

O R E G O N

State System of
Higher Education

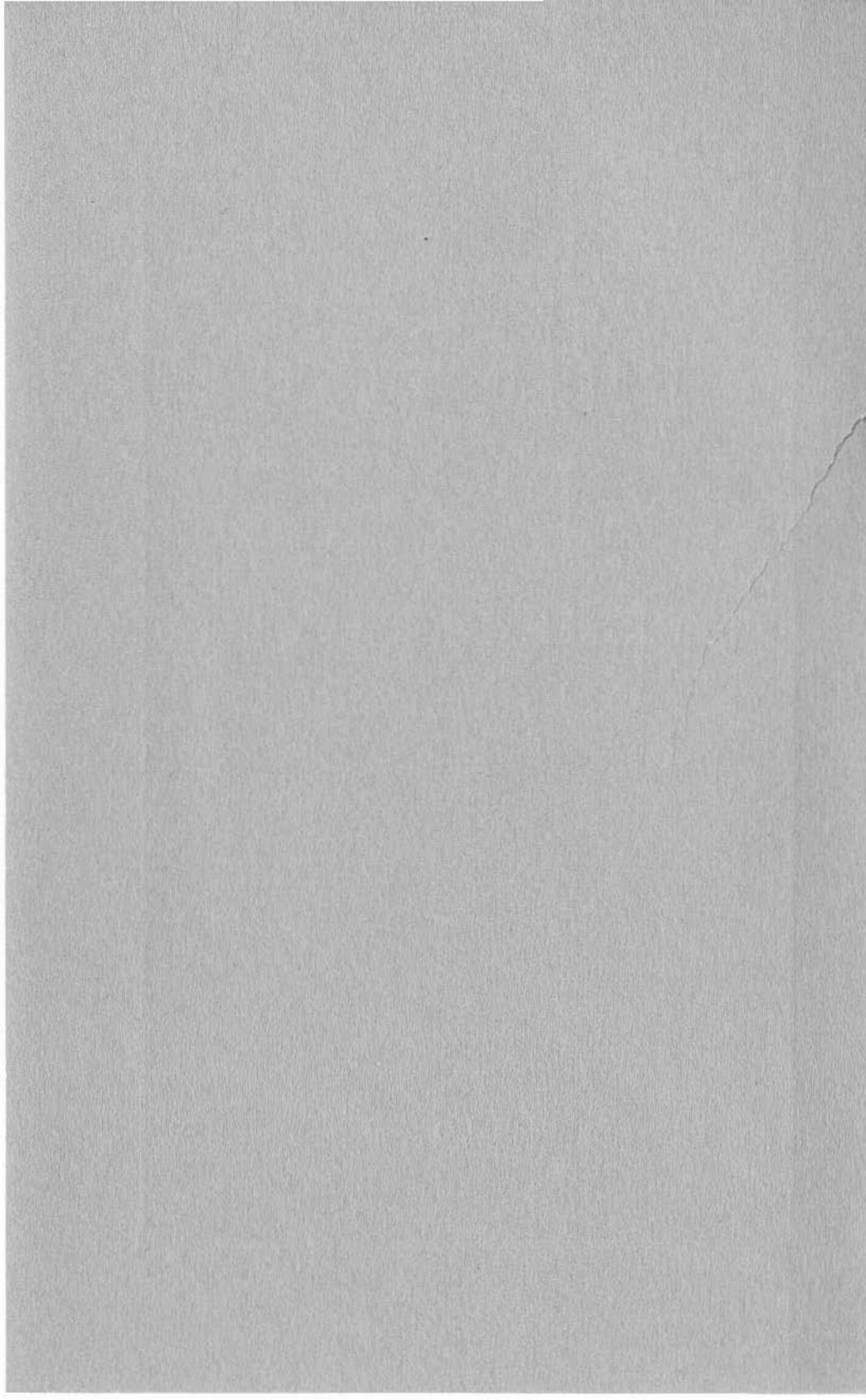
B U L L E T I N



Portland Extension Center

Catalog Issue, 1945-46

Portland, Oregon



PORTLAND EXTENSION
CENTER

UNIVERSITY OF OREGON
OREGON STATE COLLEGE
OREGON COLLEGES OF EDUCATION

ANNOUNCEMENTS
1945-46

814 OREGON BUILDING
PORTLAND, OREGON

Oregon State System of Higher Education

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

The institutions of the State System of Higher Education are the University of Oregon at Eugene, Oregon State College at Corvallis, the Oregon College of Education at Monmouth, the Southern Oregon College of Education at Ashland, and the Eastern Oregon College of Education at La Grande. The University of Oregon Medical School 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. At the Southern Oregon College of Education and the Eastern Oregon College of Education students who do not plan to become elementary-school teachers may devote their time exclusively to lower-division studies in the liberal arts and sciences, or in secretarial science.

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.

State Board of Higher Education

	Term Expires
EDGAR W. SMITH, Portland.....	1946
WILLARD L. MARKS, Albany.....	1947
R. C. GROESBECK, Klamath Falls.....	1948
HERMAN OLIVER, John Day.....	1949
R. E. KLEINSORGE, Silverton.....	1950
BEATRICE WALTON SACKETT, Coos Bay.....	1951
LEIF S. FINSETH, Dallas.....	1952
PHIL METSCHAN, Portland.....	1953
A. R. WATZEK, Portland.....	1954

OFFICERS

WILLARD L. MARKS.....	President
BEATRICE WALTON SACKETT.....	Vice-President

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WILLARD L. MARKS

BEATRICE WALTON SACKETT

EDGAR W. SMITH

—

FREDERICK M. HUNTER, Chancellor

CHARLES D. BYRNE, Secretary

—

Office of the State Board of Higher Education
Eugene, Oregon

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Oregon State System of Higher Education

Executive Officers

FREDERICK MAURICE HUNTER, Ed.D., LL.D., Chancellor	
WILLIAM JASPER KERR, D.Sc., LL.D., Chancellor Emeritus	
HARRY K. NEWBURN, Ph.D. President, University of Oregon	AUGUST LEROY STRAND, Ph.D. President, Oregon State College
DAVID W. E. BAIRD, M.D. Dean, University of Oregon Medical School	CHARLES ABNER HOWARD, M.A., LL.D. President, Oregon College of Educa- tion
WALTER REDFORD, Ph.D. President, Southern Oregon College of Education	ROBEN JOHN MAASKE, Ph.D. President, Eastern Oregon College of Education

Deans and Directors*

DAVID W. E. BAIRD, M.D.....	Dean and Director of Medicine; Director of Health Services
HERBERT ARNOLD BORK, M.S., C.P.A.....	Acting Budget Officer and Comptroller
CHARLES DAVID BYRNE, Ed.D.....	Director of Information
WILLIAM HUGH CARLSON, M.S.....	Director of Libraries
JOHN FRANCIS CRAMER, Ed.D.....	Dean and Director of General Extension
GEORGE EDWARD CROSSEN, Ph.D.....	Dean and Director of Pharmacy
PAUL MILLARD DUNN, M.S.F.....	Dean and Director of Forestry
JAMES HENRY GILBERT, Ph.D.....	Dean of the College of Liberal Arts; Director of Arts and Letters and Social Science
FRANCOIS ARCHIBALD GILFILLAN, Ph.D.....	Dean of the School of Science; Director of Science
GEORGE WALTER GLEESON, Ch.E.....	Acting Dean and Director of Engineering and Industrial Arts
ORLANDO JOHN HOLLIS, B.S., J.D.....	Dean and Director of Law
CHARLES ABNER HOWARD, M.A., LL.D.....	Director of Elementary Teacher Training
JAMES RALPH JEWELL, Ph.D., LL.D.....	Dean of Education; Director of High School Teacher Training
THEODORE KRATT, Mus.M., Mus.D.....	Dean and Director of Music
OLOF LARSELL, Ph.D., Sc.D.....	Dean and Director of Graduate Division
ELLIS FULLER LAWRENCE, M.S., F.A.I.A.....	Dean and Director of Architecture and Allied Arts
RALPH WALDO LEIGHTON, Ph.D.....	Dean and Director of Physical Education
AVA BERTHA MILAM, M.A.....	Dean and Director of Home Economics
VICTOR PIERPONT MORRIS, Ph.D.....	Dean and Director of Business Administration
EARL LEROY PACKARD, Ph.D.....	Dean and Director of General Research
ALFRED POWERS, A.B.....	Dean and Director of Creative Writing and Publishing
WILLIAM ALFRED SCHOENFELD, M.B.A.....	Dean and Director of Agriculture
MAHLON ELLWOOD SMITH, Ph.D.....	Dean and Director of Lower Division
ERNEST E. STARR, D.M.D., F.A.C.S.....	Acting Dean and Director of Dentistry
GEORGE STANLEY TURNBULL, M.A.....	Acting Dean and Director of Journalism
GENEVIEVE GRIFFITH TURNIPSEED, M.A.....	Director of Dormitories

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

PORTLAND EXTENSION CENTER

CALENDAR, 1945-46

Fall Term

September 24-29, Monday to Saturday.....Classes begin as scheduled
October 6, Saturday (before noon).....Last day for payment of fees
without penalty
October 13, Saturday.....Last day to add a course or to change
from audit to credit
November 17, Saturday.....Last day to withdraw from a course or to
change from credit to audit
November 22, Thursday.....Thanksgiving Day, holiday
December 10-15, Monday to Saturday.....Final examinations

Winter Term

January 2-8, Wednesday to Tuesday.....Classes begin as scheduled
January 15, Tuesday.....Last day for payment of fees without penalty
January 22, Tuesday.....Last day to add a course or to change
from audit to credit
February 26, Tuesday.....Last day to withdraw from a course or to
change from credit to audit
March 18-23, Monday to Saturday.....Final examinations

Spring Term

March 25-30, Monday to Saturday.....Classes begin as scheduled
April 6, Saturday (before noon).....Last day for payment of fees
without penalty
April 13, Saturday.....Last day to add a course or to change
from audit to credit
May 18, Saturday.....Last day to withdraw from a course or to change
from credit to audit
May 30, Thursday.....Memorial Day, holiday
June 3-8, Monday to Saturday.....Final examinations

Portland Extension Center

OREGON STATE SYSTEM OF HIGHER EDUCATION

Faculty

FREDERIC MAURICE HUNTER, Ed.D., LL.D., Chancellor, Oregon State System of
Higher Education.

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

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

CHARLES ABNER HOWARD, M.A., LL.D., President, Oregon College of Education;
Director of Elementary Teacher Training.

JOHN FRANCIS CRAMER, Ed.D., Dean and Director of General Extension; Director
of Summer Sessions.

OLOF LARSELL, Ph.D., Sc.D., Dean and Director of Graduate Division.

HENRY EUGENE STEVENS, Ed.D., Assistant Director of General Extension; Grad-
uate Adviser, Portland Extension Center.

EARL MANLEY PALLETT, Ph.D., Registrar, University of Oregon and Portland
Extension Center.

MARGARET MORRISON SHARP, Administrative Assistant, Portland Extension
Center.

MAURINE W. CHURCHILL, Secretary, Portland Extension Center.

PERCY M. COLLIER, B.A., LL.B., Associate Professor of English.
B.A. (1911), Oregon; LL.B. (1914), Michigan. Lecturer (1929-30), Assistant Professor
(1930-42), Associate Professor (1942—).

JOHN FRANCIS CRAMER, Ed.D., Professor of Education; Dean and Director of
General Extension; Director of Summer Sessions.
A.B. (1920), A.M. (1921), Willamette; M.Ed. (1932), Ed.D. (1937), Oregon Professor,
Dean and Director (1944—).

PHILIP WOOD JANNEY, B.A., C.P.A., Associate Professor of Business Adminis-
tration.
B.A. (1920), Oregon; C.P.A. (1922), State of Oregon. Faculty, Oregon (1921-23);
Assistant Professor (1923-41), Associate Professor (1941—).

MABLE HOLMES PARSONS, M.A., Professor of English.
B.A. (1904), M.A. (1905), Michigan. Faculty, Oregon (1912-19); Professor (1919—).

