S., Assistant Professor of Engineering; Head of Department.
B.S., (1942), North Dakota Agricultural College; M.S. (1946), Oregon State.
- PAUL W. HELLER, B.S., Instructor in Physics.
B.S. (1920), Coe College.
- GEORGE C. HOFFMAN, M.A., Assistant Professor of Political Science.
A.A. (1938), Los Angeles City College; B.A. (1939), M.A. (1940), University of Southern California.
- C. A. HUBBARD, D.Sc., Instructor in Zoology.
B.Ed. (1921), M.Ed. (1930), M.S. (1931), Washington; D.Sc. (1932), Pacific.
- JOHN F. JENKINS, B. S., Instructor in Mathematics.
B.S. (1932), Linfield.
- ERWIN F. LANGE, M.S., Assistant Professor of Chemistry.
B.A. (1933), Willamette; M.S. (1936), Oregon.
- RAY L. LAPHAM, M.A., Instructor in English.
B.A. (1919), Reed; M.A. (1925), Oregon.
- ELLA G. LITCHFIELD, M.A., Assistant Professor of English.
B.Ed. (1932), Mankato State Teacher's College; M.A. (1934), Minnesota.
- ROBERT N. MERZ, M.A., Assistant Professor of Sociology.
B.A. (1936), Detroit Institute of Technology; A.M. (1937), Wayne; A.M. (1941), Chicago.
- CARROLL K. O'ROURKE, B.S., Instructor in Journalism.
B.S. (1939) Montana State.
- DONALD D. PARKER, M.B.A., Assistant Professor of Accounting.
B.A. (1941), Linfield; M.B.A. (1942), Northwestern.
- FRANK L. ROBERTS, Ph.M., Assistant Professor of English; Head of Department.
B.A. (1938), Pacific; Ph.M. (1943), Wisconsin.
- RUTH S. SEVERSON, B.S., Instructor in Secretarial Science.
B.S. (1939), Oregon State.
- THOMAS A. SHOTWELL, M.S., Instructor in Physics.
B.Sc. (1917), Linfield; M.S. (1931), Oregon.

- RICHARD E. SMITH, B.S., Instructor in Engineering.
B.S. (1941), Oregon State.
- RICHARD B. WALTON, B.A., Assistant Professor of Physics.
B.A. (1943), Oregon State.
- CATHERINE W. WEAVER, M.A., Instructor in English.
A.B. (1918) Michigan; M.A. (1929) Texas Christian.
- FOUR—VANPORT
- DONALD V. WEAVER, B.A., Instructor in Mathematics.
A.B. (1925), Harvard.
- HILDEGARD WEISS, M.A., Instructor in English.
B.A. (1940), La Verne College; M.A. (1946), California.
- CLARENCE WICK, B.S., Instructor in Architecture.
B.S. (1931), Oregon.
- WARREN W. WILCOX, Ph.D., Assistant Professor of Psychology.
A.B. (1924), Dakota Wesleyan University; A.M. (1929), Ph.D. (1932), Kansas.
- VERN WILSON, B.M., Instructor in Music.
B.M. (1934), M.S. (Mus. Ed. 1937), Idaho.

General Information

History. Vanport Extension Center, the newest addition to the Oregon State System of Higher Education, was organized primarily to care for the overflow from the other institutions of the State System of Higher Education. The Center opened in the summer of 1946 with an initial enrollment of two hundred twenty-one students. During the first year of operation, approximately two thousand students took work at Vanport. Vanport Extension Center is part of the General Extension Division of the Oregon State System of Higher Education. Credits may be transferred as residence credit to the University of Oregon, Oregon State College, or the colleges of education. Non-resident students, however, must meet admission requirements of the institution to which they transfer. Non-veterans and veterans have been admitted from the beginning.

Campus. The Vanport Extension Center is located in a federal housing project operated by the Housing Authority of Portland. Much of the laboratory work and classes requiring special equipment are held in existing facilities in Portland, including the University of Oregon Dental School and a number of Portland public high schools. The buildings in Vanport include a recreation center which contains a modern gymnasium, a student union center, classrooms, and offices. The Engineering building is equipped with modern drawing tables. Columbia Hall houses the library, six classrooms, and the administrative offices. Oregon Hall has four classrooms and a zoology laboratory.

State scholarships. A limited number of scholarships is awarded annually to students of the institutions and of the extension division of the Oregon State System of Higher Education. These scholarships cover tuition, laboratory and course fees. Recipients of scholarships must pay certain special fees. At least fifty per cent of the scholarships are awarded to entering freshmen. To be eligible, an entering student must rank in the upper third of his graduating class. Students who have previously attended an institution of higher learning must have a grade-point average of 2.50. All applicants must be in need of financial assistance. Applications should be made on the official blanks. Copies of these blanks can be obtained from the director of the Vanport Extension Center.

Veterans' information. All veterans who are planning to attend the Vanport Extension Center are urged to make application through the Veterans' Administration for a Certificate of Eligibility and Entitlement. The presentation of this certificate will enable veterans to register and receive books and supplies at government expense under the "G.I. Bill of Rights." Without this certificate, veterans will be responsible for their own fees and books. A refund may be made when the certificate is received. Veterans who have used a Certificate of Eligibility at another institution should apply to the Veterans' Administration for a supplemental certificate for the Vanport Center. The Veterans' Administration has a training officer at the Vanport Center two days a week to advise and assist veterans with their problems.

Athletic program. The athletic and recreational program includes football, basketball, baseball, track, skiing, golf, softball, tennis, and other

activities. An intramural program is provided for those interested. Regular physical education activity classes may be taken for credit. Hikes and trips to scenic places are part of the program.

Student clubs and social activities. All-school mixers, dances, and other social and entertainment features are part of the social program. A number of student clubs have been organized. These include the Wives' Clubs, Engineering Club, Ski Club, "Tab and Tread" (Dramatics Club), Business Administration Club, Student Council, Pre-Law Club, Golf Club and Student Cooperative.

