



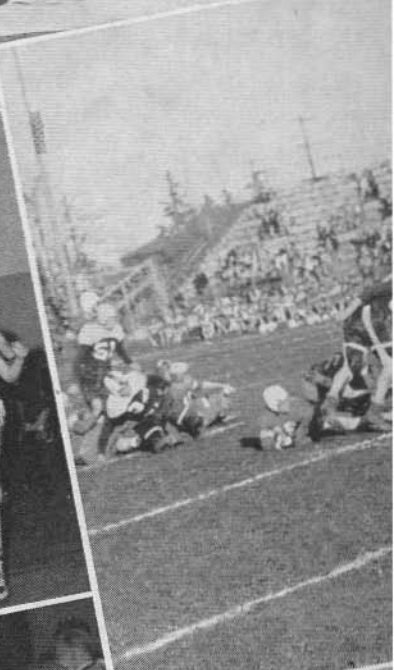
VANPORT EXTENSION CENTER

Portland, Vanport City, Oregon

SUMMER SESSIONS
1948



JUNE 14 AND JULY 26



Vanport Extension Center

Representing the

UNIVERSITY OF OREGON
OREGON STATE COLLEGE
OREGON COLLEGE OF EDUCATION
SOUTHERN OREGON COLLEGE OF EDUCATION
EASTERN OREGON COLLEGE OF EDUCATION

Six-Week Session

June 14-July 23

Five-Week Session

July 26-August 27

OREGON STATE SYSTEM OF
HIGHER EDUCATION

Telephone: TYler 0655

State Board of Higher Education

	Term Expires
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
A. S. GRANT, Baker.....	1956
CHERYL S. MACNAUGHTON, Portland.....	1957

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EDGAR W. SMITH.....	President
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Office of the State Board of Higher Education
Eugene, Oregon

Vanport Extension Center

OREGON STATE SYSTEM OF HIGHER EDUCATION

Faculty*

PAUL C. PACKER, Ph.D., Chancellor, Oregon State System of Higher Education.
JOHN FRANCIS CRAMER, Ed.D., Dean and Director of General Extension; Director of Summer Sessions, Oregon State System of Higher Education.
HENRY EUGENE STEVENS, Ed.D., Assistant Director of General Extension; Graduate Advisor, Portland Extension Center.
STEPHEN E. EPLER, Ph.D., Director, Vanport Extension Center.
PHIL H. PUTNAM, M.A., Assistant Director, Vanport Extension Center.
CURTIS EDMUND AVERY, M.A., Registrar, University of Oregon and Vanport Extension Center.
JEAN P. BLACK, Ph.D., Librarian; Assistant Professor.
JOSEPH V. HOLLAND, M.Ed., Athletic Director; Instructor in Physical Education.
RICHARD B. HALLEY, M.S., Men's Adviser and Assistant Professor of Economics.
KATHERINE M. RAHL, M.A., Social Director and Women's Adviser; Instructor in Physical Education.
CARL H. BRYAN, C.P.A., Business Manager, Instructor in Business Administration.
MARGARET C. HOLLAND, B.A., Office Manager.
LESTER EGGLESTON, Superintendent of Buildings and Maintenance.