WALLACE SPENCER BALDINGER, Ph.D., Associate Professor of Art, University of
Oregon.

ARTHUR GEORGE BRISTOW BOUQUET, M.S., Professor of Vegetable Crops; Horti-
culturist (Vegetable Crops), Agricultural Experiment Station, Oregon State
College.

OTHNIEL ROBERT CHAMBERS, Ph.D., Professor of Psychology and Head of De-
partment, Oregon State College.

- NEWEL HOWLAND COMISH, Ph.D., Professor of Business Administration, University of Oregon.
- GLENN WILLIS HOLCOMB, M.S., Professor of Civil Engineering, Oregon State College.
- CARL LEO HUFFAKER, Ph.D., Professor of Education, University of Oregon.
- JAMES RALPH JEWELL, Ph.D., LL.D., Professor of Education, Dean of the School of Education, Director of High School Teacher Training, Oregon State System of Higher Education.
- CATHERINE MURRISON JONES, M.S., Instructor in Physical Education, University of Oregon.
- CLAUDE E. KANTNER, Ph.D., Speech Correctionist, Crippled Children's Division, University of Oregon Medical School.
- PAT A. KILLGALLON, D.Ed., Professor of Education, University of Oregon
- RALPH WALDO LEIGHTON, Ph.D., D.Sc., Professor of Education, Dean of the School of Physical Education, University of Oregon.
- IVAN MILHOUS, Ph.D., Associate Professor and Head of Departments of Education and Psychology; Director of Training Schools, Oregon College of Education.
- LANCASTER POLLARD, B.A., Research Associate in History, University of Oregon; Superintendent, Oregon Historical Society.
- ALFRED POWERS, A.B., Professor of Journalism, Dean and Director of Creative Writing and Publishing, State System of Higher Education.
- ROBERT RAY REICHAERT, Ed.D., Associate Professor of English and Educational Psychology, Oregon State College.
- CARL WALTER SALSER, Ed.M., Professor of Education and Head of Department; Assistant Dean, School of Education, Oregon State College.
- HARRY JOHNSON SEARS, Ph.D., Professor of Bacteriology and Head of Department, University of Oregon Medical School.
- HENRY EUGENE STEVENS, Ed.D., Associate Professor of Education, University of Oregon.
- FRANK K. THOMPSON, Ph.D., Instructor in Biochemistry, University of Oregon Medical School.
- WILBERT R. TODD, Ph.D., Associate Professor of Biochemistry, University of Oregon Medical School.
- LYLE VEAZIE, M.A., Instructor in Bacteriology, University of Oregon Medical School.
- ADOLPH WEINZIRL, M.D., Professor of Public Health and Preventive Medicine, Director of Division of Social Hygiene Education, University of Oregon Medical School.
- LOIS ROSAMOND WENTWORTH, M.S., Assistant Professor of Physical Education, University of Oregon.
- WILLIAM L. ALDERSON, M.A., Instructor in Literature, Reed College.
- VERNON E. ANDERSON, Ph.D., Director of Curriculum, Portland Public Schools.
- ALFRED APSLER, Ph.D., Instructor in German, Portland Center.
- FREDERICK ARPKE, A.B., Principal Economist, Bonneville Power Administration.
- ALICE M. BAHRS, Ph.D., Instructor in Nutrition, Portland Center.

- LAWRENCE STEPHEN BEE, Ph.D., Assistant Professor of Sociology, Reed College.
- JEAN C. BLOOM, M.S., Acting Supervisor, Adult Family Life Education, Portland Public Schools.
- MARIE CHURCHILL, B.A., Instructor in Speech and Dramatic Arts, Portland Center.
- NORMAN R. CORY, B.S., B.M., M.F.A., Instructor in Music, Portland Center.
- GLADYS DOBSON, M.S., Supervisor of Visiting Teacher Department and Child Guidance, Portland Public Schools.
- ELIZABETH MONROE DREWS, M.Ed., Instructor in Education, Portland Center.
- SAIDIE ORR DUNBAR, B.Litt., State Executive Secretary, Oregon Tuberculosis Association.
- J. W. EDWARDS, M.S., Deputy Superintendent, Portland Public Schools.
- KARL DAVID ERNST, Mus.M., Supervisor of Music, Portland Public Schools.
- LUCILE ELIZABETH FENN, M.A., Director of Primary and Kindergarten Education, Portland Public Schools.
- CALVIN B. FOULK, M.A., Instructor in Zoology, Portland Center.
- PAUL F. GAISER, Ph.D., Superintendent of Schools, Vancouver, Washington.
- FLORENCE HOLMES GERKE, B.S., Instructor in Landscape Architecture, Portland Center.
- MARY ELIZABETH GILMORE, B.A., Assistant Supervisor, Radio Station KBPS, Portland Public Schools.
- CARLIE GILSTRAP, M.S., Supervisor of Social Studies, Portland Public Schools.
- WILLIAM H. GIVLER, Instructor in Art, Museum Art School.
- CYRIL K. GLOYN, Ph.D., Professor of Philosophy and Religion, Pacific University.
- RUTH ELISE HALVORSEN, M.A., Supervisor of Art, Portland Public Schools.
- JOHN L. HASKINS, M.D., Medical Supervisor, Morningside Hospital.
- ALFRED R. HEDRICK, M.A., Instructor in English, Portland Center.
- PAUL W. HELLER, B.S., Instructor in Physics, Portland Center.
- ALFRED J. HERMAN, Instructor in Romance Languages, Portland Center.
- CLEMENTINE HOFF, Instructor in Art, Museum Art School.
- DOUGLAS E. HUFF, B.S., Instructor in Engineering, Portland Center.
- GEORGE WILSON HUTTON, B.S.F., M.F., Industrial Safety Engineer, Oregon Safety Association.
- CHARLA BOONE ILGNER, B.S., Instructor in Art, Portland Center.
- ZENO B. KATTERLE, M.A., Assistant Superintendent, Portland Public Schools.
- LETA M. KENNEDY, B.S., Instructor in Art, Museum Art School.
- VERA K. KRIVOSHEIN, Instructor in Russian, Portland Center.
- DOROTHEA M. LENSCH, M.A., Director of Recreation, Portland Bureau of Parks and Public Recreation.
- FREDERIC LITTMAN, Resident Artist, Reed College; Instructor in Sculpture, Museum Art School.
- WATT A. LONG, M.A., Assistant Superintendent, Portland Public Schools.
- LEWIS C. MARTIN, Ph.D., Director of Child Study and Special Education, Portland Public Schools.
- DONALD MARYE, B.A., Director of Portland Civic Theatre.

WILLARD MEARS, Assistant Production Manager, Radio Station KOIN.
 MARGARET C. MOREHOUSE, M.A., Instructor in Home Economics, Portland Center.
 HAZEL R. NEWHOUSE, M.A., Instructor in Geography, Portland Center.
 PHILIP HENRY OVERMEYER, Ph.D., Assistant Wage Stabilization Officer, West Coast Lumber Commission.
 DAVID S. PATTULLO, B.A., C.P.A., LL.B., Instructor in Business Administration, Portland Center.
 CLIFFORD E. PERRY, M.S., Assistant Superintendent, Portland Public Schools.
 SIDNEY PHILLIPS, M.A., Instructor in History, Portland Center.
 GEORGE W. PLATZMAN, M.S., Instructor in Meteorology, Portland Center.
 CORINNE POUTEAU, Bachelière-ès-Lettres, Alençon, Lecturer in Romance Languages, Reed College.
 LOUIS E. RYDELL, B.S. in C.E., Head of Planning and Layout Section, United States Engineer Department.
 JESSIE M. SHORT, M.A., Assistant Professor of Mathematics, Reed College (retired).
 DORIS SMITH, Instructor in Speech and Dramatic Arts, Portland Center.
 WILLARD B. SPALDING, Ed.D., Superintendent, Portland Public Schools.
 DONALD P. THAYER, Head of Major Structures Section, United States Engineer Department.
 KENNETH G. TOWER, M.S., Engineer, United States Engineer Department.
 KINGSLEY TRENHOLME, M.A., Supervisor of Visual Education, Portland Public Schools.
 ROY N. VERNSTROM, B.S., Instructor in Advertising, Portland Center.
 CHARLES H. VOORHIES, Instructor in Art, Museum Art School.
 WARREN H. WILCOX, Ph.D., Instructor in Psychology, Portland Center.
 ROBERT H. WILLIAMS, Personnel Director, Bingham Pump Company.
 JAY R. WILSON, B.A., C.P.A., Instructor in Business Administration, Portland Center.
 BEATRICE YOUNG, Ph.D., Professor of Romance Languages, Pacific University.
 MARION ZOLLINGER, M.A., Supervisor of English, Portland Public Schools.

The Portland Extension Center

THE General Extension Division of the Oregon State System of Higher Education is the agency through which the University of Oregon, Oregon State College, and the three Oregon Colleges of Education render service through extension classes, short courses, correspondence study, in-service extension in elementary education, visual instruction, radio programs, and summer sessions. General Extension activities in Portland are administered through the Portland Extension Center.

For the academic year 1945-46 the Portland Center announces 137 evening, afternoon, and Saturday morning courses in 22 departments and professional schools. The work of these classes is of standard college or university grade.

The academic year is divided into three terms. For 1945-46 the dates are as follows: fall term, September 24 to December 15; winter term, January 2 to March 23; spring term, March 25 to June 8.

The office of the Portland Center is at 814 Oregon Building, Southwest Oak street at Fifth. The telephone number is ATwater 2165. The office is open daily from 9:00 a.m. to 5:00 p.m., with the exception of Saturday when it closes at noon. Classes are held in the Lincoln High School Building, 1620 Southwest Park avenue, except where another place is indicated in the schedule.

Admission

SINCE the purpose of Portland Center instruction is to serve all who wish to take the courses and who are able to profit by them, there are no formal requirements for admission, except for those who are working toward degrees. In any course, however, the instructor may require evidence that prerequisite work has been done. All persons working toward degrees are required to file credentials and matriculate. Students in the Portland Center are classified in four academic divisions:

(1) Students formally enrolled for undergraduate credit who have satisfied the entrance requirements and have filed credentials with the registrar of one of the institutions of the Oregon State System of Higher Education.

(2) Students who have not formally filed their credentials and are taking work for provisional credit. Such credit may be validated as regular university or college credit upon the formal admission of the student.

(3) Those formally enrolled as graduate students, working toward master's degrees, or enrolled for credit beyond the bachelor's degree.

(4) Students not working for credit—a considerable number of men and women taking courses for their cultural and practical value.

Admission to First-Year Standing. The requirements for admission to first-year or freshman standing for work toward a degree conform to the uniform entrance requirements adopted by all the higher educational institutions of Oregon.

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

Admission with Advanced Standing. Advanced standing is granted to students transferring from accredited institutions of collegiate rank. All applications for advanced standing must be submitted to the registrar and must be accompanied by official transcripts covering both high-school and college records.

Credit Regulations

RESIDENT credit in the University of Oregon, Oregon State College, and the Oregon Colleges of Education may be earned in Portland Center courses, to the extent that these courses meet the requirements of the major schools of the University and the State College or the graduation requirements of the Colleges of Education.

Under the regulations of the Oregon State System of Higher Education, for a degree from the University of Oregon, Oregon State College, or the Oregon Colleges of Education, a minimum of 45 term hours (normally the last 45) must be taken in residence. This requirement, with the approval of the institutional academic requirements committee, may be satisfied in the Portland Extension Center and the Portland Summer Session.

Students desiring to work toward degrees should confer with an adviser in the Portland Center office regarding the requirements of the schools or departments in which their majors have been selected.

Group Requirements. To receive the Junior Certificate and to be admitted to upper-division standing, lower-division students must satisfy all the requirements for the certificate, as stated in the catalogs of the institutions of the State System, including the group requirements. Courses satisfying group requirements at the University of Oregon and Oregon State College are offered in the Portland Center; students should consult an adviser in the Portland Center office in regard to these requirements.

Upper-division transfers from other accredited institutions may already have satisfied the group requirements. Students should, however, always clear this point in advance with the registrar of the institution in which they are matriculating by filing their transcripts of credits and applying for advanced standing.