Admission. 1. For information and application write:

Director, Vanport Extension Center
Oregon State System of Higher Education
Portland 17, Oregon
Telephone: TYler 0655

2. To obtain a furnished apartment in Vanport City, apply in person to Housing Authority of Portland, 9015 N. Foss Street, Portland, Oregon (Telephone Tyler 0288). Information about apartments will be sent by mail. Applications should be made at once to avoid delay.

3. Veterans should apply by mail or in person for "Certificate of Eligibility and Entitlement" to receive government educational benefits at Veterans' Administration, 614 S. W. 11th Avenue, Portland, Oregon (Telephone ATwater 5225). Since considerable time is required to process applications, they should be made promptly.

4. Have the record of your high school work (and college work if any) sent to the Vanport Extension Center.

Portland Extension Center. The Portland Extension Center of the State System of Higher Education offers many undergraduate and graduate courses, some of which are open to lower division students. It is possible for a student to take courses simultaneously at the Portland Center and the Vanport Center. Copies of the catalog may be obtained from the Portland Extension Center, 220 S. W. Alder Street, Portland 4, Oregon.

Fees and Refunds

Fees are payable at the time of registration. The Oregon State System of Higher Education reserves the right to change the schedule of fees and refunds without notice. Registration is not complete until all fees are paid. Checks should be drawn to the order of the Vanport Extension Center. Students are held responsible for knowledge of fees and dates of payment.

REGISTRATION FEES

Full-time Students. Students registering for more than 3 credit hours:	
Registration and laboratory fee (including \$5.00 for educational and athletic activities)	\$32.00
Nonresident Tuition	70.00

Part-time Students and Auditors. Students registering for 3 credit hours or less:

No. Cr. Hours	Incidental & Lab. Fees	Educ. & Athl. Activities Fee	Total Fee
1	\$ 8.00	\$ 5.00.....	\$13.00
2	16.00	5.00.....	21.00
3	24.00	5.00.....	29.00

SPECIAL FEES

Matriculation Fee\$5.00

Undergraduate students registering in Vanport Extension center for the first time pay a matriculation fee of \$5.00. This fee is not refundable.

Late-registration Fee\$1.00 to \$5.00

Students registering after the scheduled registration dates will pay a late-registration fee of \$1.00 for the first day and \$1.00 for each additional day until a maximum charge of \$5.00 is reached. Part-time students and auditors are not required to pay the late-registration fee.

Change-of-program Fee 1.00

The student pays this fee for each change in his official program after the scheduled last day for adding courses.

Reinstatement Fee 2.00

If for any reason a student has his registration canceled during a term for failure to comply with the regulations of the institution, but is later allowed to continue his work, he must pay the reinstatement fee.

Transcript Fee 1.00

This fee is charged for each transcript of credits issued after the first, which is given free of charge.

FEE REFUNDS

Students who withdraw from the Vanport Extension Center and who have complied with the regulations governing withdrawals are entitled to certain refunds of fees paid depending on the time of withdrawal. The refund schedule has been established by the state board of higher education and is on file in the college office. All refunds are subject to the following regulations:

(1) Any claim for refund must be made in writing before the close of the term in which the claim originated.

(2) Refunds in all cases are calculated from the date of application for refund and not from the date when the student ceases attending classes, except in unusual cases when formal withdrawal has been delayed through causes largely beyond the control of the student.

Academic Regulations

Admission

In order to be admitted to Vanport Extension Center a student must be of good moral character and must present evidence of acceptable preparation for work at the college level.

A person applying for admission to freshman standing must submit a record of his high-school work on an official application form. Copies of this form may be obtained from high-school principals or from the Director of Vanport Extension Center. This record must be certified by the principal or

superintendent of the applicant's school. A person applying for admission with advanced or graduate standing must submit a certified transcript of previous college work (and a record of high-school work if this is not included on the college transcript).

Admission to Freshman 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 are 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 subjects will be acceptable; but a minimum of 2 units in a single language will be required if a foreign language is selected. In order to be admitted to any of the four-year curricula in engineering, except industrial arts, a student must present one unit in elementary algebra, one-half unit in higher algebra, and one unit in plane geometry. A student deficient in mathematics may be admitted but must make up his deficiency before carrying the standard engineering program.

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

Regulations Regarding Nonresident Fee

The Oregon State Board of Higher Education has defined a nonresident student as a person who comes into Oregon from another state for the purpose of attending one of the institutions under the control of the board.

In order to draw a clear line between resident and nonresident students the board has ordered that all students in the institutions under its control who have not been domiciled in Oregon for more than one year immediately preceding the day of their first enrollment in the institution shall be termed nonresident students, with the following exceptions:

(1) Students whose father (or mother, if the father is not living) is domiciled in the state of Oregon.

(2) Children of regular employees of the federal government stationed in the state of Oregon.

(3) Students holding bachelor's or higher degrees from higher educational institutions whose work is acceptable as preparation for graduate work.

(4) Students in summer sessions.

Academic Procedure

The regular academic year throughout the state system of higher education is divided into three terms of approximately twelve weeks each. The

summer sessions supplement the work of the regular year (write for catalog). Students may enter at the beginning of any term.

Students are held responsible for familiarity with Vanport Extension Center requirements governing such matters as the routine of registration, academic standards, student activities, organizations, etc.

Definitions

A **TERM** is a division of the academic year and is approximately three months in length.

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 integrated cultural or professional education, i.e. preidental curriculum.

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. The number of lecture, recitation, laboratory, or other periods per week for any course may be found in the course descriptions in this catalog, or in the separately published **SCHEDULE**.

Course Numbering System

Courses throughout the State System of Higher Education are numbered as follows:

- 1-99. Courses in the first two years of foreign language, or other courses of similar grade.
- 100-110.
- 200-210. Survey or foundation courses that satisfy the lower-division group requirements in the language and literature, science and social science groups.
- 111-199,
- 211-299. Other courses offered at first-year and second-year level.
- 300-699. Upper-division and graduate courses.

Grading System

The quality of student work is measured by a system of grades and grade points.

