



GENERAL
EXTENSION
DIVISION

BULLETIN

Portland Extension Center Evening Classes

Portland, Oregon

CATALOG
I S S U E
1957-58

General Extension Division
BULLETIN

EUGENE SERIES NO. 43

MAY 1957

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**GENERAL EXTENSION
DIVISION**

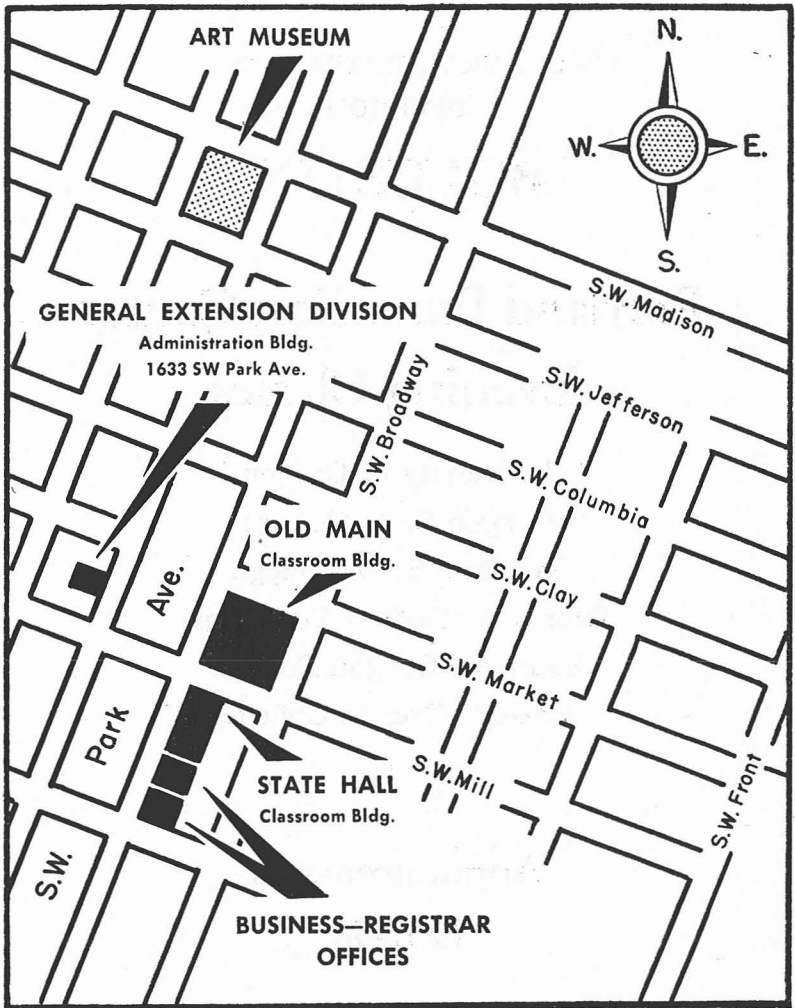
BULLETIN

**Portland Extension Center
Evening Classes**

**University of Oregon
Oregon State College
Portland State College
Oregon College of Education
Southern Oregon College
Eastern Oregon College**

**Announcements
1957-58**

**1633 S.W. Park Avenue
Portland 1, Oregon
Telephone CApitol 2-3201**



Portland Extension Center classes meet in either State Hall or Old Main unless otherwise indicated. Administration offices of the Center are located in the General Extension Administration building, 1633 S.W. Park Avenue. Business and Registrar offices are at 1724 and 1734 S.W. Park Avenue.

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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 survey of higher education in Oregon by the U. S. Office of Education, includes all the state-supported institutions of higher education. The several institutions are elements of 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, Portland State College at Portland, Oregon College of Education at Monmouth, Southern Oregon College at Ashland, and Eastern Oregon College at La Grande. The Medical and Dental Schools of the University of Oregon are located in Portland. The General Extension Division, representing all the institutions, has headquarters in Portland and offices in Eugene and Corvallis.