VAUGHN ALBERTSON, M.A., Assistant Professor of English.
MARION ARNETT, B.A., Instructor in Secretarial Science.
HOWARD BACKLUND, B.A., Instructor in English.
ROGER BAILEY, Instructor in Journalism.
EDWIN O. BEERY, A.B., Instructor in Sociology.
WILLIAM O. BUSCHMAN, M.Ed., Instructor in Mathematics.
DOROTHY CLIFFORD, M.A., Instructor in English, Drama, and Speech.
JAMES W. COOMBS, B.S., Instructor in Engineering.
ARTHUR L. CROOKHAM, M.A., Instructor in Journalism.
PAUL M. DUNN, M.S.F., Professor of Forestry; Dean, School of Forestry, Oregon State College.
SOTERA T. DE LA VEGA, B.S., Instructor in Physical Education.
FRANK F. EATON, J.U.D., Assistant Professor of Mathematics and German.
HAROLD ELKINTON, M.B.A., Instructor in Accounting.
MILDRED FLANAGAN, M.A., Assistant Professor of Mathematics.
RUTH FRANCHERE, B.A., Instructor in English.
ALLAN A. GIBB, M.A., Assistant Professor of Mathematics; Head of Department.
ALBERT GIBSON, B.S., Instructor in Engineering.
ALVA W. GRAHAM, Ed.D., Instructor in Psychology.
RALPH GREILING, B.S., Instructor in Engineering.
GEORGE C. HOFFMAN, M.A., Assistant Professor of Political Science.
EMERSON E. HOOGSTRAAT, B.S., Instructor in Economics and Accounting.
C. A. HUBBARD, D.Sc., Instructor in Zoology.
MORRIS S. ISSEKS, M.A., Instructor in Political Science.
JOHN F. JENKINS, B.S., Instructor in Mathematics.

* Includes winter term faculty.

FRANCES W. JONASSON, B.S., Instructor in Household Administration.
 RAYMOND D. JONES, Instructor in Forging and Welding.
 NORMAN W. KARR, Ph.D., Instructor in Chemistry.
 ERWIN F. LANGE, M.S., Assistant Professor of Chemistry.
 RAY L. LAPHAM, M.A., Instructor in English.
 GENE E. LEO, B.B.A., Instructor in Business Administration.
 ELLA G. LITCHFIELD, M.A., Assistant Professor of English.
 RAYMOND LOCKWOOD, B.S., Assistant Professor of Engineering; Head of Department.
 ROBERT N. MERZ, M.A., Assistant Professor of Sociology.
 MICHAEL NIELSEN, Instructor in Forging and Welding.
 PHILIP H. OVERMEYER, Ph.D., Instructor in Economics.
 DONALD D. PARKER, M.B.A., Assistant Professor of Accounting.
 K. ELLSWORTH PAYNE, B.A., Instructor in Chemistry.
 CORINNE POUTEAU, Bachelière-es-Lettres, Instructor in French.
 FRANK L. ROBERTS, Ph.M., Assistant Professor of English; Head of Department.
 RUTH S. SEVERSON, B.S., Instructor in Secretarial Science.
 THOMAS A. SHOTWELL, M.S., Instructor in Physics.
 RICHARD E. SMITH, B.S., Instructor in Engineering.
 EMMA STANTON, M.S., Instructor in Mathematics.
 CARL VREELAND, B.S., Instructor in Business Administration.
 RICHARD B. WALTON, B.A., Assistant Professor of Physics.
 CATHERINE W. WEAVER, M.A., Instructor in English.
 DONALD V. WEAVER, A.B., Instructor in Mathematics.
 HILDEGARD WEISS, M.A., Instructor in English.
 CLARENCE WICK, B.S., Instructor in Architecture.
 WARREN W. WILCOX, Ph.D., Assistant Professor of Psychology.
 VERNE WILSON, B.M., Instructor in Music.

Facilities and Special Opportunities

THE Vanport Extension Center of the Oregon State System of Higher Education offers a wide variety of lower-division college classes for the 1948 summer term. The classes are held in the buildings of the Vanport Extension Center in Vanport City. Part of the laboratory work is offered at Lincoln High School and the University of Oregon Dental School.

The six-week session begins June 14 and ends July 23. Students entering college for the first time should take placement examinations in Columbia Hall Saturday, June 12, at 8:00 a.m. The five-week session begins July 26 and ends August 27. Students may enroll for either session separately or for the full quarter. Year-sequence courses in which the work usually given in three quarters is offered in one quarter will run continuously through the full quarter. Students should register on the first day of the session or as soon thereafter as possible in order not to miss class lectures. A late-registration fee is charged for those entering after the registration day.