Grades. The grading system consists of: four passing grades, A, B, C, D; failure to take final examination, E; failure, F; incomplete, I; withdrawal, W. The grade of A denotes exceptional accomplishment; B, superior; C, average; D, inferior. Students ordinarily receive one of the four passing grades or F, failure. When the quality of the work is satisfactory, but some minor but essential requirement of the course has not been completed, for reasons acceptable to the instructor, a report of I may be made and additional time granted. Students may withdraw from a course by filing the proper blanks at the office in accordance with Vanport Extension Center regulations. A student who discontinues attendance in a course without official withdrawal

receives a grade of F in the course. An E may be removed by taking a make-up final after presenting to a faculty committee satisfactory evidence of reason for not taking the regular final; an E not removed within the first term after a student's return to the institution becomes an F.

Points. Grade points are computed on the basis of 4 points for each term hour of A grade, 3 points for each term hour of B, 2 points for each term hour of C, 1 point for each term hour of D, and 0 points for each term hour of F. Marks of I, W, and E are disregarded in the computation of points. The grade-point average (GPA) is the quotient of total points divided by total term hours in which A, B, C, D, and F are received. The grade-point average that is used as a standard of acceptable scholarship and as a requirement for graduation is computed on all work for which the student receives credit—including work for which credit is transferred, correspondence study, and work validated by special examination.

Scholarship Regulations

The regulations governing scholarship requirements are made by a faculty committee. This committee has discretionary authority in the enforcement of rules governing probation, and also has authority to drop a student from Vanport Extension Center when it appears that his work is of such a character that he cannot continue with profit to himself and with credit to the institution. In general, profitable and creditable work means substantial progress toward meeting graduation requirements.

A lower-division student is automatically placed on probation if his grade-point average for any term is below 1.50. He is not released from probation until his grade-point average for a subsequent term is at least 1.75.

Requirements for Certificates

The *Junior Certificate* admits to upper-division standing in other institutions of the Oregon State System of Higher Education and the opportunity to pursue a major curriculum leading to a degree. A student may fulfill the requirements for the Junior Certificate during his two years at Vanport Extension Center. The requirements are as follows:

- (1) Term Hours: Minimum, 93.
- (2) Grade-Point Average: Minimum, 2.00.
- (3) English:
 - (a) Freshmen who do not obtain a satisfactory rating in the English placement examination required upon entrance must take and pass the course designated Rhetoric K.
 - (b) English Composition: 9 term hours unless excused. A student whose work meets the standards aimed at may, at the end of any term, with the consent of the head of the Department of English, be excused from further required written English.
- (4) Physical Education: 5 terms in activity courses unless excused. (Veterans are excused.)
- (5) Health Education:

PE 250 will satisfy the requirement for men or women. Veterans are excused.

(6) Group requirements: A prescribed amount of work selected from three "groups" representing comprehensive fields of knowledge. The three groups are: language and literature, science, social science. Courses that satisfy group requirements are numbered from 100 to 110 and from 200 to 210. The group requirements are as follows:

(a) For students in liberal arts and sciences—At least 9 approved term hours in each of the three groups and at least 9 additional approved term hours in courses numbered 200-210 in any one of the three groups.

(b) For students in the professional and technical schools—at least 9 hours in two of the following: English literature or upper-division foreign language; science; social science.

If a student cannot meet this requirement by the end of the sophomore year fulfillment may be deferred by agreement between the dean of the school concerned and the Academic Requirements Committee, such agreement to be filed in the registrar's office.

The Lower-Division Certificate recognizes the successful completion of two years of lower-division work. This certificate is granted upon request to students whose desire has been to round out their general education. It does not require the scholastic average specified for the Junior Certificate, and does not admit to upper-division standing.

Group Courses

Year sequences applicable in meeting group requirements are listed below. These courses may also be taken as electives. Descriptions of the courses are given later in this catalog.

LANGUAGE AND LITERATURE GROUP

English

Eng 101, 102, 103. Survey of English Literature, 3 hours each term.
Eng 104, 105, 106. Appreciation of Literature, 3 hours each term.
Eng 201, 202, 203. Shakespeare, 3 hours each term.

SCIENCE GROUP

Botany

Bot 201, 202, 203. General Botany, 3 hours each term.

Chemistry

Ch 201, 202, 203. General Chemistry, 3 hours each term.
Ch 204, 205, 206. General Chemistry, 5 hours each term.

Mathematics

Mth 100. Intermediate Algebra, 4 hours.
Mth 101, 102, 103. Elementary Analysis, 4 hours each term.
Mth 108. Mathematics of Finance, 4 hours.
Mth 109. Elements of Statistics, 4 hours.
Mth 201, 202, 203. Differential and Integral Calculus, 4 hours each term.

Physics

Ph 111, 112, 113. Engineering Physics, 3 hours each term.
Ph 201, 202, 203. General Physics, 4 hours each term.

Psychology

*Psy 201, 202. General Psychology, 3 hours each term.
*Psy 204. Psychology of Adjustment, 3 hours.
*Psy 205. Applied Psychology, 3 hours.
*Psy 208, 209, 210. General Psychology Laboratory, 1 hour each term.

* Psy 208, 209, 210 must be taken with Psy 201, 202, 204 or Psy 201, 202, 205 to satisfy the science group requirement.

SOCIAL SCIENCE GROUP

Anthropology

Anth 207, 208, 209. Introduction to Cultural Anthropology, 3 hours each term.

Economics

Ec 201, 202, 203. Principles of Economics, 3 hours each term.

History

Hst 104, 105, 106. History of Western Europe, 3 hours each term.
Hst 201, 202, 203. History of the United States, 3 hours each term.
Hst 204, 205, 206. World History, 3 hours each term.
Hst 207, 208, 209. English History, 3 hours each term.

Political Science

PS 201, 202, 203. American Governments, 3 hours each term.

Psychology

Psy 201, 202. General Psychology, 3 hours each term.
Psy 204. Psychology of Adjustment, 3 hours.
Psy 205. Applied Psychology, 3 hours.

Sociology

Soc 204, 205, 206. General Sociology, 3 hours each term.

Recommended Courses for Major Fields

The following courses are available at Vanport Extension Center and are recommended to students taking the major fields listed. More complete information on the requirements of the basic fields may be made by consulting the catalogs of University of Oregon, Oregon State College, and Colleges of Education. Nonveterans in addition to courses listed below are required to take Physical Education. Titles of the courses and their descriptions may be found in a later section of this catalog.