Each of the institutions provides the general studies fundamental to a well-rounded education. At the three colleges of education and Portland State College, students may complete major work in teacher education or general studies or enroll in a preprofessional program.

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

An interinstitutional booklet, *Your Education*, which outlines the curricula of the several institutions and contains other information, is available. For a copy, write to Division of Information, Board of Higher Education, P.O. Box 5175, Eugene, Oregon.

State Board of Higher Education*

	Term Expires
HERMAN OLIVER, John Day.....	1958
LEIF S. FINSETH, Dallas.....	1958
R. E. KLEINSORGE, Silverton.....	1959
WILLIAM E. WALSH, Coos Bay.....	1959
HENRY F. CABELL, Portland.....	1960
CHARLES R. HOLLOWAY, JR., Portland.....	1961
A. S. GRANT, Baker.....	1962
CHERYL S. MACNAUGHTON, Portland.....	1963
J. W. FORRESTER, JR., Pendleton.....	1963

Officers

R. E. KLEINSORGE.....	President
HENRY F. CABELL.....	Vice-President
LEIF S. FINSETH.....	Member, Executive Committee

JOHN R. RICHARDS, Ph.D., Chancellor
EARL M. PALLETT, Ph.D., Secretary of Board

Office of the State Board of Higher Education
Post Office Box 5175
Eugene, Oregon

* Board members are appointed to six-year terms by the Governor of Oregon with confirmation by the State Senate.

Portland Extension Center

September 1957

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Fall Quarter 1957

October 1957

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

- *Student Advising.....September 23-October 5
- Registration begins.....September 3
- Classes begin.....September 30-October 5
- Late fee begins.....October 7
- Last day to register or add a course.....October 12

November 1957

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

- Last day to drop a course without
responsibility for grades.....November 9
- Thanksgiving vacation.....November 28-December 1
- Final examinations.....December 16-21

December 1957

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- Term ends.....December 21

Winter Quarter 1958

January 1958

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- Registration begins.....December 16, (1957)
- Classes begin.....January 6-11
- Late fee begins.....January 13
- Last day to register or add a course.....January 18

February 1958

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

- * Student Advising: September 23-27, September 30-October 4
 9:00 a.m.-4:30 p. m., and
 6:30 p.m.-8:30 p.m., daily.
 September 28 and October 5
 9:00 a.m.-11:30 a.m.

Academic Calendar 1957-1958

Last day to drop a course without responsibility for grades.....February 15

Final examinations.....March 17-22

Term ends.....March 22

Spring Quarter 1958

Registration begins.....March 17

Classes begin.....March 31-April 5

Late fee begins.....April 7

Last day to register or add a course.....April 12

Last day to drop a course without responsibility for grades.....May 10

Memorial Day—Holiday.....May 30

Final examinations.....June 9-14

Term ends.....June 14

Summer Session 1958

Registration begins.....June 23

Classes begin.....June 24

Independence Day—Holiday.....July 4

Final examinations.....August 14-15

Term ends.....August 15

March 1958

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

April 1958

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

May 1958

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

June 1958

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

July 1958

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

August 1958

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Portland Extension Center

Portland Extension Center, an activity of Oregon's General Extension Division, extends the resources of the State System of Higher Education to students in the metropolitan area of Portland. This service is maintained in evening classes during the regular academic year and in day-time classes during Portland Summer Session. Information concerning the summer session is published in a separate bulletin.

Legislation which established Portland State College as the newest degree-granting institution within the state system has affected Portland Extension Center only in that six such institutions rather than five now are represented.

Location. Portland Extension Center and Portland State College share state system facilities at Southwest Park and Mill Streets. The Center's mailing address is 1633 S.W. Park Avenue, Portland 1. The telephone number is CApitol 2-3201. Administrative, business and registrar's offices are adjacent to the instructional buildings. See Map, p. 2.

Academic Program. Although it is not authorized to grant degrees, Portland Extension Center offers a diversified program of related graduate and undergraduate courses in many major fields of study which comprise the curricula at University of Oregon, Oregon State College, Portland State College, and the three regional colleges of education. Work taken at Portland Extension Center may be applied toward graduation from any of these degree-granting institutions, providing their residence and other individual requirements are satisfactorily met.