Before registering in the Portland Center, students should bring their statements of standing or summaries of record to an adviser in the Portland Center office, so that the most effective schedule of courses may be planned in conformance with the various curricula of the State System.

If a student takes two or more courses which duplicate each other even in part, he will receive credit for only one of them.

Students are reminded that the primary purpose of the Portland Center and the limitations of the budget do not make it possible always to offer courses which individuals may need to fulfill degree requirements.

Registration

STUDENTS may register daily, except Saturday, from 9:00 a.m. to 5:00 p.m., and on Saturday from 9:00 a.m. to 12:00 noon, at the Portland Center office, 814 Oregon Building, 509 Southwest Oak street. During the first two weeks of each term they may also register in the evenings, except Friday and Saturday, from 6:45 p.m. to 9:15 p.m., at Lincoln High School, 1620 Southwest Park avenue.

Fees and Refunds

FEEES are payable during the first two weeks of each term. The registration fee for the fall term will be due not later than October 6; for the winter term, January 15; for the spring term, April 6. A late-registration fee of 50 cents per week will be charged after these dates; *registration fees will not be accepted after the sixth week of a term.*

Registration is not completed until all fees are paid. Checks should be drawn to the order of the Portland Extension Center. *Students are held responsible for knowledge of fees and dates of payment.*

REGISTRATION FEES

Undergraduates.....	\$2.50 per credit hour (minimum fee, \$5.00)
Students register as undergraduates if working toward bachelor's degrees or desiring grades.	
Graduates.....	\$3.00 per credit hour (minimum fee, \$6.00)
Students register as graduates if taking advanced work beyond the bachelor's degree	
Auditors.....	\$2.00 per credit hour (minimum fee, \$5.00)
Students register as auditors if attending classes but not expecting grades.	
Service Men and Women.....	\$1.00 per credit hour
Students in military service registering either for undergraduate credit or as auditors pay this fee.	
Special Course Fees.....	see course descriptions

For certain courses no reduction in fees is allowed auditors. These courses are indicated by an asterisk (*) preceding the course number.

The registration fee for students who enter classes as auditors after the middle of a term is \$5.00 for one or two courses.

LATE-REGISTRATION FEES

Students who register after the second week of a term pay a late-registration fee in addition to the regular registration fee indicated above. The schedule of late-registration fees follows:

3rd week.....	\$.50
4th week.....	1.00
5th week.....	1.50
6th week.....	2.00
After 6th week.....	fees not accepted

FEE REFUNDS

Refund of fees will be granted only to students who are obliged for sufficient reason to withdraw from the Portland Extension Center. Written notification should be sent to the Portland Center office, stating the reason for withdrawal. Refunds are calculated from the date of notification rather than from the date class attendance ceased. Refunds of less than \$1.00 are not granted. The refund schedule follows:

To close of 2nd week.....	full fee less \$1.00
To close of 3rd week.....	½ of fee less \$1.00
To close of 4th week.....	¼ of fee less \$1.00
After close of 4th week.....	no refunds granted

Exceptions. Special provision will be made for men and women called into the military service of the United States, upon proper verification. If a Portland Center class is officially discontinued, the registration fee is refunded in full.

OTHER FEES

Degree Fee. The degree fee of \$6.50 is paid at the business office of the institution from which the degree is to be granted. No person will be recommended for a degree until he has paid all fees, including the degree fee.

Examination Fee. An examination fee of \$10.00 is paid by students not regularly registered in the Portland Center, who take examinations for advanced degrees. Registered students whose fees total less than \$10.00 pay the difference between their registration fees and \$10.00 for the privilege of taking such examinations.

Transcript Fee. A transcript fee of \$1.00 is charged for each transcript of credits issued after the first one, for which no charge is made.

Final Examination Schedule

FINAL examinations are held during the last week of each term and regular lectures are not given during that week, with the exception of science classes. Science classes hold examinations on the second class night of the week. For classes meeting twice a week, the examination schedule follows:

Monday and Wednesday, 6:45-8:00 classes.....	Monday, 7:00-9:00
Monday and Wednesday, 8:10-9:25 classes.....	Wednesday, 7:00-9:00
Tuesday and Thursday, 6:45-8:00 classes.....	Tuesday, 7:00-9:00
Tuesday and Thursday, 8:10-9:25 classes.....	Thursday, 7:00-9:00

Grading System

THE quality of student work is measured by a system of grades and grade points. The grading system consists of four passing grades: A (exceptional accomplishment); B (superior); C (average); D (inferior); F (failure); INC (incomplete); W (withdrawn). When the quality of the work is satisfactory but the course has not been completed, for reasons acceptable to the instructor, a report of INC may be made and additional time granted for completion of the work—but not to exceed one year following the end of the term in which the INC is received. Students may withdraw from a course or change from credit student to auditor not later than the eighth week of a term by notifying the Portland Center office.

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

Course Numbering System

THE courses in this catalog are numbered in accordance with the course numbering system of the Oregon State System of Higher Education. Lower-division (freshman and sophomore) courses are numbered below 300; upper-division (junior and senior) courses are numbered from 300 to 499; courses numbered 400 to 499 are primarily for seniors, but certain of these courses may be

taken for graduate credit, in which case the course is designated (G); graduate courses are numbered 500 to 599.

A "p" following a course number indicates, (1) that the course, while similar to a course of that number in one or more of the official catalogs of the State System, is modified in some respect for Portland Center offering; or (2) that the course has no parallel in the State System of Higher Education.

Cooperative Courses

A NUMBER of courses are offered by the Portland Extension Center in cooperation with other agencies.

Art Classes at the Portland Art Museum. The Portland Extension Center and the Museum Art School jointly offer eleven courses in art which provide a variety of study for the beginner as well as for the advanced student. These courses carry lower-division credit, if desired, or upper-division credit when the prerequisites have been met. Fees are \$8.00 per term for each class; the fee does not include cost of materials unless the course description indicates that this cost is covered. All of the classes meet at the Portland Art Museum.

In-Service Training Courses for Portland Teachers. In cooperation with the Portland Public Schools, fifteen courses are offered as a part of the in-service training program of the school system. These classes meet at Grant High School from 4:30 to 6:15 p.m., and are open to anyone who wishes to register for them. The courses all carry credit, and the fees are the same as for regular Portland Extension Center classes.

Portland Civic Theatre Drama Courses. The director of the Portland Civic Theatre and instructors in the Civic Theatre School teach classes in acting for beginners and advanced students throughout the regular school year, as well as in the Portland Summer Session. This cooperative arrangement makes the facilities of the Civic Theatre available to drama students in the Portland Extension Center.

Graduate Work

IN certain fields graduate work may be taken in the Portland Extension Center, leading to degrees from the University of Oregon or Oregon State College.

A student may complete all the requirements for the Master of Arts (General Studies) degree at the Portland Center. A student may also complete all of the work for the Master of Education (professional teaching degree), with the exception of a minimum of eight term hours which must be taken in residence on the campus of the institution. In a number of fields, one-third of the work for the Master of Arts (departmental) and the Master of Science degree may be taken in Portland. Graduate work beyond the master's degree is not offered at the Portland Center.

Admission. A graduate of any accredited college or university is admitted to the Graduate Division by the registrar of the institution from which he wishes to receive his master's degree, upon filing an application for admission and submitting an official transcript of his undergraduate credits. Such admission, however, does not of itself entitle a student to become a candidate for a degree.

Qualifying Examination. Each student working toward a master's degree is given a qualifying examination. He should arrange with the graduate adviser

to take the examination before completion of one-third of the work for the degree. When the qualifying examination has been passed, the student is advanced to candidacy for the degree.

Graduates of the University of Oregon who have taken the bachelor's degree with honors in the field of the graduate major are ordinarily exempt from the qualifying examination. Graduates of Oregon State College who have maintained a grade-point average of at least 3.25 throughout their undergraduate period may be exempted from taking the qualifying examination.

Transferred Credit. Not more than 15 term hours can be transferred from another institution toward the master's degree. Transferred credit is provisional until the qualifying examination is taken.

Preparation Required. For a graduate major, the equivalent of an undergraduate major in the same subject is required. Preparation for a graduate minor must be at least a one-year sequence of upper-division work in addition to foundational courses in the subject.

Study Program. Graduate students beginning work toward a degree are expected to plan with the graduate adviser, in tentative form at least, a complete program of study leading toward the degree desired.

Time Limit. All work for a master's degree, including work for which credit is transferred, thesis, and final examination, must be completed within a period of five years.

Course Requirements. Of the 45 term hours required for the Master of Arts (departmental) degree, 30 hours must be in major courses and approximately 15 in minor or service courses. Of the 30 hours of the major, 9 are reserved for the thesis. Approximately 9 term hours in addition to the thesis must be in strictly graduate courses, i.e., those numbered 500 to 599.

The student's program must include courses from at least three members of the graduate faculty, amounting to not less than 6 term hours from each.

Grade Requirement. An average grade of B (grade-point average, 3.00) is required for all course work for the master's degree. Grades below C are not accepted for graduate credit.

Language Requirement. For the Master of Arts (departmental) degree the student must show, by examination or by adequate undergraduate courses, a reading knowledge of one foreign language, preferably French or German. For the Master of Science degree there is no foreign-language requirement.

Thesis and Final Examination. Information concerning the form for typing the thesis may be obtained from the graduate office on the campus where the degree is to be taken. Theses must be filed in the graduate office two weeks before the final examination. This examination will be given on the campus of the institution by which the degree is to be granted.

Registration. To register, a graduate student should obtain a blue registration card at the Portland Center office, fill it in completely, and have it signed by his instructors and adviser. The card should be filed when the registration fee is paid. *Graduate credit cannot be recorded if the blue card is not filed.*

Master of Arts (General Studies). The degree of Master of Arts (General Studies) is granted for study of a problem on the graduate level for which spe-

cialization in a single major field is unsuitable. All or part of the work for this degree may be taken in the Portland Extension Center.

The degree is "general" only in terms of the approach through the resources of several departments, but may be intensive in terms of the subject, period, or problem studied. A program of study for the M.A. (General Studies) is usually formulated in terms of an integrated complex of courses, including study in two or more departments. A considerable range of programs may be worked out in the Portland Center.

The purpose of the general-studies program is to adapt graduate study to the particular needs of the individual student, insofar as this is possible. While there is no general language requirement, a language may be required to complete certain course complexes. The thesis requirement may be waived by the institutional committee in charge of the general-studies program, upon the recommendation of the adviser. Requirements regarding credits, grades, time limit, hours, and qualifying and final examinations are the same as for departmental degrees. A student wishing to work toward this degree should make application through the Portland Center office either before or as soon as he enters upon graduate study.

Master of Education. All work required for the Master of Education degree may be taken in the Portland Extension Center, except 8 term hours, which must be completed in residence on the University or the State College campus. This is a professional degree and teaching experience is necessary for the fulfillment of the requirements. An integrated program is worked out for the prospective candidate, including work in an area of concentration which conforms to the student's professional teaching interests or teaching fields. A thesis is not required.

General graduate regulations governing admission to the Graduate Division, time limit, grades, undergraduate preparation, and qualifying and final examinations apply. Information and detailed instructions may be obtained at the Portland Center office.

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 Portland Extension Center reserves the right to discontinue any announced course because of insufficient enrollment or for other reasons.

ART

ASSOCIATE PROFESSOR: BALDINGER. INSTRUCTORS: GIVLER, HALVORSEN, HOFF, ILGNER, KENNEDY, LITTMAN, VOORHIES.

DRAWING AND PAINTING

LOWER-DIVISION COURSES

AA 290. **Lower-Division Painting.** 1 hour each term.

Instruction in problems of the individual student, and in the use of a variety of mediums. Voorhies. Tuesday, 7:30-9:30; Museum Art School. Registration fee, \$8.00 each term.

AA 291. **Lower-Division Drawing.** 1 hour each term.

Emphasis on drawing from objects and the model in a variety of mediums. Voorhies. Tuesday, 7:30-9:30; Museum Art School. Registration fee, \$8.00 each term.

AA 292. Lower-Division Composition. 1 hour each term.