PREAGRICULTURE

Freshman Year

Ch 204, 205, 206
Bot 201, 202, 203
Ec 201, 202, 203 or PS 201, 202, 203

Z 201, 202, 203
Sp 111 or J 111
Rht 111, 112, 113

ARCHITECTURE

Freshman Year

AA 111, 112, 113
Mth 101, 102, 103
Soc 204, 205, 206 or Ec 201, 202, 203, or
BA 111, 112, 113

Ph 201, 202, 203, or Cr 204, 205, 206
Rht 111, 112, 113

BUSINESS ADMINISTRATION

Freshman Year

BA 111, 112, 113
Mth 100, 105, 108
Eng 101, 102, 103 or
Mus 127, 128, 129 or
Elective Courses
Rht 111, 112, 113

Sophomore Year

BA 212, 213
BA 222, 223
Ec 201, 202, 203
Rht 217
Elective in English, Speech,
Social Science, Foreign Language

PREDENTAL

Freshman Year

Z 201, 202, 203
Ch 204, 205, 206
Mth 101, 102, 103
Rht 111, 112, 113

Sophomore Year

Z 324, 325, 326
Ch 226, 227, 234
French or German
Literature or Social Science

*ENGINEERING

Freshman Year

GE 101, 102, 103
GE 121, 122, 123
Mth 101, 102, 103

Ph 101, 102, 103*
Rht 111, 112, 113

* Chemical Engineers take Ch 204, 205, 206 in place of Physics.

PREFORESTRY*Freshman Year*

F 111
Bot 201, 202
Mth 101, 102, 103

Sp 111
PS 201, 202, 203
Rht 111, 112, 113

JOURNALISM*Freshman Year*

J 111, 112, 113
Eng 101, 102, 103
Social Science
Foreign Language or
Mathematics

Sophomore Year

J 311, 312, 313
Foreign Language or Social Science or
Science
Electives

PRELAW*Freshman Year*

BA 111, 112, 113
Hst 201, 202, 203
PS 201, 202, 203
Eng 101, 102, 103
Rht 111, 112, 113

Sophomore Year

Hst 207, 208, 209
Ec 201, 202, 203
Science or Mathematics or Literature
Psy 201, 202 (204 or 205)
Electives

LIBERAL ARTS*Freshman Year*

Eng 101, 102, 103
Social Science
Science or Mathematics
French, German, or Spanish
Rht 111, 112, 113

Sophomore Year

2nd year Major Field or Foreign Language
Literature
Social Science or Science
Elective

PREMEDICAL*Freshman Year*

Z 201, 202, 203
Ch 204, 205, 206
Mth 101, 102, 103
Rht 111, 112, 113

Sophomore Year

Z 324, 325, 326
Ch 226, 227, 234
French or German
Literature or Social Science

PREPHARMACY*Freshman Year*

Ch 204, 205, 206
Z 201, 202, 203

Soc 204, 205, 206 or Psy 201, 202, 204
or Ec 201, 202, 203
Rht 111, 112, 113

PREPHYSICAL EDUCATION*Freshman Year*

Z 201, 202, 203
Mth 10, 100, 105

Ch 204, 205, 206
Rht 111, 112, 113

SECRETARIAL SCIENCE*Freshman Year*

SS 111, 112, 113
SS 121, 122, 123

Literature or Science
Rht 111, 112, 113

Description of Courses

FOR an explanation of the course numbering system see page 14. The hours indicated following the course title represent the term hours of credit which may be earned. The Vanport Extension Center reserves the right to discontinue any announced course because of insufficient enrollment or for other reasons.

ANTHROPOLOGY

Anth 207, 208, 209. **Introduction to Cultural Anthropology.** 3 hours each term. The meaning of culture; its significance for human beings; its diverse forms and degrees of elaboration among different groups of men; its processes of growth and expansion.

ARCHITECTURE

AA 111, 112, 113. **Graphics I.** 2 hours each term. Principles of orthographic projection or descriptive geometry; applications to the construction of plans and elevations, projections of points, lines and planes, and correct location of shades and shadows.

ASTRONOMY

(See Physics)

BUSINESS ADMINISTRATION

- BA 111, 112, 113. **Constructive Accounting.** 3 hours each term. Technique of account construction; preparation of financial statements. Application of accounting principles to practical business problems. Required of majors; prerequisite to advanced work in business.
- BA 212. **Principles of Cost Accounting.** 3 hours. Basic principles of cost accounting; departmentalization; expense allocation; designed primarily for students interested in general accounting. Prerequisite: B.A. 111, 112, 113.
- BA 213. **Analysis of Financial Statements.** 3 hours. Managerial accounting for effective management and control of industrial and trading concerns. Preparation, analysis, and interpretation of balance sheets and operating reports. Prerequisite: BA 111, 112, 113.
- BA 222. **Elements of Finance.** 4 hours. The financial problems of corporations. Organization of corporations; how they obtain long-term funds; management of working capital; distribution of securities. Required of all majors. Prerequisite: BA 111, 112, 113.
- BA 223. **Elements of Marketing.** 4 hours. Methods, policies, and problems. Private and cooperative channels, auctions, exchanges, middlemen; demand creation, assembly, standardization, packaging, financing, risk taking, distribution.
- BA 385. **Accounting for Technical Students.** 3 hours. An abbreviated course covering the general principles of accounting. The ultimate aim is to prepare the student to read and interpret accounting facts, rather than to construct accounts.
- BA 386. **Accounting for Technical Students.** 3 hours. The accounting peculiar to partnerships and corporations; preparation, analysis, and interpretation of financial statements. Prerequisite: BA 385.

BOTANY

Bot 201, 202, 203. **General Botany.** 3 hours each term.

Structure and functions of higher plants; chief groups of plants, reproduction and genetics; plant identification. Prerequisite to further work in botany. One lecture; 1 recitation; 2 two-hour laboratory periods.

CHEMISTRY

Ch 204, 205, 206. **General Chemistry.** 4 or 5 hours each term.