Service and Community Program. Portland Extension Center strives on request to arrange special courses dealing with professional or technical subjects. This usually is done in cooperation with industrial firms or with professional, labor or other groups and organizations. Courses concerned with avocational interests of the community also may be arranged.

Students who are not working toward a degree but who believe that one of the regularly scheduled courses will be of benefit to them are encouraged to register as "auditors." Other non-degree students may wish to undertake a "certificate" program. Audit status is described on page 9, the Certificate program on page 13.

Accreditation. Portland Extension Center's academic accreditation is co-extensive with that of the institutions of higher education in the system. Credits earned at the Center are accepted as residence credit toward a degree (subject to certain limitations indicated in the following paragraph) when transferred to University of Oregon, Oregon State College, Portland State College or any of the three regional colleges of education, provided that the credits have been earned as part of a planned degree program. If transferred to institutions not a part of the Oregon system, such credits are acceptable on the same basis as credits transferred from the campus institutions of the system.

Institutional Residence Requirement for Degrees. Those Portland Extension Center courses which are drawn from the various study areas and professional schools of the state system institutions may, *with the approval of the institution concerned*, be applied to complete all except 12 term hours of the total undergraduate degree program. Candidates for degrees in any institution must meet the requirements prevailing at the school of their choice at the time admission is granted.

General Admission Requirements

Portland Extension Center exists to serve those who desire to take the courses offered and who are able to profit by them. Except for veterans who enroll under any of the veterans' federal educational benefits, transcripts should not be submitted to Portland Extension Center. However, degree-granting institutions will require that a candidate for any degree file a transcript with them before they will grant admission.

Admission to Classes. In certain courses prerequisite work is specified in the course description. In any course the instructor may require evidence of ability to do the work or may require that certain prerequisite work has been completed.

Written permission of the instructor, as indicated by the instructor's signature on the registration card, is required for all late registrations except for auditors. (See Academic Calendar, page 6.) Credit students who delay their registration beyond the first week of classes will be subject to late fees and usually will find it impossible to secure the instructor's signature except during the second meeting of a class; many instructors come from other communities in Oregon and are present at the Center only for their classes.

Credit students who are not in attendance at either of the first two meetings of a class will not be admitted to the class, notwithstanding prior registration for the class. Only those students who are registered by the first meeting of the class and who are in attendance at the first meeting can be assured of admission.

Audit (Non-credit) Work

Students who wish to enroll in a particular course because it relates to their employment, their hobby, or to some other special interest, should consider the possibility of audit (non-credit) enrollment. Auditors are not required to complete written or reading assignments or to take examinations, and they do not receive grades. Auditors pay the same fees, including late fees, as do credit students, and they register in the same way. Changes from "audit" to "credit" enrollment, and vice versa, are possible only until the last day for program changes, as indicated in the schedule for the term involved.

Undergraduate Work

Students who enroll at Portland Extension Center for undergraduate courses which they expect to include in a degree program *must* inform themselves of the requirements of the institution and major department from which the degree is sought. Information concerning admission, advanced standing, transfer of credits, and requirements for graduation may be obtained from the registrars of campus institutions within the state system.*

Students who are beginning a degree program by attending Portland Extension Center classes should note that degree-granting institutions usually specify required patterns of lower-division (freshman and sophomore) work. These frequently are called "group requirements," and, generally, are in a pattern which is common for any student regardless of his major objective. In addition, such institutions also may specify lower-division courses in a student's major field, although

* The Portland State College residence requirement of 45 term hours of the last 60 presented for a degree can be satisfied by completion of 33 term hours in extension centers and in one summer session of 12 or more term hours which are selected from those courses taught during the Portland Summer Session by members of the faculty of Portland State College. Portland State College students should consult their Portland State College advisers.

this work is usually concentrated in the last two years. Thus, all degree candidates who enroll for classes at Portland Extension Center should design their programs to meet two specific sets of academic requirements: (1) the general requirements common for all students in the selected institution, and (2) the departmental, divisional, or professional school requirements pertaining to the appropriate major fields. All students who intend to transfer to institutions within the Oregon State System of Higher Education must satisfy admission requirements prevailing for the school of their choice at the time such admission is granted.