Compositional drawing in black and white mediums, for students with previous training. Givler. Wednesday, 7:30-9:30; Museum Art School. Registration fee, \$8.00 each term.

UPPER-DIVISION COURSES

AA 490. Upper-Division Painting. 1 hour each term.

Advanced problems in painting. Work in all mediums and on individual problems. Prerequisite: 15 hours credit in AA 290. Voorhies. Thursday, 7:30-9:30; Museum Art School. Registration fee, \$8.00 each term.

AA 492. Upper-Division Composition. 1 hour each term.

Advanced problems in composition. Opportunity for development of drawings in lithography and the etching processes. Prerequisite: 15 hours credit in AA 292. Givler. Wednesday, 7:30-9:30; Museum Art School. Registration fee, \$8.00 each term.

SCULPTURE

LOWER-DIVISION COURSES

AA 293. Lower-Division Sculpture. 1 hour each term.

Experience with modeling from the figure and imagination, and practice in casting. Progressive series of problems in sculpture. Littman. Wednesday, 7:30-9:30; Museum Art School. Registration fee, \$8.00 each term.

UPPER-DIVISION COURSES

AA 493. Upper-Division Sculpture. 1 hour each term.

Progressive series of problems in sculpture, including original sketches in clay from life, as well as carefully executed works in stone. Prerequisite: 15 hours credit in AA 293. Littman. Wednesday, 7:30-9:30; Museum Art School. Registration fee, \$8.00 each term.

ART EDUCATION

UPPER-DIVISION COURSES

AA 414p-a, 414p-b, 415p. Art Education. 2 hours each term.

Art education at the elementary and secondary levels. Subject matter, materials, methods of presentation, in relation to a modern curriculum. Choice and use of pictures in relation to units of work, art concepts, and activities in the social sciences and social studies; conversational material for the language arts, music, etc. Demonstration and general class participation. Halvorsen. Thursday, 7:15-9:00; Room 301. Registration fee, \$5.00 each term.

GENERAL ART

LOWER-DIVISION COURSES

AA 114a, 114b, 114c. Survey of Creative Arts (Studio). 1 hour each term.

For beginners and laymen. A survey of many aspects of the arts with discussions and practice in drawing, composition, painting, and sculpture. The course aims to increase the student's powers of observation and expression and to lead to a better understanding of the arts. Fee includes cost of materials for the class. Hoff. Tuesday or Thursday, 7:30-9:30; Museum Art School. Registration fee, \$8.00 each term.

AA 115a, b, 116. Survey of Creative Arts. 2 hours each term.

The arts explained through their human and social causes. What appreciation is, how the habit of appreciation may be developed, and how it relates to daily living and to individual needs. Baldinger. Wednesday, 7:30-9:30; Museum Art School. Registration fee, \$8.00 each term.

AA 296. Lower-Division Applied Design (Ceramics). 1 hour each term.

Creative approach to ceramics, including knowledge of various clays, building of forms by hand, and experience with glazes. Kennedy. Section I: elementary group. Wednesday, 7:30-9:30; Museum Art School. Section II: design problems with emphasis on ceramics, for those with some work in ceramics. Thursday, 7:30-9:30; Museum Art School. Registration fee, \$8.00 each term.

AA 296. Lower-Division Applied Design (Metalwork). 1 hour each term.

Creative approach to metalwork, including study of materials, techniques, and design involved in hollow-ware and jewelry. Class limited to 15. Ilgner. Monday, 4:00-6:00, Kraemer Building, 206 S.W. Washington Street. Registration fee, \$8.00 each term.

UPPER-DIVISION COURSES

AA 496. Upper-Division Applied Design (Ceramics). 1 hour each term.

Advanced problems in design with emphasis on ceramics. Prerequisite: 15 hours credit in AA 296. Kennedy. Thursday, 7:30-9:30; Museum Art School. Registration fee, \$8.00 each term.

BACTERIOLOGY

(See Public Health)

BUSINESS ADMINISTRATION

PROFESSOR: COMISH. ASSOCIATE PROFESSORS: COLLIER, JANNEY. INSTRUCTORS: PATTULO, WILLIAMS, VERNSTROM, WILSON.

ACCOUNTING

LOWER-DIVISION COURSES

BA 111p-a, 111p-b, 112p-a. Constructive Accounting I. 2 hours each term.

An introductory course to the field of accounting. No prior experience or training in bookkeeping or accounting is expected of students who enroll. Functions of accounts, relations of accounts to each other, and the purpose of accounting records in modern business procedure. Attention devoted to problems illustrating the theory of double entry, both in single transactions and in the operation of a complete set of accounts. A limited amount of practice-set work required. Wilson. Monday, 7:15-9:00; Room 104.

BA 112p-b, 113p-a, 113p-b. Constructive Accounting II. 2 hours each term.

Continuation of BA 111p, 112p-a. Details of accounting in the various forms of business organization; amplification of business records and accounts, leading to a knowledge of all that is required in the preparation of comprehensive operating and financial statements. Problems and practice-set work required; thorough training in the technique of opening and closing a set of books. Students with some practical training in accounting, but not prepared for advanced accounting, may enroll in this course. Janney. Monday, 7:15-9:00; Room 106.

UPPER-DIVISION COURSES

- BA 420p-a, 420p-b. **C.P.A. Problems.** 2 hours each term, fall and winter terms. Intensive study of problems and questions asked by examining boards and in the American Institute of Accountants' examinations. Training in correct analysis and correct form, and in speed in solving problems. Prerequisite: adequate preparation, to be determined by the instructor. Wilson. Wednesday, 7:15-9:00; Room 104.
- BA 483p, 484p, 485p. **Accounting Theory and Practice.** 2 hours each term. Presupposes a thorough knowledge of accounting from the constructive standpoint. Advanced accounting principles, functions and preparation of special statements, and ratio analysis of financial statements. Considerable attention given to problems and legal aspects of accounting in partnership and corporate forms of business organization. Prerequisite: BA 111p, 112p, 113p or equivalent. Janney. Tuesday, 7:15-9:00; Room 106.
- BA 490p, 491p, 492p. **Advanced Accounting Theory and Practice.** 2 hours each term. Aims to give a thorough professional training in practical accounting theory and practice in preparation for the certified public accountant examination, and for position of auditor, comptroller, or executive. The different classes of audits—balance sheet, detailed, continuous, cash—and special investigations are treated in detail. Prerequisite: BA 483p, 484p, 485p or equivalent. Janney. Wednesday, 7:15-9:00; Room 317.
- BA 493p-a, 493p-b. **Income-Tax Procedure.** 2 hours each term, fall and winter terms. Study of the income-tax laws of the United States and the state of Oregon, including regulations, treasury decisions, and other pertinent administrative rulings. The preparation of individual, partnership, and corporate returns; settlement of tax disputes. New developments in income-tax law emphasized. Pattullo. Tuesday, 7:15-9:00; Room 104.

GENERAL BUSINESS ADMINISTRATION

UPPER-DIVISION COURSES

- 414 p-a, 414p-b. **Personnel Management.** 2 hours each term, fall and winter terms. Principles and policies involved in obtaining and maintaining a competent cooperative working force. Reconciliation of the wants of the worker and the employer; labor problems; recruiting selection, placement, training, remuneration, health, safety, risks, grievances, turnover, transfer, classification, supervision, promotion, personal development. Williams. Tuesday, 7:15-9:00; Room 115.
- BA 416p, 417p, 418p. **Business Law.** 2 hours each term. Study of fundamental law applying in business situations, made concrete by actual cases and illustrative problems. Fall term: Contracts, their formation, performance, and discharge; agency. Winter term: Negotiable instruments—checks, notes, and drafts; their negotiation, banking, and discharge. Real-estate mortgages, landlord and tenant. Spring term: Personal property, sales, bailments, and chattel mortgages. Business organizations, partnerships and corporations; the rights and liabilities of business carried on in these forms. Collier. Wednesday, 7:15-9:00; Room 203.
- BA 436p. **Retail Merchandising.** (G) 2 hours winter term. Retail policies and problems. Stock-control systems, buying, methods of sales promotion, plant operation, personnel, credit, turnovers, pricing, expense classification and distribution. Comish. Friday, 7:00-8:45; Room H, Central Library.

- BA 439p, 440p, 441p. **Advertising.** 2 hours each term. Retail and public-relations advertising; strategy of trade-mark advertising; practical market research; newspaper and magazine copy, layout, and illustration; psychology of advertising, with special emphasis on attention and desire through exploitation of buying motives; direct-mail letters and folders. Planned for executives, merchants, salesmen, prospective copy writers, layout men, radio announcers, and continuity writers. Vernstrom. 7:15-9:00; Room 107.
- BA 442p. **Principles of Salesmanship.** (G) 2 hours spring term. Principles and techniques of personal salesmanship; selling reactions. From the standpoint of seller and buyer. Comish. Friday, 7:00-8:45; Room H, Central Library.

GRADUATE COURSE

- BA 501. **Advanced Commercial Research.** Terms and hours to be arranged. Comish.

See also:

Ec 201, 202, 203. Principles of Economics.	Geo 433. Geography of Middle America.
Ec 418p, 419p. Public Finance.	Psy 205. Applied Psychology.
Geo 426. Geography of Europe.	Rht 217p. Business English.
Geo 428. Geography of the Pacific.	SD 325p, 326p. Public Speaking for Business and Professional Men and Women.
Geo 429. Geography of North America.	SD 333. Conduct of Group Discussion.
Geo 430. Geography of South America.	
Geo 431. Geography of Asia.	

CHEMISTRY

ASSISTANT PROFESSOR: TODD. INSTRUCTOR: THOMPSON.

LOWER-DIVISION COURSES

- *Ch 101, 102, 103. **Elementary General Chemistry.** 4 hours each term. A year sequence for students desiring an introduction to the general field. Lecture, Todd, Wednesday, 6:30-8:30; Room 1, Medical School. Laboratory, Thompson, Thursday, 6:30-10:30; Biochemistry Laboratory, first floor, Medical School. Laboratory fee, \$4.00 each term.

DRAMA

(See English—Speech and Dramatic Arts)

ECONOMICS

INSTRUCTORS: ARPKE, GILSTRAP, OVERMEYER.

LOWER-DIVISION COURSE

- Ec 201, 202, 203. **Principles of Economics.** 3 hours each term. The principles that underlie production, exchange, and distribution. Practical problems, such as monetary and banking reform, regulation of international trade, the taxation of land values, labor movements, regulation of railways, and the control of trusts. Overmeyer. Monday and Wednesday, 8-10-9:25; Room 113.

UPPER-DIVISION COURSES

- Ec 418p, 419p. **Public Finance.** (G) 3 hours each term, fall and winter terms.
The history and theory of public expenditures, public revenue, and public borrowing. Emphasis on the effect of public expenditures and taxation on the business cycle and full employment; the shifting, incidence, and economic effects of various forms of taxation; and the theories of justice in taxation. Prerequisite: Ec 201, 202, 203 or consent of instructor. Arpke. Monday, 6:45-9:25; Room 115.
- Ec 425p. **Labor Problems.** 2 hours fall term.
Conditions of labor since the industrial revolution. Trade-union policies; strikes and lockouts; trade agreements; conciliation and arbitration; etc. Prerequisite: Ec 201, 202, 203 or Soc 204, 205, 206. Gilstrap. Tuesday, 4:30-6:15; Grant High School.

EDUCATION

PROFESSORS: CHAMBERS, CRAMER, HUFFAKER, JEWELL, KILLGALLON, SALSER. ASSOCIATE PROFESSORS: MILHOUS, REICHART, STEVENS. INSTRUCTORS: ANDERSON, DOBSON, DREWS, FENN, GAISER, HALVORSEN, KATTERLE, LONG, MARTIN, PERRY, SPALDING, TRENHOLM, ZOLLINGER.

NOTE: The four courses, Ed 472p, Ed 473p, Ed 474p, Ed 507 (Finance), provide the 12 hours required for administrative and supervisory credentials in Oregon, and are required for all majors in school administration.