A year sequence. Ch 204 and 205 are devoted primarily to the basic principles of general chemistry, Ch 206 includes a study of qualitative analysis and other subjects not covered in the more elementary courses. For students majoring in chemistry or chemical engineering, and others requiring extensive knowledge of the subject: Two lectures; 1 recitation; 2 three-hour laboratory periods. (For 4 hours; 1 three-hour laboratory period.)

Ch 226. **Organic Chemistry.** 5 hours.

Carbon compounds of the aliphatic series. Prerequisite: Ch 206 or Ch 103. 2 lectures; 1 recitation; 2 three-hour laboratory periods.

Ch 227. **Organic Chemistry.** 5 hours.

An intensive study of the chemistry of the aromatic series. Prerequisite: Ch 226.

Ch 231. **Advanced Qualitative Analysis.** 5 hours fall.

Advanced theory of qualitative analysis and examination of commercial products. Prerequisite: Ch 206. Two lectures; 3 three-hour laboratory periods.

Ch 232, 233. **Quantitative Analysis.** 5 hours.

Fundamental principles and laboratory practice. Prerequisite: Ch 206. Two lectures; 3 three-hour laboratory periods.

Ch 234. **Quantitative Analysis.** 5 hours spring.

Principles of gravimetric analysis, volumetric analysis, and H-ion concentration. Designed for pharmacy and premedical students and medical technicians. Prerequisite: Ch 103. 3 lectures; 2 three-hour laboratory periods.

ECONOMICS

Ec 201, 202, 203. **Principles of Economics.** 3 hours each term.

Principles that underlie production, exchange, and distribution, etc.

EDUCATION

*Ed 111. **Methods of Study.** 2 hours any term.

No-grade course. Specific methods of study applied to various subject fields. General principles of note taking and study schedule; fixing study habits; evaluations of various broad fields of learning.

* This is a service course, not a professional course, and will not count toward fulfillment of requirements for certification or for a major in education.

ENGINEERING

(See also Industrial Arts)

GE 101, 102, 103. **Engineering Problems.** 2 hours each term.

Lectures and elementary problems dealing with the general fields of civil, electrical, industrial, and mechanical engineering; to train the students in engineering habits of work. One lecture; 2 two-hour computation periods.

GE 121, 122. **Engineering Drawing.** 3 hours each term.

Training in the use of drafting tools. Applications include geometrical constructions; lettering; orthographic projections; auxiliary planes of projection; sections and conventional violations; fasteners; intersections and developments; charts and diagrams; mechanical perspective, and free-hand technical and pictorial drawing. One lecture; 3 two-hour periods.

GE 123. **Descriptive Geometry.** 3 hours.

Theory and problems on the projection of points, lines, surfaces, and solids; applications of graphical solution of engineering problems. Prerequisite: GE 121, 122. One lecture; 3 two-hour periods.

CIVIL ENGINEERING

CE 201, 202, 203. **Introduction to Civil Engineering.** 3 hours each term.

Fundamentals of graphic analysis, structural and topographic drafting, including field curves in relation to the practice of structural, hydraulic, highway, and sanitary engineering. One recitation; 2 three-hour laboratory periods. Enrollment limited. Consent of instructor required.

CE 212. **Mechanics (Statics).** 3 hours.

Applied mechanics for engineering students. Prerequisite: differential calculus. One recitation; 2 two-hour computing periods. Enrollment limited. Consent of instructor required.

CE 213. **Mechanics (Dynamics).** 3 hours.

Continuation of CE 212. Principles and problems in kinetics; force as a factor causing motion; work, energy, friction, and impact. Prerequisite: CE 212. One recitation; 2 two-hour computing periods. Enrollment limited. Consent of instructor required.

MECHANICAL ENGINEERING

ME 212. **Mechanics (Statics).** 3 hours.

Forces and force systems with reference to the equilibrium of rigid bodies; numerous problems. Prerequisite: differential calculus. Two recitations; 1 two-hour period. Enrollment limited. Consent of instructor required.

ME 213. **Mechanics (Dynamics).** 3 hours.

Continuation of ME 212. Principles and problems in kinetics; numerous problems. Prerequisite: ME 212. Two recitations; 1 two-hour period. Enrollment limited. Consent of instructor required.

ENGLISH**Literature**

*Eng 101, 102, 103. **Survey of English Literature.** 3 hours each term.

* A student may register for only one of the two literature sequences: Eng 101, 102, 103; Eng 104, 105, 106.

From Beowulf to the present. Fall: Beowulf to Milton; Winter: Milton to Byron; Spring: Byron to the present time.

*Eng 104, 105, 106. **Appreciation of Literature.** 3 hours each term.
The aim is to stimulate enjoyment of literature by providing the student with a technique of appreciation. Readings cover whole range of English literature. Emphasis on appreciation rather than literary history.

Eng 104, 105, 106.

Eng 201, 202, 203. **Shakespeare.** 3 hours each term.

Study of the important plays, comedies, histories, and tragedies, in the light of Shakespeare's development. Required for English majors.

Eng 261, 262, 263. **Survey of American Literature.** 3 hours each term.

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

Eng 274. **The Short Story.** 3 hours.

The development of the American short story; analysis of recognized masterpieces as well as of the best present-day magazine stories, with the idea of developing critical taste in reading.

Eng 276. **The Novel.** 3 hours.

Aim is to enrich the student's background of knowledge in the field of the novel and prepare him for critical appreciation of fiction.

Rhetoric

Rht K. **Corrective English.** 1 hour.

One-term course in the mechanics of English, required of freshmen who receive low ratings in entrance placement examination. For such students Rht K is a prerequisite for any other work in written English.

Rht 111, 112, 113. **English Composition.** 3 hours each term.

The fundamentals of English composition and rhetoric; frequent written themes in the various forms of discourse. Special attention to correctness in fundamentals and to the organization of papers.

Rht 216. **Advanced Writing.** 3 hours.

Cultivation of style through practice in a variety of creative forms. Prerequisite: Rht 111, 112, 113 (with A or B grade) or equivalent, or consent of instructor.

Rht 217. **Business English.** 3 hours.

Study of modern practices in business correspondence, primarily for students of business administration. Analysis and writing of the principal types of correspondence. Prerequisite: Rht 111, 112, 113.