Advisers. Advisers are available at Portland Extension Center to assist students who wish to embark on a program of planned work.

Credit Hour Load. Undergraduate students at Portland Extension Center normally may enroll for not more than six term hours if employed full time or if attending the Center for the first time. Other undergraduates who are qualified and have adequate study time available, and who are unable to enroll at a campus institution, may petition the registrar for permission to enroll for more than six term hours.

Graduate Work

Certain master's degrees granted by various institutions within the Oregon State System of Higher Education and the work toward these degrees which may be completed at Portland Extension Center or at Portland Summer Session are shown below:

Master of Education. This degree may be taken either at the University of Oregon or at Oregon State College. At either institution twelve hours of graduate credit must be earned in residence. The remainder may be completed in Portland.

The degree is regarded as a professional teaching degree and not necessarily as a research degree; however, the University of Oregon requires a thesis or field study of candidates whose area of specialization is one of the following: (1) Administration; (2) Psychology, Measurement and Evaluation. Oregon State College requires neither a thesis nor a field study of candidates under Options "C" or "B," those available in Portland.

Both Oregon institutions plan a well-integrated program for each individual candidate. This is designed to improve his educational competence as a teacher, supervisor, or administrator. Each program embraces: (1) a common core of required courses; (2) an area of concentration which provides a complex of courses organized to meet the special interests and needs of the students. For the University of Oregon both the qualifying and final examinations are written. Oregon State College requires a written and an oral final examination, but no qualifying examination. Graduate work for the degree of Master of Education may be pursued with specialization in either the elementary or secondary fields.

Master of Science in Education (elementary) from Oregon regional colleges of education. A minimum of twelve hours of graduate work must be completed in residence at the degree-granting institution; the remainder may be completed in Portland. Requirements for the degree include a core of eighteen hours in professional courses and nine hours in general courses. The thesis is optional with each student but it is recommended for those planning further graduate work. The qualifying examination is written and the final examination may be both written and oral.

Master of Arts in General Studies. This is a research degree. It is open to individuals who possess a research interest and a broad academic background, usually in three disciplines, which makes them eligible for graduate work wherein

the offerings of several major departments are correlated. A thesis is required. Before a candidate's course work can be planned he must present and justify a thesis topic which involves a research project embracing several major departments. An acceptable thesis in *General Studies* cannot be typical of work normally presented to any single department.

Under favorable circumstances all work toward this degree from Oregon State College may be completed in Portland, but University of Oregon requires that candidates earn at least twelve hours in residence.

Master of Arts (Departmental), Master of Science, Master of Science in General Studies. Programs for these degrees must be arranged with the candidate's major department at the degree-granting school selected. On approval by the major department a maximum of fifteen hours of graduate work may be completed in Portland.

Special Programs for Graduate Students

Program in Public Administration. The program in public administration may lead to a *Master of Arts degree in General Studies* at the University of Oregon (see above). Emphasis of this program is on regional studies, administration, management, and public policies. Interested students should confer with the program director.

Program in Nursery School Education. An option under the *Master of Arts in General Studies* degree with Oregon State College is available to qualified persons who are at present working in a nursery school. A minimum of nine quarter hours from the first 24 of graduate work must be completed in residence at Oregon State College.

Program for Registered Nurses. A program leading to the *Master of Arts in General Studies* degree, designed specifically to meet the requirements of registered nurses, is offered in cooperation with the Department of Nursing Education, University of Oregon Medical School, and with the Graduate School, Oregon State College.

Professional Degrees in Engineering. Those who hold a baccalaureate or master's degree from Oregon State College may substitute graduate credit for a maximum of three of the five years of professional practice required for the degree of professional engineer. Graduate study, extension or otherwise, will be considered at the approximate rate of 12 credit hours of professional practice.