Courses. Beginning courses and year sequences are offered for new students. The summer-term courses are also planned to help students who need to complete year-sequence courses by providing the second and third quarters' work in many subjects. Year sequences are offered in a number of courses to enable students to complete a full year's work in a subject in the summer quarter. This assists irregular students in making up deficiencies.

Engineering Courses. Freshman engineering students who have been unable to complete the freshman engineering program will find courses to complete the year's work. The following typical programs are suggested: (a) For those engineering students who have completed two regular quarters of general engineering, it is suggested that the third quarter be completed in Math 103, Physics 103, and General Engineering 103. (b) For engineering students who have completed only one regular quarter of engineering, it is suggested that Math 102, 103, Physics 102, 103, and General Engineering 102, 103 be taken. These programs will complete the freshman requirement and permit sophomore status in the fall. (c) Engineering students are also urged to take general chemistry (Chem 204, 205, 206).

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:

	Six-week Session	Five-week Session	Full Quarter
Registration and lab. fee (including fee for educ. and athl. activities)	\$16	\$16	\$32
Nonresident fee (in addition to above fees)	35	35	70

VANPORT SUMMER SESSIONS CALENDAR 1948

SIX-WEEK SESSION

June 12, Saturday, 8:00 a.m. to 3:00 p.m. Placement examinations for new students.
 June 14, Monday, 9:00 a.m. to 4:00 p.m. Registration in Columbia Hall. Late-registration fee effective June 15. Classes begin.
 June 15, Tuesday. Classes begin.
 June 21, Monday. Last day for new registration, change of courses, addition of new courses, or dropping a course without "F".
 July 5, Monday. Holiday.
 July 9, Friday. Last day for withdrawal from school without being held for "F"s.
 July 23, Friday. End of six-week session.

FIVE-WEEK SESSION

July 26, Monday. Registration. Late-registration fee effective July 27. Classes begin.
 July 27, Tuesday. Classes begin.
 August 2, Monday. Last day for new registration, change of courses, addition of new courses or dropping a course without "F".
 August 13, Friday. Last day for withdrawal from school without being held for "F"s.
 August 27, Friday. End of session.

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

Number Credits Hours	
1.....	\$ 6.00
2.....	9.50
3.....	13.00

SPECIAL FEES

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 his initial registration.

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 issued free of charge.

FEE REFUNDS

Total term fees	\$16.00
Up to and including Friday of 1st week	15.00
Up to and including Friday of 2nd week	12.00
Up to and including Friday of 3rd week	8.00
After Friday of 3rd week	No Refund

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. Nonresident students, however, must meet admission requirements of the institution to which they transfer. Nonveterans 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. Multnomah Hall has four classrooms, a photography laboratory, and a physics 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 one day a week to advise and assist veterans with their problems.

Athletic Program. The athletic and recreational program for the summer will include golf, softball, tennis, and other activities. An intramural program will be organized 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. The Interim Student Council and some of the student clubs are active during the summer session. These include the Associated Women Students, Bachelor's Club, Barristers Club, Bridge Club, Lettermen's Club, and Press Club.

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. To receive government educational benefits, veterans should apply in person or by mail to the Veterans' Administration, 614 SW 11th Avenue, Portland, Oregon (Telephone ATwater 5225) for a "Certificate of Eligibility and Entitlement." Since considerable time is required to process applications, they should be made well in advance of the term's opening date.

4. Prospective students should have the records of their high-school work (and any college work) 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.

NONVETERANS ARE ADMITTED

The Vanport Extension Center is not exclusively for veterans. The percentage of nonveterans has increased fourfold since the opening of the Center. Over five-hundred nonveterans have registered as students during the past two academic years.

Description of Courses

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.

Six-Week Session

June 14 to July 23

BUSINESS ADMINISTRATION

BA 111, 112. **Constructive Accounting.** 6 hours.