Library

Lib 117. **Use of the Library.** 1 hour.

Training in the use of the card catalog, periodical indexes, and reference books; experience in the preparation of bibliographies. As far as possible, problems are coordinated with the student's study program.

FOREIGN LANGUAGES

French

RL 1, 2, 3. **First-Year French.** 4 hours each term.

* A student may register for only one of the two literature sequences: Eng 101, 102, 103; Eng. 104, 105, 106.

Grammar, pronunciation, composition, conversation. Translation of easy French prose and poetry.

German

GL 1, 2, 3. **First-Year German.** 4 hours each term.

Grammar; German composition; reading and translation of easy prose and poetry.

Spanish

RL 11, 12, 13. **First-Year Spanish.** 4 hours each term.

Translation of common prose, conversation, composition, and grammar.

FORESTRY

F 111. **General Forestry.** 3 hours fall.

Preliminary survey of the entire field of forestry including the development of forestry in the United States and the origin and distribution of our public domain. May be elected by students in other schools.

HISTORY

Hst 104, 105, 106. **History of Western Europe.** 3 hours each term.

European history and the spread of European civilization. Fall: fall of Rome to 1500; winter: 1500 to 1789; spring: 1789 to the present.

Hst 201, 202, 203. **History of the United States.** 3 hours each term.

From colonial times to the present day.

Hst 207, 208, 209. **English History.** 3 hours each term.

A general survey, covering political, economic, social, intellectual, and religious developments.

HOUSEHOLD ADMINISTRATION

HAd 222. **Family Relationships.** 3 hours.

To give a better understanding of present-day family life and some of the problems existing. Open to both men and women. Prerequisite: sophomore standing. Three recitations.

HAd 225. **Child Care.** 3 hours.

Growth, development, care, and training of the young child; observations in the nursery school. For men and women students not in home economics degree curricula.

*INDUSTRIAL ARTS

IA 240. **Foundry Practices.** 2 hours any term.

Introductory course covering constitution, properties, and design limitations of castings in iron and steel; the foundry methods. One lecture; 1 four-hour laboratory period.

IA 250. **Forging and Welding.** 2 hours.

Principles and practice of forging and welding, including gas, electric, thermit, and hammer welding. One lecture; 1 four-hour laboratory period.

In these industrial arts courses the student attends three general lectures to be arranged during the term in addition to the regularly scheduled meetings.

IA 260. Machine Shop Practices. 2 hours.

Manipulation of basic machine tools, with prescribed projects; correlation of engineering, managerial, and manufacturing problems. One lecture; 1 four-hour laboratory period.

JOURNALISM**J 111, 112, 113. Elementary Journalism.** 3 hours each term.

The American newspaper; its place in the social order; its methods and techniques. Fundamentals of reporting, interviewing, news analysis, note taking, news gathering, news writing.

J 311. Backgrounds of Publishing. 3 hours.

Printing: history, traditions, techniques. Graphic-art processes: art medium, etching, halftones, lithography, offset, gravure. Laboratory.

J 312. Backgrounds of Publishing. 3 hours.

Newspaper advertising: local, general, classified, legal. Techniques of space selling. Elementary retail advertising; layout, copy, use of mat services, rates, contracts. Laboratory.

J 313. Backgrounds of Publishing. 3 hours.

Weekly newspaper management: income sources, newspaper-business law, official newspapers, postal regulations, newspaper merchandising, commercial printing, cost accounting and bookkeeping. Laboratory.

LIBRARY

(See English)

MATHEMATICS**Mth 5. Elementary Mathematics.** 2 hours winter term only.

A short course in numerical calculations, elements of algebra and trigonometry, designed to aid students in elementary science courses.

Mth 10. Elementary Algebra. 4 hours.**Mth 20. Elementary Geometry.** 4 hours.**Mth 100. Intermediate Algebra.** 4 hours.**Mth 101, 102, 103. Elementary Analysis.** 4 hours each term.

Trigonometry, graphs, algebra, elements of calculus, and analytic geometry.

Mth 105. College Algebra. 4 hours.

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

Mth 108. Mathematics of Finance. 4 hours.

Simple and compound interest and discount, annuities, periodic-payment plans, bonds, depreciation, and other topics related to business. Prerequisite: Mth 101 or Mth 105.

Mth 109. Elements of Statistics. 4 hours.**Mth 201, 202, 203. Differential and Integral Calculus.** 4 hours each term.

Prerequisite: Elementary Analysis or equivalent.

Mth 230. Spherical Trigonometry and Rudiments of Navigation. 2 hours.

Prerequisite: Mth 101.

MUSIC**Mus 127, 128, 129. Introduction to Music Literature.** 2 hours each term.

A nontechnical study of the development of music, stressing the elements of musical understanding; study of representative compositions, with emphasis on their musical and historical significance.

PHYSICAL EDUCATION**PE 127. Fundamentals of Body Movement and Conditioning. (Men).** 2 hours.

For majors. Conditioning exercises, group drills.

PE 128. Elementary Tumbling and Apparatus. (Men). 2 hours.

For majors. Principles of conditioning.

PE 129. Track and Field (Men). 2 hours.

For majors. Basic principles of conditioning and form for track and field events.

PE 180. Elementary and Advanced Physical Education. 1 hour each term.

A variety of activities taught for physiological and recreational values. Special sections for restricted and corrective work. A total of five terms required of all women during the freshman and sophomore years.

PE 190. Elementary and Advanced Physical Education. 1 hour each term.

A variety of activities taught for physiological and recreational values. Special sections for restricted and corrective work. A total of five terms required of all men during the freshman and sophomore years.

PE 250. Personal Health. 3 hours.

Exercise, nutrition, infection and resistance, special senses, mouth hygiene, sex hygiene, rest and sleep, fresh air and sunshine. Satisfies the health-education requirement.

PE 251. Community Health. 3 hours.

Water supply, food and milk sanitation, ventilation, sewage disposal, lighting, housing, health agencies, health laws, insect and rodent control.

PE 252. First Aid. 3 hours.