Those who hold a baccalaureate degree or master's degree from other colleges or universities also are eligible to obtain the degree of professional engineer from Oregon State College, by fulfilling the same requirements as for those above except that at least 12 credit hours of graduate work must be completed in residence on the Oregon State College campus.

Advisers. Authorized advisers for any of the master's degrees in education and for the *Master of Arts in General Studies* degree will be available at Portland Extension Center to assist students in planning programs and in establishing candidacy for the degrees. Students should note that a mere accumulation of graduate credit does not establish candidacy for any degree.

Admission. Graduate students enrolling in the Portland Extension Center who wish to apply their Oregon credits toward advanced degrees at one of the institutions within the Oregon State System of Higher Education must make application for admission to the graduate school selected and take the qualifying examination* at the earliest opportunity.

Time Limit. Oregon institutions expect that all work for the master's degree, including work for which credit is transferred, thesis, and final examination, will be completed within a period of seven years.

Maximum Load. Six term hours of graduate credit, except where thesis credit is involved, is the maximum which a student who is employed may earn in any regular session at Portland Extension Center, unless the appropriate dean in the student's degree-granting institution approves an excess number of hours of credit in writing and in advance of registration.

Special Programs

Teacher Training

Teachers and administrators seeking to fulfill requirements for the various certificates, including administrator's certificates and certificates to teach handicapped or exceptional children, should refer to *Oregon Rules and Regulations Governing the Certification of Teachers*, an annual publication of the Superintendent of Public Instruction, Salem, Oregon.

Elementary and Secondary Teacher Training. Portland Extension Center offers required courses for regular or emergency elementary certification and for secondary certification, except for supervised teaching. Portland Summer Session and the Portland State College regular session, however, offer supervised teaching. A limited number of students may meet supervised teaching requirements through these facilities.

Training in Pre-School Education. Although Portland Extension Center does not offer a complete program in pre-school education, certain courses (and an option under the *Master of Arts in General Studies* at Oregon State College) are available which are applicable to the nursery or kindergarten field. Interested students should consult an elementary education adviser at the Center.

Training for Teaching Exceptional Children. Portland Extension Center schedules a selection of courses so that students may strengthen their preparation for teaching in the special areas of reading, speech, and the mentally handicapped. Students who have the necessary prerequisites may complete certification requirements in these areas by enrolling in both Portland Extension Center, and Portland Summer Session.

Administrators Certificates. Portland Extension Center classes are scheduled to permit fulfillment of course requirements for various administrators certificates.

Cooperative and Certificate Programs

"Packaged" Training Programs. Business and industrial concerns, and trade, labor, and professional organizations may supplement their own educa-

* Qualifying examinations will be administered at times and places to be announced early in each term.

tional and training programs by arranging for special sections of credit courses or by working with the Center on non-credit seminars, short-courses, workshops and other especially designed activities. Content and financial arrangements for programs of this kind vary with circumstances. Fees can be based on actual cost and may be billed to the sponsoring agency.

Certificate Program. The Certificate Program is designed for those who do not expect degrees but who can benefit from a specific concentration of courses. Students who complete the Center's approved multi-course program with emphasis on a variety of business and industrial areas, will be granted certificates of accomplishment.

Cooperative Speech and Hearing Rehabilitation Center. Portland Extension Center cooperates with the Crippled Children's Division of the University of Oregon Medical School and the Division of Special Education of the State Department of Education for the extension of facilities to prepare teachers to teach speech-handicapped children, and for the expansion of services to children with speech defects. This facility is housed at the Crippled Children's Division of the University of Oregon Medical School.

Museum Art School. A number of courses are offered by Portland Extension Center in cooperation with the Museum Art School of the Portland Art Association. The courses are scheduled at the Museum Art School, and the enrollment is limited by the facilities of the studios. Registration must be initiated at the Museum Art School, S.W. Park at Madison Street.

In-Service Training. A number of courses are offered as part of the in-service training program of public school systems in and near Portland. These classes are open to all qualified students. The courses carry college or university credit, and the fees are the same as for the regular evening courses.

In-service and other courses scheduled for afternoon hours outside Portland Extension Center building are limited to 2 term hours of credit. Those scheduled for evenings may be offered for 3 term hours of credit.