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

BA 113. **Constructive Accounting.** 3 hours.

Prerequisite BA 112.

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 113.

CHEMISTRY

Ch 204, 205, 206. **General Chemistry.** 12 hours (11 weeks).

A year sequence. Ch 204 and 205 are devoted primarily to the basic principles of general chemistry. Ch 206 includes a study of semi-micro qualitative analysis, chemistry of selected metallic elements, and other subjects not covered in the more elementary courses. The course constitutes beginning chemistry

for students majoring in chemistry, chemical engineering, premedics, and others requiring extensive knowledge of the subject.

Ch 205. **General Chemistry.** 5 hours.

Prerequisite Ch 204.

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

Carbon compounds of the aliphatic series. Prerequisite: Ch 206.

ECONOMICS

Ec 201. **Principles of Economics.** 3 hours.

A study of the institutions, underlying assumptions, and basic concepts of capitalistic economics; a survey of the economics of production and of price determination; attention to distribution of income.

Ec 203. **Principles of Economics.** 3 hours.

Third term of a year's sequence.

EDUCATION

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

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.

GENERAL ENGINEERING

GE 101. **Engineering Problems.** 2 hours.

Lectures and elementary problems dealing with the general fields of civil, electrical, industrial, and mechanical engineering; training in engineering habits of work.

GE 102. **Engineering Problems.** 2 hours.

Prerequisite: GE 101.

GE 103. **Engineering Problems.** 2 hours.

Prerequisite: GE 102.

GE 121. **Engineering Drawing.** 3 hours.

Training in the use of drafting tools. Applications include geometrical construction; lettering; orthographic projection; auxiliary planes of projection; sections and conventional violations; fasteners; intersections and developments, and pictorial drawing.

GE 122. **Engineering Drawing.** 3 hours.

Prerequisite: GE 121.

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

Forces and force systems with reference to the equilibrium of rigid bodies; numerous problems. Prerequisite: differential calculus.

ENGLISH

Literature

Eng 102. **Survey of English Literature.** 3 hours.

From *Beowulf* to Milton.

Eng 102. **Survey of English Literature.** 3 hours.

From Milton to Byron.

* 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.

Eng 103. Survey of English Literature. 3 hours.

From Byron to the end of the nineteenth century.

Eng 271. Contemporary Literature. 3 hours.

Postwar poetry, prose, and drama, with emphasis on the development of new literary forms, new concepts, attitudes, and movements. Recent European influences. Lectures, with reading assignments illustrating the points of emphasis in class discussion.

Rhetoric

Rht K. Corrective English. 1 hour.

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

Rht 111. English Composition. 3 hours.

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 112. English Composition. 3 hours.

Prerequisite: Rht 111.

kht 113. English Composition. 3 hours.

Prerequisite: Rht 112.

Rht 217. Business English. 3 hours.

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

Speech

Sp 111. Extempore Speaking. 3 hours.

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

Sp 251. Workshop Theater. 1 to 3 hours.

For participation in campus plays, credit totaling not more than 6 hours is given on recommendation of the instructor.

GERMAN

GL 1. First-Year German. 4 hours.

Designed to provide a thorough grammatical foundation and an elementary reading knowledge of idiomatic German.

HISTORY

Hst 201. History of the United States. 3 hours.

The colonial period, the American Revolution, the adoption of the Constitution, and American development down to 1845.

Hst 202. History of the United States. 3 hours.

Political, economic, and social history from 1845-1896.

MATHEMATICS

Mth 10. Elementary Algebra. 4 hours.

Mth 100. Intermediate Algebra. 4 hours.

Mth 101. Elementary Analysis. 4 hours.

Trigonometry and graphs.

Mth 102. Elementary Analysis. 4 hours.

Algebra and elements of calculus. Prerequisite: Mth 101.

Mth 103. Elementary Analysis. 4 hours.