American Red Cross first aid; lectures, demonstrations, and practice leading to standard and advanced first-aid certificates.

PHYSICS**Ph 101, 102, 103. Engineering Physics.** 3 hours each term.

Studies in general physics adapted to students in engineering. This sequence is offered each term if demand is sufficient. One lecture; 2 recitations; 2 one-hour laboratory periods.

Ph 161. Rudiments of Photography. 2 hours.

One lecture; 1 two-hour laboratory period.

Ph 201, 202, 203. General Physics. 4 hours each term.

Mechanics, sound, heat, light, electricity and magnetism. Two lectures; 2 recitations; 1 two-hour laboratory period.

Ph 204. Astronomy. 3 hours.

Descriptive treatment with emphasis on the solar system.

Ph 206. Astronomy.

Descriptive treatment with emphasis on star types and groupings.

POLITICAL SCIENCE**PS 201, 202, 203. American Governments.** 3 hours each term.

Fall and winter: national and state governments. Spring: state and local governments.

PS 204. European Governments. 3 hours.

A survey of the constitutions and governmental operations of selected democratic and nondemocratic governments in Europe, including the governments of Britain, France, and the Soviet Union.

PS 205. International Relations. 3 hours.

The nature and history of international relations.

PSYCHOLOGY**Psy 201, 202. General Psychology.** 3 hours each term.

Introductory study of behavior and conscious processes. Survey of experimental studies with reference to motivation, learning, thinking, perceiving, and individual differences.

Psy 204. Psychology of Adjustment. 3 hours.

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

Psy 205. Applied Psychology. 3 hours.

A survey of the ways in which psychology is applied in advertising, salesmanship, market research, measurement of opinion, occupational placement, development of personal efficiency. Prerequisite: Psy 201, 202.

Psy 208, 209, 210. General Psychology Laboratory. 1 hour each term.

Introduction to experimental methods. Laboratory work coordinated with Psy 201, 202; Psy 204; Psy 205. One laboratory period each week.

PUBLIC SPEAKING

(See Speech and Drama)

SCIENCE

(See Botany, Chemistry, Physics, Zoology)

SECRETARIAL SCIENCE**SS 111, 112, 113. Stenography.** 3 hours each term.

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

SS 121, 122, 123. Typing. 2 hours each term.

Theory and practice of touch typing; rhythmical drills, dictation exercises; writing paragraphs; punctuation and mechanical arrangement of business correspondence, legal forms, tabulating, manifold, speed practice. Students with at least one year of typing are not permitted to take SS 121 for credit. Five periods laboratory work.

SOCIAL SCIENCE

(See also Anthropology, Economics, History, Political Science, Psychology, and Sociology)

SSc 101, 102, 103. Background of Social Science. 3 hours.

Orientation in each of the social sciences; study of the method of science and its application to the social studies; an attempt to create in the student the urge to independent thought through wide reading.

SOCIOLOGY**Soc 204, 205, 206. General Sociology.** 3 hours each term.

Analysis of social organization and culture; social changes and movements as affected by culture and by biological and physical environmental factors. Prerequisite to most upper-division courses in sociology.

SPEECH AND DRAMA**Sp 111, 112, 113. Extempore Speaking.** 3 hours each term.

Development and presentation of original speeches; vocabulary building; pronunciation; voice, gesture, bearing; organization; delivery.

Sp 211. Oratory Squad. 3 hours.

Original manuscript speeches; preparation for intercollegiate competition. Prerequisite: Sp 111, 121. Consent of instructor.

Sp 214. Extempore Speaking Squad. 3 hours.

Preparation for intercollegiate competition. Prerequisite: Sp 111, 112; consent of instructor.

Sp 217. Debating. 3 hours credit each term.

Argumentation principles; analysis and brief-drawing; debate participation. Prerequisite: consent of instructor.

Sp 231. Parliamentary Procedure. 3 hours.

Parliamentary usage applied in deliberative assembly, conference, symposium, and panel discussion. Students serve as chairman and secretary of meetings.

SD 211, 212. Interpretation. 2 hours.

The application of the principles of oral reading to literature.

ZOOLOGY**Z 201, 202, 203. General Zoology.** 3 hours each term.

For premedical, prenursing, pharmacy, physical education; psychology, fish and game management students, and others. Two lectures; 1 recitation; 1 two-hour laboratory period.

Z 324, 325. Comparative Vertebrate Anatomy. 4 hours each term.

Elements of comparative anatomy, gross and microscopic. Prerequisite: Z 201, 202, 203. Two lectures; 6 hours laboratory.

Z 326. Comparative Vertebrate Embryology. 4 hours.

Comparative study of the development of several representative vertebrate forms. Prerequisite: Z 324, 325 or consent of instructor.

Extension

THROUGH extension services the benefits of all the Oregon state institutions of higher education are brought to the people of the state in their own communities. All divisions of the Oregon State System of Higher Education seek through every means possible, so far as resources and facilities permit, to serve the entire state. All extension activities of the several institutions are administered through two coordinated extension services: the General Extension Division and the Federal Cooperative Extension Service.

General Extension Division

Administration

JOHN FRANCIS CRAMER, Ed.D., Dean and Director of General Extension and Summer Sessions; Professor of Education.
HENRY EUGENE STEVENS, Ed.D., Assistant Director of General Extension and Summer Sessions; Associate Professor of Education.
WILLIAM GILBERT BEATTIE, B.A., Assistant Director Emeritus of General Extension; Professor Emeritus of Education.
DOROTHY DOERING, Eugene Office Manager; Instructor in Extension Teaching.

Correspondence Study

MOZELLE HAIR, B.A., Head of Correspondence Study; Assistant Professor of Sociology.
ARLETTA PENNY, Secretary.

State-Wide Extension Classes

VIRON A. MOORE, M.A., Head of State-Wide Classes, Assistant Professor of Education.
RUTH HOPSON, Ph.D., Instructor in General Science.
JAMES CARL CAUGHLAN, Ph.D., Assistant Professor of Education.
ELSIE M. ISOTOFF, B.A., Secretary, Instructor in Extension Teaching.