In order to provide qualified instructors, Portland Extension Center must receive requests for in-service and other courses for public schools at least 60 days in advance of the expected beginning date.

Grading System

A Grade is a mark used to measure quality of a student's work in an academic course: *A*, exceptional accomplishment; *B*, superior; *C*, average; *D*, inferior; *F*, failure; *Inc*, incomplete; *W*, withdrawn. When a course will not be completed for reasons presented in advance by the student and accepted by the instructor, a report of *Inc* may be made and additional time granted. *A student who fails to appear for the final examination or who discontinues attendance in a course without officially withdrawing through the Registrar's Office within the time designated on the academic calendar for the term receives a grade of F in the course.*

A limited number of courses are designated "non-credit" in the course descriptions. Students in non-credit courses are rated NC in the term grade reports. Non-credit courses are not considered in computing the grade-point average.

Registration Procedures and Regulations

Students who have not enrolled during the early registration period, or by mail, may register for Portland Extension Center classes any evening during the

first week of each term in accordance with the dates shown in the *Academic Calendar* (see page 6). During registration week (the first week of classes) students will receive registration materials and instructions in the main hallways of State Hall at Park and Mill Streets from 5:15 to 8:30 p.m., Monday through Friday. At other times (during regular office hours) registration is in the Registrar's office at 1734 S.W. Park Avenue, just south of State Hall.

Late registrations are accepted only during the second week of the term and only if (1) the student has written permission to enter the class as shown by the instructor's signature on the registration card, and (2) the student completes his registration in person. *Late registrations by mail will not be accepted.*

In order to be assured of admission to a class, students must be present at the first meeting and must register during the first week of each term; otherwise written approval must be obtained from the instructor for either subsequent admission or delayed registration. Instructors are present at the Center only for their classes; many come from other cities and their signatures for approval of admission may not be obtainable between class meetings. In all cases attendance and not prior registration is the criterion for admission to a class, but attendance without registration does not provide a basis for waiving of late fees. This applies to audit registrations, as well, although registrations for audit or for non-credit courses may be completed at any time.

Early Registration, Registration by Mail. Students are urged to avail themselves of the *early* registration period of two weeks or more which precedes the first week of each term. For the convenience of those who wish to register by mail, a packet of registration materials and instructions will be sent upon request. Address the Registrar, Portland Extension Center, 1633 S.W. Park Avenue, Portland 1, Oregon, or telephone CApitol 2-3201. *Late registrations by mail will not be accepted.*

Procedure for Graduate Students. Enrollment for graduate credit is in general identical with enrollment for undergraduate credit. However, *students electing graduate credit in a 400 (G) or (g) course* (see course numbering system, page 18) *must so indicate at the time of registration for the course*; otherwise graduate credit cannot be granted. Graduate credit is not retroactively granted.

Procedure for Veterans. Students who wish to avail themselves of educational benefits under the terms of PL 550 ("Korean" GI Bill) should present their discharge papers and establish their eligibility through the Veteran's Administration Regional Office, 208 S.W. 5th Avenue, Portland 4, Oregon. The process should be initiated as early as possible since two months may elapse before authorization is granted. Payments are made to students from the date of enrollment or from the date of authorization, whichever is later.

Veteran students under PL 550 who enroll in Portland Summer Session or in any other institution during summer sessions of 1957 must complete a transfer to Portland Extension Center in order to receive subsistence benefits from the Veteran's Administration. To insure payment beginning with Fall term, 1957-58, this transfer should be arranged with the Veteran's Coordinator before the end of the preceding summer session.

The State of Oregon also has legislation affording educational assistance to veterans; information may be obtained from the State Department of Veterans Affairs, State Office Building, 1400 S.W. 5th Avenue, Portland, Oregon.

Questions of veteran eligibility and entitlement should be directed to the federal or state officials at the addresses given above. Questions concerning Portland Extension Center procedures for veterans should be addressed to Veteran's Coordinator, Business Office (CApitol 2-3201).