UPPER-DIVISION COURSES

- Ed 316. **Oregon School Law and System of Education.** 2 hours winter term.
Analysis of the Oregon school system and the laws on which the system is based. Problems of Oregon schools, plans proposed for their solution, and trends in educational development in the state. Prerequisite: junior standing. Perry. Tuesday, 4:30-6:15; Grant High School.
- Ed 350p. **Elementary-School Curriculum.** 2 hours fall term.
Study of present trends in elementary-school curriculum development. Brief historical survey. The basic principles underlying modern curriculum organization. Current views of the functions and objectives of the elementary school, their implications for curriculum development and educational practices, and problems in scope and sequence. Cooperative experience in curriculum building. Long. Tuesday, 4:30-6:15; Grant High School.
- Ed 361p. **Preprimary Education.** 2 hours fall term.
An evaluation of the preprimary period in terms of opportunities it affords to build up good attitudes toward school life, to help the child to adjust himself to the group, and to develop good habits of work. How a readiness for subjects in the first-grade curriculum, such as reading, numbers, and language, may be developed. Fenn. Tuesday, 4:30-6:15; Grant High School.
- Ed 435. **Visual Aids to Instruction.** 2 hours fall term.
For those who wish to make use of teaching aids, including slides, film strips, motion pictures, exhibits, and radio. Instruction in the use of visual aids, operation of equipment, and preparation and evaluation of materials. Trenholme. Tuesday, 4:30-6:15; Grant High School.
- Ed 440. **History of Education.** (G) 3 hours winter term.
A general review of the growth and development of education and its relation to the civilization of the times; emphasis on development of educational philosophies. Jewell. Friday, 6:30-9:00; Room C, Central Library.

- Ed 445. **Teaching of Art.** 2 hours fall term.
Consideration of spontaneous interest and rhythmic expression in children, with particular emphasis on the utilization of interest in maintaining normal development. An analysis of techniques and materials for teaching art. Halvorsen. Tuesday, 4:30-6:15; Grant High School.
- Ed 450p. **Applied Mental Hygiene.** 2 hours winter term.
A study of mental-hygiene principles in their application to the classroom. Emphasis on emotional and behavior problems. Investigation of counseling and case-study techniques. Drews. Wednesday, 7:15-9:00; Room 309.
- Ed 451p. **Recent Trends in Language Arts.** 2 hours fall term.
Aims, methods, and materials in developing improved written expression in the intermediate and upper grades, including instructional trends in such related skills as grammar, spelling, and handwriting. Zollinger. Tuesday, 4:30-6:15; Grant High School.
- Ed 460. **Psychology of Childhood.** (G) 3 hours spring term.
Psychological factors in the growth and development of the child. Development of physical activities, speech, mental processes, emotional behavior, and socialized activities. Prerequisite: educational psychology or general psychology. Killgallon. Friday, 6:30-9:00; Room C, Central Library.
- Ed 467p. **Hygiene of the Child.** (G) 2 hours fall term.
Factors of mental, physical, and emotional development which affect the child's adjustment to school and society; personality defects and disorders; heredity and environment in the growth of the child. Martin, Dobson. Tuesday, 4:30-6:15; Grant High School.
- Ed 472p. **Basic Course in School Organization.** (G) 3 hours fall term.
Organization of both grade and high schools; emphasis on town and city school systems. Prerequisite: Ed 311, 312, 313 or teaching experience. Huffaker. Friday, 6:30-9:00; Room H, Central Library.
- Ed 473p. **Basic Course in School Administration.** (G) 3 hours fall term.
Relations of the principal or superintendent to the school board; school buildings and building programs, pupil accounting, the teaching staff. Prerequisite: Ed 311, 312, 313 or teaching experience. Huffaker. Saturday, 9:15-11:45 a.m.; Room H, Central Library.
- Ed 474p. **Basic Course in School Supervision.** (G) 3 hours spring term.
Purpose and plans for supervision, use of tests, diagnosis of pupil difficulty, etc., as applied to both elementary and secondary schools. Prerequisite: Ed 311, 312, 313 or teaching experience. Gaiser. Thursday, 6:45-9:25; Room 115.
- Ed 475. **Tests and Measurements.** (G) 3 hours spring term.
Construction and desirable uses of various standard tests and scales for measuring achievement in elementary- and secondary-school subjects. Such elements of statistical method taught as are necessary for intelligent use of the tests. Milhaus. Tuesday, 6:45-9:25; Room 104.
- Ed 476p. **School Organization.** 2 hours fall term.
Unifying educational principles with reference to problems of school procedure and routine activities. The organization of both elementary and secondary schools. Emphasis on problems of large school systems. Katterle. Tuesday, 4:30-6:15; Grant High School.
- Ed 481p. **Alcohol Studies in the School Curriculum.** (G) 2 hours fall term.
Scientific approach to the alcohol problem; how such information may be incorporated in the school curriculum. Physiological, psychological, sociologi-

- cal, and legal aspects of alcoholism. Development of teaching materials and methods. Spalding. Thursday, 7:15-9:00; Room 115.
- Ed 482p. **Intercultural Education.** (G) 2 hours fall term.
The philosophy of intercultural education. Analysis of national, racial, religious, and socio-economic factors which tend to create intergroup tensions. Consideration of data from the social and biological sciences and history related to these problems. Evaluation of teaching aids and methods. Anderson. Tuesday, 4:30-6:15; Grant High School.
- Ed 485. **Foundations of Curriculum.** (G) 3 hours spring term.
The implications of basic social, philosophical, and psychological factors in curriculum planning and development; appraisal of the present curriculum and significant proposals for its improvement. Stevens. Friday, 6:30-9:00; Room G. Central Library.
- Ed 487p-a, 487p-b. **Unit Construction** (G) 2 hours each term, fall and winter terms.
The objective of this course is to acquaint elementary and secondary teachers with the aims, selection, and organization of units; how to plan and teach a unit; practical methods of teaching unified and correlated types of programs; individualized study and procedure; effective use of text books and teaching aids. Teachers may register for the fall term alone, but the work of the fall term is prerequisite for registration in the winter term. Spalding. Tuesday, 4:30-6:15; Grant High School.
- Ed 492. **Social Education.** (G) 3 hours fall term.
The structure and functioning of society, as a background for the study and evaluation of education in its varied forms; the contribution of sociological principles and findings to the improvement of educational practices. Stevens. Friday, 6:30-9:00; Room G, Central Library.
- Ed 495p. **Counseling and Case Studies.** (G) 2 hours spring term.
A study of tests, texts, and other materials for facilitating the work of counseling and advising. Description, analysis, and application of principles to actual case studies in industry and in schools. Prerequisite: consent of instructor. Salsler. Tuesday, 7:15-9:00; Room 105.
- GRADUATE COURSES
- Ed 501. **Educational Research.** Terms and hours to be arranged.
- Ed 505. **Reading and Conference.** Terms and hours to be arranged.
- Ed 507. **Seminar: Mental Hygiene in the Guidance and Personnel Program.** 2 hours fall term.
Means and methods of assisting students and others with their personal and vocational problems. The importance of emotional adjustment on the part of pupils and teachers will be especially stressed. Prerequisite: educational psychology or consent of instructor. Chambers. Tuesday, 7:15-9:00; Room 105.
- Ed 507. **Seminar: Improving Study Habits and Results.** 2 hours winter term.
Planned for prospective counselors, advisers, and teachers who wish to become better acquainted with techniques and devices used to carry on advisory work. Specific methods for the improvement of study habits and results. Prerequisite: Ed 507 (Chambers) or consent of instructor. Reichart. Tuesday, 7:15-9:00; Room 105.
- Ed 507. **Seminar: School Finance.** 3 hours winter term.
A study of the major problems of financing education and computing the cost of education. The problems of school revenues, the capital cost of education, budget making. Prerequisite: Ed 311, 312, 313 or consent of instructor. Cramer. Thursday, 6:45-9:25; Room 115.

- Ed 512. **Research Procedures in Education.** 3 hours winter term.
The nature and methods of research in the field of education; formulation of an individual educational problem; application of research techniques to the solution of the chosen problem. Stevens. Friday, 6:30-9:00; Room G, Central Library.
- Ed 561. **Advanced Educational Psychology.** 3 hours spring term.
Review of some modern viewpoints in educational psychology; discussion of useful experimental material. Prerequisite: graduate standing in education. Killgallon. Saturday, 9:15-11:45 a.m.; Room C, Central Library.
- Ed 586. **Philosophy of Education.** 3 hours winter term.
Study of the broad fundamental principals and problems of education, as evaluated by the various schools of philosophical thought. Jewell. Saturday, 9:15-11:45 a.m.; Room C, Central Library.

ENGINEERING

PROFESSOR: HOLCOMB. INSTRUCTORS: HUFF, HUTTON, RYDELL, THAYER, TOWER.

LOWER-DIVISION COURSES

- GE 101, 102, 103. **Engineering Problems.** 2 hours each term.
Elementary problems dealing with the general fields of civil, electrical, industrial, and mechanical engineering; the aim is to give practice in engineering computations and to train the student in engineering habits of work. Huff. Monday, 7:15-9:00; Room 301.

UPPER-DIVISION COURSES

- GE 341p. **Industrial Safety Engineering.** 2 hours fall term.
Procedures essential to an industrial safety program—accident reports, accident-prevention classification, injury records, safety organization, accident investigation, safety inspection, safety educational programs, safety educational media, first aid. Hutton. Thursday, 7:15-9:00; Room 309.
- CE 491p. **Hydraulic Design.** 4 hours fall term.
Application of the laws of fluid motion to the analysis and design of problems in hydraulic engineering. Prerequisite: mechanics (kinetics) and calculus. Class limited to 25. Tower. Monday and Friday, 7:00-8:45; Room F, Central Library.
- CE 492p, 493p. **Planning, Selection, and Design of Dams.** (G) 3 hours each term, fall and winter terms.
Investigation of dam sites, choice of type of dam, preparation and protection of the foundation, flood flows, forces on dams, hydraulic model studies, general procedure for design of dams. Internal stresses and stress concentrations in gravity dams; design of solid nonoverflow gravity dams, solid spillway gravity dams, arch dams, buttressed concrete dams; general principles of design and detail of earth, rock-fill, and timber dams. Prerequisite: advanced hydraulics, and structural engineering, or equivalent training with consent of instructor. Class limited to 30. Holcomb, Rydell, Thayer. Monday, 6:45-9:25; Room 116.

See also:

- Ph 421p. **Elementary Meteorology** (under PHYSICS).
Ph 422p. **Descriptive Meteorology** (under PHYSICS).

ENGLISH

PROFESSORS: PARSONS, POWERS. ASSOCIATE PROFESSOR: COLLIER. INSTRUCTORS: ALDERSON, CHURCHILL, GILMORE, HEDRICK, KANTNER, MARYE, MEARS, SMITH.

LITERATURE

LOWER-DIVISION COURSES

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

Fall term: *Beowulf* to Milton. Winter term: Milton to Byron. Spring term: Byron to modern authors. Notable pieces of literature read, reported upon, discussed. Parsons. Monday and Wednesday, 6:45-8:00; Room 114.

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

A study of the important plays, comedies, histories, tragedies, and of Shakespeare himself as man and poet, in the light of his personal and artistic development. Required for majors in English. Parsons. Monday and Wednesday, 8:10-9:25; Room 114.

Eng 270p. **The Ballad.** 3 hours spring term.

Study of the traditional ballad in Britain and in America, with some attention to folk songs and folk music. Alderson. Tuesday, 6:45-9:25; Room 108.

UPPER-DIVISION COURSES

Eng 391p, 392p, 393p. **American Novel.** 2 hours each term.

Study of the American novel from its first important examples to the present time. The novel as a form of literary expression; reading of novels of distinction; and discussions of trends in substance and thought and of changing criteria. Parsons. Thursday, 7:15-9:00; Room 114.

Eng 457p, 458p, 459p. **Literature of the Renaissance.** (G) 2 hours each term.

A study of humanism and assertion of personality consonant with the accomplished expression and philosophy of the Renaissance in Italy, France, and England. Contrasts and similarities considered through the study of lyric, epic, and dramatic poetry, political and social philosophy, and developing criteria. Reading of literary masters from Dante to Moliere. Parsons. Tuesday, 7:15-9:00; Room 114.