Analytic geometry. Prerequisite: Mth 102.

Mth 105. College Algebra. 4 hours.

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

Mth 201. Differential and Integral Calculus. 4 hours.

Prerequisite: Elementary Analysis or equivalent.

Mth 203. Differential and Integral Calculus. 4 hours.

Prerequisite: Mth 202.

MUSIC

Mus 127. Introduction to Music Literature. 2 hours.

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. Instruction in basic fundamental body movements and conditioning.

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

For majors. Basic principles of conditioning; skills of track and field events.

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

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

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

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. May not be taken by women who have had PE 114, 115, 116; men who have had PE 150 may take PE 250 for 2 hours credit only.

PE 251. Community Health. 3 hours.

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

PHYSICS

Ph 102. Engineering Physics. 3 hours.

Studies in general physics adapted to students in engineering.

Ph 201, 202, 203. **General Physics.** 12 hours (11 weeks).

Mechanics, sound, heat, light, electricity and magnetism.

Ph 361. **Photography.** 3 hours.

The hand camera, developing, printing, toning, enlarging, slides. Prerequisite: college chemistry or physics or previous photographic experience, with consent of instructor.

POLITICAL SCIENCE

PS 201. **American Governments.** 3 hours.

National government.

PS 203. **American Governments.** 3 hours.

State and local governments.

PSYCHOLOGY

Psy 201. **General Psychology.** 3 hours.

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 202.

Psy 208. **General Psychology Laboratory.** 1 hour.

Introduction to experimental methods. Laboratory work coordinated with Psy 201.

RHETORIC

(see English)

SCIENCE

(See also Chemistry, Physics, Zoology)

Sc 201. **Foundations of Physical Science.** 3 hours.

A general introductory course in the field of the physical sciences embracing cosmic relations, principles of physics and chemistry, geologic processes, and application of the scientific method.

Sc 202. **Foundations of Physical Science.** 3 hours.

SECRETARIAL SCIENCE

SS 121. **Typing.** 2 hours.

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

SS 122. **Typing.** 2 hours.

Prerequisite: SS 121.

SS 123. **Typing.** 2 hours.

Prerequisite: SS 122.

SOCIOLOGY

Soc 204. **General Sociology.** 3 hours.

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

Soc 205. **General Sociology.** 3 hours.

The second term of a year's sequence.

SPEECH

(See English)

ZOOLOGY

Z 201, 202, 203. **General Zoology.** 9 hours (11 weeks).

For premedical, prenursing, pharmacy, physical education, psychology, fish and game management students, and others.

Z 324. **Comparative Vertebrate Anatomy.** 4 hours.

Gross dissection and comparison of organ systems in representative vertebrates. Prerequisite: Z 203.

Five-Week Session

July 26 to August 27

BUSINESS ADMINISTRATION

BA 113. **Constructive Accounting.** 3 hours.

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 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.

CHEMISTRY

Ch 204, 205, 206. **General Chemistry.** 12 hours (11 weeks).

A year sequence. Ch 204 and 205 are devoted primarily to the basic principles of general chemistry. Ch 206 includes a study of semi-micro qualitative analysis, chemistry of selected metallic elements, and other subjects not covered in the more elementary courses. The course constitutes beginning chemistry for students majoring in chemistry, chemical engineering, premedics, and others requiring extensive knowledge of the subject.

Ch 206. **General Chemistry.** 5 hours.

Prerequisite: Ch 205.

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

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

ECONOMICS

Ec 202. **Principles of Economics.** 3 hours.

A study of the institutions, underlying assumptions, and basic concepts of capitalistic economics; a survey of the economics of production and of price determination; attention to distribution of income.

Ec 203. **Principles of Economics.** 3 hours.

Third term of a year sequence.

GENERAL ENGINEERING**GE 103. Engineering Problems.** 2 hours.