Portland Extension Center Fees

Fee Schedule

Regular registration and course fees, tuition not included, applicable to undergraduates, graduates and auditors :

<i>Item</i>	<i>Per term</i>
Per credit hour rate.....	\$ 9.00
Minimum charge for 1 or 2 credit hours for any student, or for any class.....	18.00
Charge for students enrolled for 7 credit hours or more.....	71.00
Laboratory service, or course fees are charged in some cases, as indicated in course descriptions.	
Combined enrollment in Portland Extension Center and Portland State College: Students carrying 7 credit hours or more in Portland Extension Center, Portland State College, or any combination are considered to be full-time students and pay a total flat fee of \$71.00.	

Special Fees and Charges

Late registration fee (includes auditors), per week (\$3.00 during second week of each term; additional \$1.00 for each week thereafter)	\$3.00-1.00
If institutional charges are met by a check which is returned because of any irregularity for which the student is responsible (NSF, illegible signature, improper bank account number, etc. , a fine of \$1.00 per business day will be charged. (Maximum penalty, \$5.00).....	\$ 1.00
Change of program fee (assessable after last day to add courses) \$	1.00
Reinstatement fee	\$ 2.00
Transcript fee (charge for first copy at any one time is \$1.00 and charge for each additional copy furnished simultaneously is 50c).....	\$.50-1.00
Graduate qualifying examination fee.....	\$1.00-15.00
Staff fee, per credit hour.....	\$ 3.00
Available to academic staff with .50 FTE or more, and to full-time non-academic staff, maximum of 4 credit hours.	
No deposit for breakage or loss, etc. <i>(Library cards are issued upon presentation to the library of the fee receipt. Cards from a previous term must be validated for succeeding terms.)</i>	

Fee Refunds

Students who withdraw and who have complied with regulations governing withdrawals are entitled to certain refunds of fees paid, depending on the time of withdrawal. The refund schedule has been established by the State Board of Higher Education and is on file in the business office. All refunds are subject to the following regulations :

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

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

Library Fines and Charges

The following regulations govern library fines and charges:

(1) A fine of five cents per day is charged for all overdue books other than reserve and "Reading Room Use Only" books.

(2) A fine of twenty-five cents per day for the "Reading Room Use Only" books taken from building.

(3) The following fines will be charged for violation of reserve book rules:

(a) For overdue books, a regular fine of twenty-five cents for the first hour and five cents for each succeeding hour, or fraction thereof, until the book is returned or reported lost. A maximum charge of one dollar per hour may be made in cases of flagrant violation of the rules; (b) For failure to return books to proper department desk, when building is open, a fine of twenty-five cents.

(4) Books needed for use in library are subject to recall at any time. A maximum fine of one dollar per day may be imposed for failure to return promptly.

(5) A service charge of ten cents is added to all fines reported to the business office for collection.

(6) Borrowers losing books will be charged the replacement cost of the book plus the amount of fine incurred up to the time the book is reported missing. In addition a charge of one dollar will be made to cover the cost of cataloging and processing the replacement copy.

(7) When a lost book for which the borrower has been billed is returned before replacement has been ordered, a refund not exceeding the replacement cost plus the cataloging and processing charge of one dollar may be made at the discretion of the librarian. In cases where a replacement has been ordered, refunds to the borrower may be made at the discretion of the librarian.

General Information and Definitions

Library, Library Cards. The library, located on the second floor of Old Main building, is open from 8 a.m. to 9 p.m. Mondays through Fridays, and on Saturdays from 8 a.m. to 12 noon. The library card is issued upon presentation of the student's tuition receipt. This receipt should therefore be preserved, even when payment is by check. Students who hold cards from a previous term must have them validated for the succeeding term.

Cooperative Bookstore. Texts and supplies required for Portland Extension Center instructors will be made known at the first meeting of all classes each term. They may be purchased from the cooperative bookstore located in the basement of Old Main building.

Cafeteria. The cafeteria, with a snack and coffee bar, is located in the basement of Old Main building. Evening meals are served Mondays through Fridays. The snack bar is open until 9 p.m.