GRADUATE COURSES

Eng 503. **Thesis.** Terms and hours to be arranged.

Parsons.

Eng 505. **Reading and Conference.** Terms and hours to be arranged.

Parsons.

Eng 507. **Seminar: Evolution of Tragedy.** 2 or 3 hours each term.

From Aeschylus to Dryden. Parsons. Saturday, 9:15-11:00 a.m.; Room F, Central Library.

RHETORIC

LOWER-DIVISION COURSES

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

The fundamentals of English composition and rhetoric, with frequent themes in the various forms of discourse: exposition, argument, description, and narration. Special attention to correctness in fundamentals, to the organization of papers, and to the essentials of good writing. Collier. Section I, Tuesday

and Thursday, 6:45-8:00; Room 203. Section II, Tuesday and Thursday, 8:10-9:25; Room 203.

Rht 114p, 115p, 116p. **Vocabulary Building.** 2 hours each term.

Designed to expand and sharpen vocabularies and otherwise to improve the use of English. A study of words. New words, the right word, diction, pronunciation; an effective program for acquiring and using the forms and mechanics of writing. Collier. Monday, 7:15-9:00; Room 203.

Rht 217p-a, 217p-b. **Business English.** 2 hours each term, fall and winter terms.

A study of present-day methods in presentation of business and professional reports, appeals, correspondence, speeches; discussion of modern technique in punctuation, grammar, diction, paragraphing, and other matters of format. Hedrick. Tuesday, 7:15-9:00; Room 108.

UPPER-DIVISION COURSES

*Rht 311, 312, 313. **Advanced Short-Story Writing.** 2 hours each term.

A professional course in writing the short story to satisfy contemporary reading interests and publishing necessities. The short story as a literary form; mastery of narration as a cultural and practical skill. Constant attention to style and subject matter. Sustained practice in plot, characterization, dialogue, mood, and other essentials of the short story, and in the total story. Constructive criticism. Conferences, marketing assistance, special lectures by established authors, mutual stimulus of a group of creative writers. Prerequisite: consent of instructor. Powers. Wednesday, 7:15-9:00; Room 112. Registration fee, \$7.00.

Rht 317, 318, 319. **Versification.** 2 hours each term.

Reading of poets, study of verse forms, practice in writing of verse. Parsons. Thursday, 4:00-5:45; Room F, Central Library.

*Rht 354p, 355p. **Advanced Creative Writing.** 2 hours each term, fall and winter terms.

Writing in the various forms to provide increased ease, certainty, and force in written expression. A continuation, with emphasis on effectiveness and craftsmanship, for those who have taken lower-division courses in rhetoric. Prerequisite: consent of instructor. Powers. Tuesday, 7:15-9:00; Room 112.

See also

SD 337p. **Radio Script Writing** (under SPEECH AND DRAMATIC ARTS).

SPEECH AND DRAMATIC ARTS

LOWER-DIVISION COURSES

SD 141, 142, 143. **Voice and Diction.** 2 hours each term.

The principles and practice of voice development, correct breathing, tone quality, resonance, flexibility, and support. Study and practice of phonetic principles and the development of ease and clarity in enunciation. Churchill. Thursday, 7:15-9:00; Room 110.

UPPER-DIVISION COURSES

SD 325p, 326p. **Public Speaking for Business and Professional Men and Women.** 2 hours each term, fall and winter terms.

A practical course in actual speaking. Poise on the floor; improvement of diction and voice; organization of speech material and presentation in direct conversational style. Persuasion in speaking. Sales talks. Study of motives that impel men to action, and of ways of reaching these motives. Collier. Friday, 7:00-8:45; Room B, Central Library.

SD 333. Conduct of Group Discussion. 2 hours spring term.

Continuation of SD 326p. Conducting various types of group discussions. The board meeting, the business conference, the round table, the open forum, and the panel discussion are used in classroom projects. Chairmanship emphasized. The class analyzes and discusses current and practical questions. Collier. Friday, 7:00-8:45; Room B, Central Library.

***Sp 334p, 335p. Radio Speaking.** 2 hours each term, winter and spring terms.

Radio acting technique; microphone technique; voice and diction for radio; radio characterization; radio announcing; study of various types of radio script. Mears. Monday, 7:15-9:00; Room 110.

SD 337p. Radio Script Writing. 2 hours fall term.

Study of the technique and devices used in writing radio plays, talks, special features, adaptations, continuity forms, and public service programs. Critical study of scripts; experience in broadcasting radio programs. Gilmore. Tuesday, 4:30-6:15; Benson Polytechnic School.

***SD 337p. Radio Script Writing.** 2 hours spring term.

Study of the technique and devices used in writing radio plays, talks, special features, adaptations, continuity forms, and public service programs. Critical study of scripts. Prerequisite: consent of instructor. Powers. Tuesday, 7:15-9:00; Room 112.

***SD 341p, 342p, 343p. Technique of Acting.** 2 hours each term.

Introduction to the principles of acting technique. Problems in the analysis and presentation of character. Participation in one-act and full-length plays. Smith. Tuesday, 7:15-9:00; Room 116.

***SD 347p, 348p, 349p. Blue Room Players.** 2 hours each term.

A producing group of advanced players; actual theater practice in rehearsal and performance. Technique of the intimate and conventional theater; principles of direction, with application to acting problems. Prerequisite: SD 341p, 342p, 343p or equivalent experience and consent of instructor. Smith, Marye. Wednesday, 7:15-9:00; Room 116.

SD 235p. Speech Correction for the Classroom Teacher. 2 hours fall term.

An elementary course in speech improvement and correction at the grade-school level, stressing materials and techniques usable in the regular classroom situation. Survey of common speech defects, with consideration of preventive measures and basic principles of treatment. Phonetics applied to the correction of articulatory defects. Measures for preventing and handling stuttering in the early grades. Kantner. Wednesday, 7:15-9:00; Room 108.

***SD 489, 490, 491. Speech Clinical Practice.** 1 or 2 hours each term.

Application of theories and methods of speech therapy. Prerequisite: speech pathology or consent of instructor. Kantner. Saturday morning; hours and place to be arranged.

FOREIGN LANGUAGES

PROFESSOR: YOUNG. INSTRUCTORS: APSLER, HERMAN, KRIVOSHEIN, POUTEAU.

FRENCH**LOWER-DIVISION COURSES*****RL 1a,b, 2a. First Course in French.** 2 hours each term.

Grammar, pronunciation, composition, conversation. Translation of easy French prose and poetry. Herman. Tuesday, 7:15-9:00; Room 204.

***RL 2b, 3a,b. Second Course in French.** 2 hours each term.

This course reviews and considerably extends the knowledge of grammatical principles and the irregular verbs acquired in previous course. Exercises in pronunciation and study of idioms used in conversational French. Reading of simple texts and sight work, to develop in the student ability to read easy French without recourse to English. Pouteau. Monday, 7:15-9:00; Room 204.

UPPER-DIVISION COURSES***RL 314, 315, 316. French Composition and Conversation.** 2 hours each term.

Presupposes knowledge of French grammar. Conducted as far as possible in French. The difficulty of the conversation increases as the course progresses. Pouteau. Wednesday, 7:15-9:00; Room 204.

GERMAN**LOWER-DIVISION COURSES*****GL 1a,b, 2a. First Course in German.** 2 hours each term.

Essentials of grammar. Pronunciation, simple composition and conversation. Reading of easy German prose and poetry. Apsler. Tuesday, 7:15-9:00; Room 217.

***GL 2b, 3a,b. Second Course in German.** 2 hours each term.

This course extends the study of grammar in the previous course. Translation of prose and poetry; conversation and composition. Apsler. Thursday, 7:15-9:00; Room 217.

RUSSIAN**LOWER-DIVISION COURSES*****AL 11a,b, 12a. First Course in Russian.** 2 hours each term.

An introduction to the Russian language. Simple translation, grammar, conversation, composition. Krivoshein. Monday, 7:15-9:00; Room 217.

***AL 12b, 13a,b. Second Course in Russian.** 2 hours each term.

Rapid review of elementary Russian. Emphasis on simple conversation and easy reading. Conducted as far as possible in Russian. Krivoshein. Wednesday, 7:15-9:00; Room 217.

SPANISH**LOWER-DIVISION COURSES*****RL 11a,b, 12a. First Course in Spanish.** 2 hours each term.

Translation of common prose, conversation, composition, and grammar. Section I, Herman, Monday, 7:15-9:00; Room 309. Section II, Pouteau, Thursday, 7:15-9:00; Room 204.

***RL 12b, 13a,b. Second Course in Spanish.** 2 hours each term.

A rapid review of grammar, advanced work in syntax, writing of short essays, and reading. Conversational exercises based upon easy Spanish narrative prose. Conducted as far as possible in Spanish. Young. Tuesday, 7:15-9:00; Room 205.

UPPER-DIVISION COURSES***RL 341p-a, 341p-b, 342p. Spanish Literature.** 2 hours each term.

Reading of masterpieces of various periods. A general survey of Spanish literature. Conducted in Spanish. Young. Thursday, 7:15-9:00; Room 205.

- *RL 350, 351, 352. **Advanced Spanish Composition.** 2 hours each term.
Conversation stressed; much oral work; dialogue; questions and answers; discussion of assigned topics. Conducted in Spanish. Young. Wednesday, 7:15-9:00; Room 205.

GENERAL STUDIES

PORTLAND CENTER ADVISER: DR. HENRY E. STEVENS. UNIVERSITY COMMITTEE: DR. E. H. MOORE, CHAIRMAN. COLLEGE COMMITTEE: DR. W. H. DREESSEN, CHAIRMAN.

GRADUATE COURSES

- GSt 501. **Research in General Studies.** Terms and hours to be arranged.
GSt 503. **Graduate Thesis.** Terms and hours to be arranged.
GSt 505. **Reading and Conference.** Terms and hours to be arranged.

GEOGRAPHY

INSTRUCTOR: NEWHOUSE.

UPPER-DIVISION COURSES

- Geo 426. **Geography of Europe.** 3 hours spring term.
Some of the special problems of Europe today studied in light of the physiographic and economic background of the continent. Monday, 6:45-9:25; Room 211.
- Geo 428. **Geography of the Pacific.** 3 hours winter term.
Physical geography and natural resources of the Pacific region; social, economic, and political problems related to the geography of the region. Monday, 6:45-9:25; Room 211.
- Geo 429. **Geography of North America.** 3 hours spring term.
Physiography and resources of the continent; outstanding economic, social, and political trends, as influenced by these facts. Wednesday, 6:45-9:25; Room 211.
- Geo 430. **Geography of South America.** 3 hours fall term.
Physical, economic, and human geography of the continent; the outstanding economic, social, and political trends in South America, as influenced by these facts. Monday, 6:45-9:25; Room 211.
- Geo 431. **Geography of Asia.** 3 hours fall term.
Physical geography of the continent; the main economic, social, and political problems viewed in relation to geography. Wednesday, 6:45-9:25; Room 211.
- Geo 433. **Geography of Middle America.** 3 hours winter term.
Physical geography, natural resources, and economic and social developments of Mexico, Central America, and the islands of the Caribbean. Wednesday, 6:45-9:25; Room 211.

HISTORY

INSTRUCTORS: EDWARDS, OVERMEYER, PHILLIPS, POLLARD.

LOWER-DIVISION COURSES

- Hst 201, 202, 203. **History of the United States.** 3 hours each term.
From colonial times to the present day. Overmeyer. Monday and Wednesday, 6:45-8:00; Room 113.