Portland Extension Center

MARGARET MORRISON SHARP, Director, Assistant Professor of Extension Teaching
MAURINE W. CHURCHILL, Secretary.
ALFRED POWERS, B.A., Professor of Journalism
PERCY M. COLLIER, B.A., LL.B., Associate Professor of English.
HOYT C. FRANCHERE, M.A., Assistant Professor of English; Supervisor of English Studies.
PHILIP WOOD JANNEY, B.A., C.P.A., Associate Professor of Business Administration.
JACK R. PARSONS, M.S., Assistant Professor of Sociology and Social Work.

Radio Station KOAC

JAMES M. MORRIS, B.S., Director of News Programs; Acting Program Manager; Assistant Professor of Radio Speech.
LILLIAN SCHLOEMAN, A.B., Director of Women's Programs; Instructor in Home Economics Extension.
JAMES S. NELSON, Production Manager, Instructor in Radio Speech.
ARNOLD EBERT, B.S., Director of Agricultural Program, Assistant Professor of Agricultural Extension.
LANA LU BOUSKA, A.B., Director of KOAC School of the Air.
CLARK PAUL SPURLOCK, M.A., Veteran Counselor.
JAMES M. JACKSON, Director of Music, Instructor in Radio Speech.
DORICE WILLIAMS, Secretary.

Visual Instruction

WILLIAM CURTIS REID, Ph.D., Head of Department; Associate Professor of Visual Instruction.
EVELYN DEMPSEY, Secretary.

In-Service Extension in Elementary Education

HARVEY EDGAR INLOW, M.A., LL.B., Head of Department; Professor of Elementary Teacher In-Service Extension Education.

Summer Sessions

JOHN FRANCIS CRAMER, Ed.D., Director of Summer Sessions; Director, Portland Summer Session.
THELMA LYON, Secretary of Summer Sessions.

THE General Extension Division of the Oregon State System of Higher Education serves the people of the state through adult education by means of extension classes, correspondence study, visual instruction, and radio, and administers the summer sessions of the institutions of the State System. Its work is organized into the following departments: At Corvallis: Visual Instruction; Radio Station KOAC. At Eugene: Correspondence Study; State-Wide Extension Classes. At Portland: Portland Extension Center; Summer Sessions. At Monmouth: In-Service Extension in Elementary Education.

A State-Wide Campus. Through the General Extension Division the curricula, personnel, and facilities of all the state institutions of higher education are made available in some degree to every citizen, group, and community in Oregon. The activities of the General Extension Division are closely coordinated with those of the Federal Cooperative Extension Service and all other organized service agencies in the state.

Portland Extension Center. General extension in Portland is carried on through the Portland Extension Center. More than a hundred fifty evening, late afternoon, and Saturday morning courses in twenty-six different de-

partments and professional schools were offered during the academic year 1946-47. The work of these classes is of standard college or university grade. Resident credit at the State College, the University, or the state colleges of education may be earned through these courses. Courses may be taken at the Portland Extension Center for graduate credit toward a master's degree at the State College or the University. Detailed information is published in the Portland Extension Center Announcements.

State-Wide Extension Classes. Through its program of state-wide extension classes the General Extension Division provides the people of the state of Oregon with opportunities for college instruction and educational growth in their home communities. Courses will be organized in any community which can furnish a suitable meeting place for a class and can give assurance of an enrollment large enough to pay, through course fees, the cost of providing an instructor. The state-wide extension program includes both courses for college credit and noncredit courses.

Correspondence Study. Study at home under competent supervision is possible for any adult through carefully organized courses of instruction prepared by members of the faculties of the Oregon State System of Higher Education. These lesson outlines take the place of lectures and class exercises given to students in residence. More than two hundred courses in a wide variety of subjects are offered. Courses may be taken without credit by persons who enjoy the intellectual stimulus of organized, directed study, or they may be taken for credit toward a college degree. There are no special entrance requirements to correspondence courses; any adult who has sufficient preparation to profit from them may enroll. Complete information is published in a special Correspondence Study Catalog.

Visual Instruction. The Department of Visual Instruction of the General extension Division provides glass and film slides, microscopic slides, and motion picture films suitable for educational use by schools, community clubs and other organizations. A special catalog is published listing the material available. This department is maintained jointly by the General Extension Division and the Federal Cooperative Extension Service.

Radio Station KOAC. Radio Station KOAC is Oregon's public-owned station of which the State Board of Higher Education is the managing agency. The station is located at Corvallis, Oregon, on the campus of Oregon State College, the licensee and operator of the physical plant. The General Extension Division of the State System of Higher Education directs the program service. Program talent is drawn from Oregon State College, the University of Oregon, the Oregon colleges of education, and from various departments of the state government. In addition, many other public agencies, organizations, and individuals contribute frequently to broadcasts from the station. The station, established in 1925, is operated in the interest of the Oregon public. The programs are free from commercialism. KOAC operates with 5,000 watt power daytime, 1,000 watts power evening on a frequency of 550 kilocycles by authority of the Federal Radio Commission. Announcements of radio programs are issued periodically, and will be furnished on request.

Summer Sessions. The summer sessions of the several institutions, although a phase of resident instruction, are administered under the General

Extension Division. At the State College, the University, and the three colleges of education, the 1946 summer sessions have been organized as full summer quarters, made up of two five-and-one-half-week sessions. The summer program at the Portland Extension Center includes a full eleven-week quarter consisting of a six-week session and a five-week post session. The summer session of the Institute of Marine Biology is six weeks in length. Both undergraduate and graduate courses are offered at the University, State College, and Portland sessions. Information concerning the summer sessions is issued in separate bulletins.

Oregon State System of Higher Education

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

The institutions of the State System of Higher Education are the University of Oregon at Eugene, Oregon State College at Corvallis, the Oregon College of Education at Monmouth, the Southern Oregon College of Education at Ashland, and the Eastern Oregon College of Education at La Grande. The University of Oregon Medical School and the University of Oregon Dental School are located in Portland.

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

At the University and the State College two years of unspecialized work in liberal arts and sciences are provided on a parallel basis in the lower division. Major curricula, both liberal and professional, are grouped on either campus in accordance with the distinctive functions of the respective institutions in the unified State System of Higher Education.