Lectures and elementary problems dealing with the general fields of civil, electrical, industrial, and mechanical engineering; training in engineering habits of work.

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 122.

**ENGLISH
Literature****Eng 103. Survey of English Literature.** 3 hours.

Byron to the present time.

Rhetoric**Rht 111. English Composition.** 3 hours.

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 112. English Composition. 3 hours.

Prerequisite: Rht 111.

Rht 113. English Composition. 3 hours.

Prerequisite: Rht 112.

Speech**Sp 111. Extempore Speaking.** 3 hours.

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

HISTORY**Hst 203. History of the United States.** 3 hours.

Political, economic, and social history since 1896; the United States as a world power. Third term of year sequence.

MATHEMATICS**Mth 100. Intermediate Algebra.** 4 hours.**Mth 101. Elementary Analysis.** 4 hours.

Trigonometry and graphs.

Mth 102. Elementary Analysis. 4 hours.

Algebra and elements of calculus. Prerequisite: Mth 101.

Mth 103. Elementary Analysis. 4 hours.

Analytic geometry. Prerequisite: Mth 102.

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 202. Differential and Integral Calculus. 4 hours.

Standard course in integral calculus. Prerequisite: Mth 201.

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

For majors.

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

A variety of activities taught for physiological and recreational values. Special section 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, six terms.

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.

PHYSICS**Ph 103. Engineering Physics.** 3 hours.

Studies in general physics adapted to students in engineering. This sequence is offered each term if demand is sufficient.

Ph 201, 202, 203. General Physics. 12 hours (11 weeks).

Mechanics, sound, heat, light, electricity and magnetism.

POLITICAL SCIENCE**Ps 202. American Government.** 3 hours.

National government.

PSYCHOLOGY**Psy 202. General Psychology.** 3 hours.

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

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 202.

Psy 209, 210. General Psychology Laboratory. 2 hours.

Introduction to experimental methods. Laboratory work coordinated with Psy 202; Psy 205.

RHETORIC

(See English)

SCIENCE

(See also Chemistry, Physics, and Zoology)

Sc 203. Foundations of Physical Science. 3 hours.

A general introductory course in the field of the physical sciences embracing cosmic relations, principles of physics and chemistry, geologic processes, and man's reaction to them. Special attention is given to the development and application of the scientific method.

SOCIOLOGY

Soc 206. **General Sociology.** 3 hours.

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
(See English)**ZOOLOGY**

Z 201, 202, 203. **General Zoology.** 9 hours (11 weeks).

For premedical, prenursing, pharmacy, physical education, psychology, fish and game management students, and others.

Z 325. **Comparative Vertebrate Anatomy.** 4 hours.

Gross dissection and comparison of organ systems in representative vertebrates. Prerequisite: Z 324.