UPPER-DIVISION COURSES

- Hst 341, 342, 343. **Europe Since 1815.** 3 hours each term.
Political, social, economic, and cultural trends from the fall of Napoleon to the present. Fall term: 1815 to 1870. Winter term: 1870 to 1919. Spring term: 1919 to the present. Phillips. Tuesday and Thursday, 6:45-8:00; Room 113.
- Hst 377. **Oregon History.** 2 hours fall term.
A brief survey of the building of civilization in the Oregon Country. Designed to satisfy the requirement for teacher certification. Edwards. Tuesday, 4:30-6:15; Grant High School.
- Hst 463, 464, 465. **British Overseas Empire.** 3 hours each term.
History of the dominions, of India, and of the crown colonies. Prerequisite: 9 term hours in History or consent of the instructor. Phillips. Tuesday and Thursday, 8:10-9:25; Room 113.
- Hst 475, 476. **History of the West.** (G) 3 hours each term, fall and winter terms.
The American frontier. Fall term: the early American frontier. Winter term: the trans-Mississippi West. Pollard. Thursday, 6:45-9:25; Room 105.
- Hst 477. **History of the Pacific Northwest.** (G) 3 hours spring term.
From the first explorers to the present; native society, fur-trade era, pioneer period, economic and social development. May be taken for teachers' certification in Oregon history. Prerequisite: Hst 201, 202 or consent of instructor. Pollard. Thursday, 6:45-9:25; Room 105.

GRADUATE COURSES

- Hst 501. **Research.** Terms and hours to be arranged.
Pollard.
- Hst 505. **Reading and Conference.** Terms and hours to be arranged.
Pollard.

HOME ECONOMICS

INSTRUCTORS: BLOOM, MOREHOUSE.

LOWER-DIVISION COURSES

- CT 217p-a, 217 p-b. **Clothing Selection.** 2 hours each term, fall and winter terms.
Lectures and demonstrations on the selection of clothing from the standpoint of color and design, textile selection; personal counseling on the use of patterns for simple dressmaking. The use of a paper pattern; suggestions on sewing which is done outside of class. Morehouse. Wednesday, 7:15-9:00; Room 301.
- CT 231p. **Home Furnishing.** 2 hours spring term.
Aims to develop appreciation of beauty and suitability in home furnishings; materials and processes involved. Elective for students other than majors in home economics. Morehouse. Wednesday, 7:15-9:00; Room 301.

UPPER-DIVISION COURSE

- HAd 423. **Parent Education.** 2 hours fall term.
Methods and content in parent education—a course for professional and lay people who are interested in helping parents to understand and to do effectively the job of parenthood. Bloom. Thursday, 7:15-9:00; Room 104.

HORTICULTURE

PROFESSOR: BOUQUET.

LOWER-DIVISION COURSE

Hrt 111p. **Elements of Horticulture: Home Gardening.** 2 hours winter term.

Lectures, discussions, and demonstrations dealing with horticultural crops, vegetables, small fruits, tree fruits, and flowers. Emphasis placed on principles and fundamentals of growth, propagation, soil management, garden planning, maintenance of fertility, pest control, irrigation. Special problems concerned with important crops. Greenhouse and frame management in gardening. Demonstrations during class meetings. Tuesday, 7:15-9:00; Room 211.

JOURNALISM

PROFESSOR: POWERS.

UPPER-DIVISION COURSES

*J 314p. **Technical Writing.** 2 hours fall term.

Writing and editing popular, specialized, trade, and scientific reports, articles, bulletins, and radio manuscripts. Practice in journalistic research and development of other source material, and in style, organization, and treatment. Prerequisite: consent of instructor. Monday, 7:15-9:00; Room 112. Registration fee, \$7.00.

*J 334p, 335p. **Copyediting.** 2 hours each term, winter and spring terms.

Training in giving manuscripts final form for publication. Analysis of style and subject matter; editing; writing heads, titles, captions, notes. Laboratory use of *General Extension Journal*, *Junior Historical Journal*, and other Portland publications; editing book manuscripts; preparing special publications for the press. Prerequisite: consent of instructor. Monday, 7:15-9:00; Room 112. Registration fee, \$7.00 each term.

LANDSCAPE ARCHITECTURE

INSTRUCTOR: GERKE.

LOWER-DIVISION COURSE

LA 277p-a, 277 p-b. **Planning Home Grounds.** 1 hour each term, fall and winter terms.

The principles of good design in home grounds; the arrangement of the site for modern living, adapted particularly to this locality. Relationship between house and garden, space uses, study of materials which are used in garden development—plants, pavings, masonry, wood. Tuesday, 7:15-9:00; Room 301.

MATHEMATICS

INSTRUCTOR: SHORT.

LOWER-DIVISION COURSES

Mth 101, 102, 103. **Elementary Analysis.** 4 hours each term.

Graphic processes; fundamentals of differential and integral calculus, trigonometry, analytic geometry; some methods of college algebra. Practical problems. Basic course for statistics, engineering, and scientific work. Prerequisite:

site: one year of elementary algebra. Monday and Wednesday, 7:15-9:00; Room 105.

MUSIC

INSTRUCTORS: CORY, ERNST, FENN.

LOWER-DIVISION COURSES

Mus 111a, 111b, 112a. **Theory I (First Half).** 2 hours each term.

Thorough ground work in the elements of musical science—melodic, harmonic, and rhythmic. Major and minor chords, keys, scales, intervals, and cadences studied in singing, writing, playing, and dictation. Cory. Tuesday, 7:15-9:00; Room 110.

Mus 112b, 113a, 113b. **Theory I (Second Half).** 2 hours each term.

Continuation of Mus 111, 112a. Cory. Wednesday, 7:15-9:00; Room 110.

Mus 127, 128, 129. **Appreciation of Music.** 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. Cory. Thursday, 7:00-8:45; Music Room, Central Library.

Music 284p. **Primary Music.** 2 hours winter term.

Designed for kindergarten, first-, second-, and third-grade teachers who need assistance in developing their own musical ability as a necessary factor in improving classroom music teaching. Practice given in the development of skills for reading and interpreting children's songs. A repertoire of rote songs built, including songs from supplementary sources, as well as from the new basic music adoption. Ernst and Fenn. Tuesday, 4:30-6:15; Grant High School.

UPPER-DIVISION COURSE

Mus 323. **Choral Conducting.** 2 hours fall term.

A comprehensive course designed to give experience in the interpretation and conducting of choral music. Material selected from basic elementary music texts as well as from special chorus materials. Analysis of all elements of music, such as melody, rhythm, harmony, form, and style, which are involved in its interpretation. Ernst. Tuesday, 4:30-6:15; Grant High School.

NUTRITION

INSTRUCTOR: BARRS.

UPPER-DIVISION COURSE

Nur 327a, 327b, 327c. **Nutrition.** 2 hours each term.

Provides an understanding of the basis of nutrition and the principles involved in maintaining good nutrition. The course includes a discussion of sources, nutritive values, and utilization of fats, carbohydrates, and proteins. Functions of vitamins and minerals in the body. Diet calculations and appraisal. Thursday, 7:15-9:00; Room 108.

PHYSICAL EDUCATION

PROFESSOR: LEIGHTON. ASSISTANT PROFESSOR: WENTWORTH. INSTRUCTORS: JONES, LENSCH.

LOWER-DIVISION COURSES

PE 140p, 141p. **The Modern Dance.** 1 hour each term, fall and winter terms.

A course dealing with body movements, developing from the simple tech-

niques of walking and running into the more complicated movements of individuals within a group and against a group. The personal experiences of members of the class determines the thematic materials for the term's work. Lensch. Monday, 7:15-9:00; Gymnasium.

GRADUATE COURSE

PE 507. **Physical-Education Seminar.** 2 hours each term.

Fall term: current movements in physical education, with emphasis on the new Oregon program. Leighton. Winter term: program materials and evaluation for physical fitness; emphasis in physical education. Leighton, Jones. Spring term: rhythmic in physical education; purposes, materials, demonstrations. Wentworth. Wednesday, 7:15-9:00; Room 115.

PHYSICS

INSTRUCTORS: HELLER, PLATZMAN.

LOWER-DIVISION COURSES

*Ph 201p, 202p, 203p. **General Physics.** 3 hours each term.

Mechanics, sound, heat, light, electricity, and magnetism. Heller. Lecture, Monday, 7:15-9:00; Room B. Laboratory, Wednesday, 7:15-9:00; Room C. Laboratory fee, \$3.00 each term.

UPPER-DIVISION COURSES

Ph 421p. **Elementary Meteorology.** 2 hours fall term.

Structure and general circulation of the atmosphere. Meteorological instruments and observations; temperature and humidity; atmospheric thermodynamics and thermodynamics; stability of the atmosphere. Basic aerological charts and diagrams. Class limited to 30. Platzman. Wednesday, 7:15-9:00; Room 106.

Ph 422p. **Descriptive Meteorology.** 2 hours winter term.

Air-mass analysis; fronts; cyclones and anticyclones; condensation and precipitation; special phenomena. Map analysis and forecasting. Wartime and commercial meteorology. Prerequisite: Ph 421p. Class limited to 30. Platzman. Wednesday, 7:15-9:00; Room 106.

PSYCHOLOGY

INSTRUCTORS: HASKINS, WILCOX.

LOWER-DIVISION COURSES

Psy 201, 202. **General Psychology.** 3 hours each term, fall and winter terms.

Introductory study of behavior and conscious processes. Survey of experimental studies of motivation, learning, thinking, perceiving, and individual differences. Scientific approach to problems of personal and social adjustment. Wilcox. Monday and Wednesday, 6:45-8:00; Room 107.

Psy 201, 202. **General Psychology.** 3 hours each term, winter and spring terms.

See description above. Wilcox. Monday and Wednesday, 8:10-9:25; Room 107.

Psy 204. **Psychology of Adjustment.** 3 hours fall term.

The nature and origins of differences in personality; means of making desired changes. Prerequisite: Psy 201, 202. Wilcox. Monday and Wednesday, 8:10-9:25; Room 107.

Psy 205. **Applied Psychology.** 3 hours spring term.

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. Wilcox. Monday and Wednesday, 6:45-8:00; Room 107.

UPPER-DIVISION COURSE

Psy 413. **Abnormal Psychology.** (G) 3 hours fall term.

Various forms of unusual behavior, including anxiety states, hysteria, hypnotic and spiritualistic phenomena, and the major psychoses. Normal motives and adjustment mechanisms as they are exaggerated in the behavior of the so-called neurotic person. Prerequisite: Psy 201, 202 or consent of instructor. Haskins. Thursday, 6:45-9:25; Room 116.

PUBLIC HEALTH

PROFESSORS: SEARS, WEINZIRL. INSTRUCTOR: VEAZIE.

UPPER-DIVISION COURSES

Bac 348p-a, 348p-b, 349p. **Bacteriology and Communicable Diseases.** 2 hours each term.

A study of the general characteristics of bacteria and other living disease agents, followed by a discussion of the microbiology of the principal communicable diseases of man. Sears. Tuesday, 7:15-9:00; Room 317.

Bac 350p. **Public Health.** 2 hours fall term.

A general survey of personal and community hygiene. Topics considered are: immunization, medicine, surgery, food, carriers, cleanliness, isolation, disinfection, temperature, humidity, ventilation, lighting, clothing, exercise, public health organization. Weinzirl. Thursday, 7:15-9:00; Room 211.

*Bac 351p-a, 351p-b, 351p-c. **General Microbiology Laboratory.** 1 hour each term.

An introductory laboratory study of the morphological and cultural characteristics of bacteria, with special emphasis on the microorganisms causing human disease. Bac 348p, 349p must be taken in conjunction with this course. Veazie. Thursday, 7:15-9:15; Bacteriology Laboratory, third floor, Medical School. Laboratory fee, \$3.00 each term.

*Bac 352p-a, 352p-b, 352p-c. **Medical Bacteriology and Parasitology Laboratory.** 1 hour each term.

A laboratory study of disease microorganisms and animal parasites, with special reference to the procedures used in the isolation and identification of species. One term devoted to the study of animal parasites. Prerequisite: Bac 351p or equivalent. Veazie. Tuesday, 7:15-9:15; Bacteriology Laboratory, third floor, Medical School. Laboratory fee, \$3.00 each term.

PUBLIC SPEAKING

(See English—Speech and Dramatic Arts)

SOCIOLOGY

PROFESSOR: GLOYN. ASSISTANT PROFESSOR: BEE. INSTRUCTORS: DOBSON, DUNBAR.

LOWER-DIVISION COURSES

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 advanced courses in sociology. Gloyn. Thursday, 6:45-9:25; Room 112.

UPPER-DIVISION COURSES

Soc 337p. **Problems of Child Welfare.** 2 hours fall term.

The social development of the child in his formative environment; child labor, juvenile delinquency; the changing social and legal status of the child, the child welfare movement; current and proposed policies. Bee. Friday, 7:00-8:45, room D, Central Library.

Soc 340p. **Introduction to Social Case Work.** 2 hours spring term.

Presentation of basic principles of case work applicable to families and children under care of private and public agencies, with emphasis on the causative factors of behavior; discussion and presentation of case material; review of programs of selected agencies. Dobson. Thursday, 7:15-9:00; Room 211.

Soc 426p. **Public Welfare.** 2 hours winter term.

Designed for students training for public-welfare positions. General analysis of the scope of public welfare; principles, functions, and special problems. Prerequisite: Soc 204, 205, 206 and consent of instructor. Bee. Friday, 7:00-8:45; Room D, Central Library.

Soc 431p. **Community Organization.** (G) 2 hours winter term.

Fundamentals of community organization; social factors affecting urban and rural communities; methods of analyzing community needs; the problem of interrelating the work of public and private agencies, and methods of mobilizing community resources to meet these needs; social agencies in relation to the local community; urban and rural communities and their types of organization and change. Dunbar. Monday, 7:15-9:00; Room 205.

GRADUATE COURSES

Soc 501. **Research.** 2 or 3 hours each term, fall and winter terms.

Bee. Saturday, 9:15-11:00 a.m.; Room D, Central Library.

Soc 505. **Reading and Conference.** 2 or 3 hours each term, fall and winter terms.

Bee. Saturday, 9:15-11:00 a.m.; Room D, Central Library.

ZOOLOGY

INSTRUCTOR: FOULK.

LOWER-DIVISION COURSES

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

An introductory course dealing with the principles of animal biology. Fall term: protoplasm and its properties; the cell; organ systems and the lower groups of animals. Winter term: continuation of the work of the first term; study of higher types of invertebrates and vertebrates. Spring term: embryology, heredity, eugenics, and the principal theories of organic evolution. Lecture, Monday, 7:15-9:00; Room 317. Laboratory, Wednesday, 7:15-9:00; Room 316. Laboratory fee, \$3.00 each term.

Schedule of Classes

LINCOLN HIGH SCHOOL

1620 Southwest Park Avenue

MONDAY

Course, Term, Instructor	Time	Room
ART		
AA 296. Lower Division Applied Design (Metalwork) (F,W,S) Ilgner	4:00-6:00	Kraemer Bldg.
BUSINESS ADMINISTRATION		
BA 111,2p. Constructive Accounting I (F,W,S) Wilson.....	6:45-9:25	115
BA 112,3p. Constructive Accounting II (F,W,S) Janney.....	6:45-9:25	104
ECONOMICS		
Ec 201,2,3. Principles of Economics (F,W,S) Overmeyer.....	8:10-9:25	113
Ec 418,9p. Public Finance (G) (F,W) Arpke.....	6:45-9:25	115
ENGINEERING		
GE 101,2,3. Engineering Problems (F,W,S) Huff.....	7:15-9:00	301
CE 492,3p. Planning, Selection, and Design of Dams (G) (F,W) Holcomb, Rydell, Thayer.....	6:45-9:25	116
ENGLISH		
Eng 101,2,3. Survey of English Literature (F,W,S) Parsons.....	6:45-8:00	114
Eng 201,2,3. Shakespeare (F,W,S) Parsons.....	8:10-9:25	114
Rht 114, 5,6p. Vocabulary Building (F,W,S) Collier.....	7:15-9:00	203
*Sp 334,5p. Radio Speaking (W,S) Mears.....	7:15-9:00	110
FOREIGN LANGUAGES		
*AL 11a,b,12a. First Course in Russian (F,W,S) Krivoshein....	7:15-9:00	217
*RL 2b,3a,b. Second Course in French (F,W,S) Pouteau.....	7:15-9:00	204
*RL 11a,b,12a. First Course in Spanish (F,W,S) Herman.....	7:15-9:00	309
GEOGRAPHY		
Geo 426. Geography of Europe (S) Newhouse.....	6:45-9:25	211
Geo 428. Geography of the Pacific (W) Newhouse.....	6:45-9:25	211
Geo 430. Geography of South America (F) Newhouse.....	6:45-9:25	211
HISTORY		
Hst 201,2,3. History of the United States (F,W,S) Overmeyer	6:45-8:00	113
JOURNALISM		
*J 314p. Technical Writing (F) Powers.....	7:15-9:00	112
*J 334,5p. Copyediting (W,S) Powers.....	7:15-9:00	112
MATHEMATICS		
Mth 101,2,3. Elementary Analysis (F,W,S) Short.....	7:15-9:00	105
PHYSICAL EDUCATION		
PE 140,1p. The Modern Dance (F,W) Lensch.....	7:15-9:00	Gym
PHYSICS		
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Rht 111,2,3. English Composition (F,W,S) Collier.....	8:10-9:25	203
Rht 217p. Business English (F,W) Hedrick.....	7:15-9:00	108
*Rht 354,5p. Advanced Creative Writing (F,W) Powers.....	7:15-9:00	112
*SD 337p. Radio Script Writing (S) Powers.....	7:15-9:00	112
*SD 341,2,3p. Technique of Acting (F,W,S) Smith.....	7:15-9:00	116
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*GL 1,2a. First Course in German (F,W,S) Apsler.....	7:15-9:00	217
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*RL 12b,13. Second Course in Spanish (F,W,S) Young.....	7:15-9:00	205
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Hst 341,2,3. Europe Since 1815 (F,W,S) Phillips.....	6:45-8:00	113
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Hrt 111p. Elements of Horticulture: Home Gardening (W) Bouquet.....	7:15-9:00	211
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*Bac 352p. Medical Bacteriology and Parasitology Laboratory (F,W,S) Veazie.....	7:15-9:15	Medical School
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Course, Term, Instructor	Time	Room
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Ph 421p. Elementary Meteorology (F) Platzman.....	7:15-9:00	106
Ph 422p. Descriptive Meteorology (W) Platzman.....	7:15-9:00	106
PSYCHOLOGY		
Psy 201,2. General Psychology (F,W) Wilcox.....	6:45-8:00	107
Psy 201,2. General Psychology (W,S) Wilcox.....	8:10-9:25	107
Psy 204. Psychology of Adjustment (F) Wilcox.....	8:10-9:25	107
Psy 205. Applied Psychology (S) Wilcox.....	6:45-8:00	107
ZOOLOGY		
*Z 201,2,3. General Zoology laboratory (F,W,S) Foulk.....	7:15-9:00	316

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Ed 507. Seminar in School Finance (W) Cramer.....	6:45-9:25	115
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*RL 341,2p. Spanish Literature (F,W,S) Young.....	7:15-9:00	205
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Nur 327. Nutrition (F,W,S) Bahrs.....	7:15-9:00	108
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Soc 340p. Introduction to Social Case Work (S) Dobson.....	7:15-9:00	211

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801 Southwest 10th Avenue

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Course, Term, Instructor	Time	Room
ENGINEERING CE 491p. Hydraulic Design (F) Tower.....	7:00-8:45	F

THURSDAY

ENGLISH Rht 317,8,9. Versification (F,W,S) Parsons.....	4:00-5:45	F
MUSIC Mus 127,8,9. Appreciation of Music (F,W,S) Cory.....	7:00-8:45	Music Room

FRIDAY

Course, Term, Instructor	Time	Room
BUSINESS ADMINISTRATION BA 436p. Retail Merchandising (G) (W) Comish.....	7:00-8:45	H
BA 442p. Principles of Salesmanship (G) (S) Comish.....	7:00-8:45	H
EDUCATION Ed 440. History of Education (G) (W) Jewell.....	6:30-9:00	C
Ed 460. Psychology of Childhood (G) (S) Killgallon.....	6:30-9:00	C
Ed 472p. Basic Course in School Organization (G) (F) Huffaker.....	6:30-9:00	H
Ed 485. Foundations of Curriculum (G) (S) Stevens.....	6:30-9:00	G
Ed 492. Social Education (G) (F) Stevens.....	6:30-9:00	G
Ed 512. Research Procedures in Education (W) Stevens.....	6:30-9:00	G
ENGINEERING CE 491p. Hydraulic Design (F) Tower.....	7:00-8:45	F
ENGLISH SD 325,6p. Public Speaking for Business and Professional Men and Women (F,W) Collier.....	7:00-8:45	B
SD 333. Conduct of Group Discussion (S) Collier.....	7:00-8:45	B

SATURDAY

SOCIOLOGY Soc 337p. Problems of Child Welfare (F) Bee.....	7:00-8:45	D
Soc 426p. Public Welfare (W) Bee.....	7:00-8:45	D
EDUCATION Ed 473p. Basic Course in School Administration (G) (F) Huffaker.....	9:15-11:45	H
Ed 561. Advanced Educational Psychology (S) Killgallon.....	9:15-11:45	C
Ed 586. Philosophy of Education (W) Jewell.....	9:15-11:45	C
ENGLISH Eng 507. Seminar: Evolution of Tragedy (F,W,S) Parsons.....	9:15-11:00	F
SOCIOLOGY Soc 501. Research (F,W) Bee.....	9:15-11:00	D
Soc 505. Reading and Conference (F,W) Bee.....	9:15-11:00	D

GRANT HIGH SCHOOL

2245 Northeast 36th Avenue

TUESDAY

Course, Term, Instructor	Time
ECONOMICS Ec 425p. Labor Problems (F) Gilstrap.....	4:30-6:15
EDUCATION Ed 316. Oregon School Law and System of Education (W) Perry.....	4:30-6:15
Ed 350p. Elementary School Curriculum (F) Long.....	4:30-6:15
Ed 361p. Preprimary Education (F) Fenn.....	4:30-6:15
Ed 435. Visual Aids to Instruction (F) Trenholme.....	4:30-6:15
Ed 445. Teaching of Art (F) Halvorsen.....	4:30-6:15
Ed 451p. Recent Trends in Language Arts (F) Zollinger.....	4:30-6:15
Ed 467p. Hygiene of the Child (G) (F) Martin, Dobson.....	4:30-6:15
Ed 476p. School Organization (F) Katterle.....	4:30-6:15
Ed 482p. Intercultural Education (G) (F) Anderson.....	4:30-6:15
Ed 487. Unit Construction (G) (F,W) Spalding.....	4:30-6:15
ENGLISH SD 377p. Radio Script Writing (F) Gilmore.....	4:30-6:15.....Benson
HISTORY Hst 377. Oregon History (F) Edwards.....	4:30-6:15
MUSIC Mus 284p. Primary Music (W) Ernst, Fenn.....	4:30-6:15
Mus 323. Choral Conducting (F) Ernst.....	4:30-6:15

MUSEUM ART SCHOOL

Portland Art Museum

Southwest Park Avenue at Madison Street

TUESDAY

Course, Term, Instructor	Time
ART AA 114p. Survey of Creative Arts (Studio) (F,W,S) Hoff.....	7:30-9:30
AA 290. Lower-Division Painting (F,W,S) Voorhies.....	7:30-9:30
AA 291. Lower-Division Drawing (F,W,S) Voorhies.....	7:30-9:30

WEDNESDAY

ART AA 115a,b,116. Survey of Creative Arts (F,W,S) Baldinger.....	7:30-9:30
AA 292. Lower-Division Composition (F,W,S) Givler.....	7:30-9:30
AA 293. Lower-Division Sculpture (F,W,S) Littman.....	7:30-9:30
AA 296. Lower-Division Applied Design (Ceramics) (F,W,S) Kennedy.....	7:30-9:30
AA 492. Upper-Division Composition (F,W,S) Givler.....	7:30-9:30
AA 493. Upper-Division Sculpture (F,W,S) Littman.....	7:30-9:30

THURSDAY

ART AA 114p. Survey of Creative Arts (Studio) (F,W,S) Hoff.....	7:30-9:30
AA 490. Upper-Division Painting (F,W,S) Voorhies.....	7:30-9:30
AA 496. Upper-Division Applied Design (Ceramics) (F,W,S) Kennedy.....	7:30-9:30

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