Oregon State System of Higher Education

BULLETIN

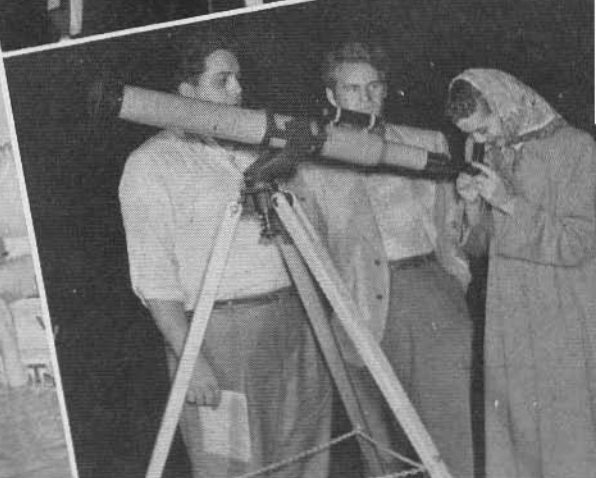
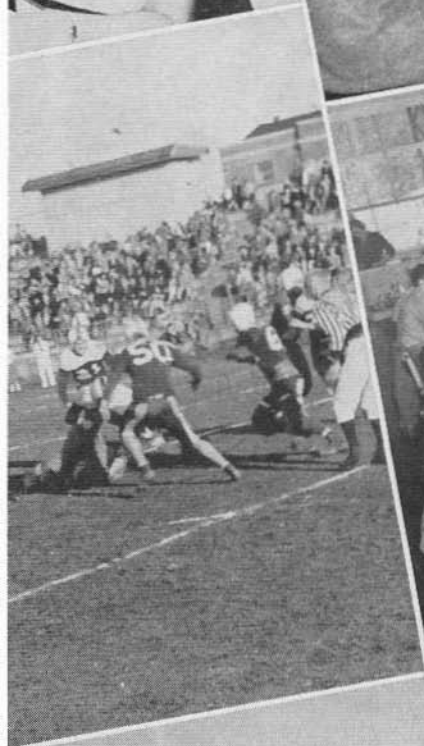
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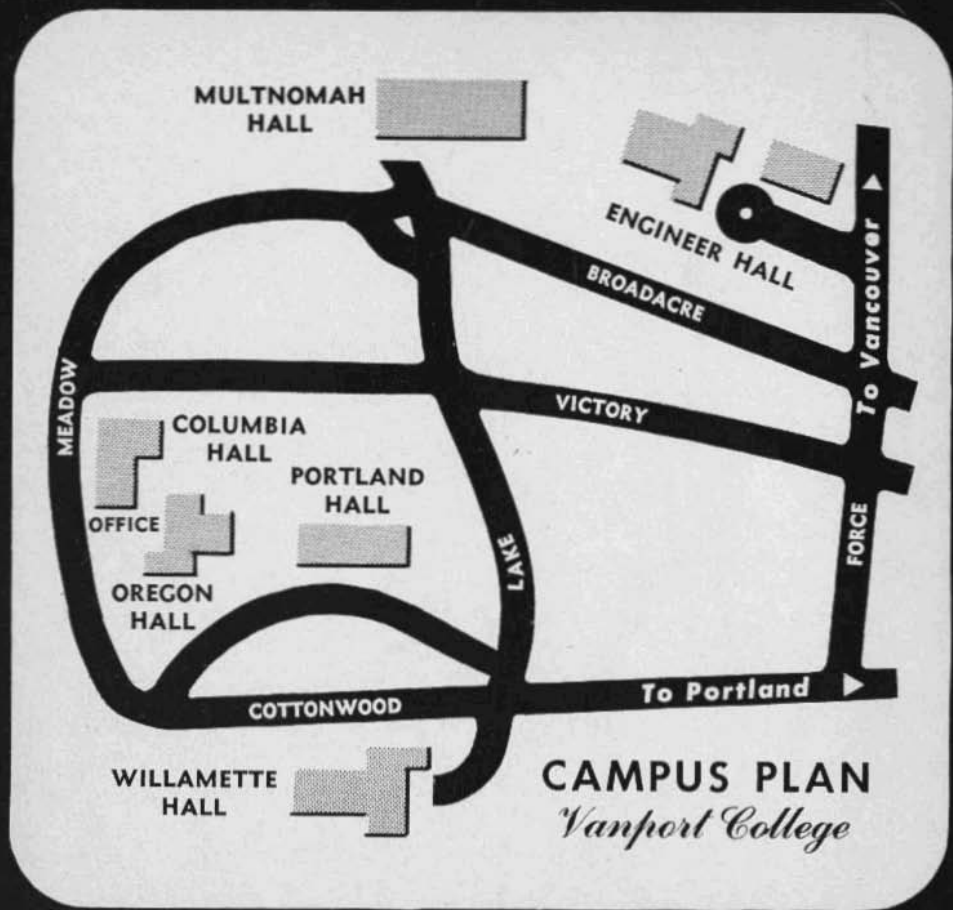
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