Special Events. Portland Extension Center students are eligible to attend all special events, whether sponsored by Portland State College or by the Center. Lectures, concerts, plays, forums, etc. are scheduled regularly, many at no admission charge.

A YEAR SEQUENCE consists of three closely articulated courses extending through three terms of the academic year.

A TERM HOUR* is synonymous with a "quarter hour" and a "credit hour." It is the unit by which a student's progress is measured and recorded. Usually, it represents a minimum of three clock hours of class time each week for one term. The number of lecture, recitation, laboratory, or other periods per week for any course are listed in course descriptions in this bulletin.

Non-Credit Courses. A limited number of courses, designated "non-credit" in the course descriptions, are offered from time to time. Completion of such courses does not reduce the total of hours required in degree programs. Students in non-credit courses are rated NC in the term grade reports. Non-credit courses are not considered in computing the grade-point average.

A GRADE POINT is a numerical expression of the qualitative value of a student's work. (See grading system, page 13.) Grade points are calculated on the basis of 4 points for each term hour of *A* grade; 3 for *B*; 2 for *C*; 1 for *D*, and 0 for *F*. Marks of *Inc* and *W* are disregarded in calculations of points. The grade point average (GPA) is determined by dividing the total grade points earned by the total number of hours for which the student has been registered.

Course Numbering System. Courses are numbered in accordance with the course numbering system of the Oregon State System of Higher Education (see page 18).

* Term hours ("quarter hours") may be converted to semester hours by multiplying the number of term hours by $\frac{2}{3}$. Semester hours may be converted to term hours by multiplying the number of semester hours by $1\frac{1}{2}$.

1957-58

Portland Extension Center Program

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. Graduate courses are numbered 500 to 599. A large (G) following the title of a 400 course indicates that the course may be taken for either major or minor graduate credit. A small (g) following the title of a 400 course indicates that the course is approved for graduate minor credit only.

Institutional Source of Courses. For the convenience of students using this catalog the letters *C E P S*, and *U* appear parenthetically in the left margin before course descriptions. The letter *C* refers to the regional Colleges of Education, *E* to General Extension Division, *P* to Portland State College, *S* to Oregon State College, and *U* to University of Oregon. These indicate that the accompanying course appears in the catalog of the institution designated and is a regular offering of that institution.

Class Schedule. A class schedule detailing the course meeting times and places and the instructors for each class is issued shortly before each term. Classes meet one evening a week, at the following hours, unless otherwise noted in the class schedule: Two-hour classes, 7 to 8:45 p.m.; three-hour classes, 6:45 to 9:25 p.m., and four-hour classes two nights a week, from 7 to 8:45 p.m. Deviations from this plan will be noted in the class schedule for each term.

Portland Extension Center reserves the right to change at any time the meeting hour or day of any listed course, or to cancel or discontinue any listed course for lack of sufficient enrollment or for other reasons.

Description of Courses

Descriptions which accompany the following courses are designed to show their purpose and scope. Degree students should understand that they may not register in certain courses until a more basic course in the same field has been completed. This more basic course, or prerequisite, usually is indicated in the description of the more advanced course. Mature, non-degree students may register in advanced courses upon securing the consent of the instructor.

Anthropology

Instructor: FRANTZ.

Lower-Division Courses

(P) Anth 207, 208, 209. **Introduction to Cultural Anthropology.** 3 hours each term.

The meaning of culture; its significance for human beings; its diverse forms and degree of elaboration among different groups of men; its process of growth and expansion.

Upper-Division Courses

(U) Anth 314, 315, 316. **Peoples of the World.** 3 hours each term.

Historical treatment of world culture areas, exclusive of Europe. Regional variations in culture, their backgrounds, and their significance in contemporary world affairs. Materials drawn from Africa, Asia, Oceania, and the Americas. Prerequisite to area courses. Prerequisite: upper-division standing.

Art

Professor: REYNOLDS.

Assistant Professors: HEIDEL, WASSON.

Instructors: BUNCE, GIVLER, GRIMM, IZQUIERDO, KENNEDY, LITTMAN, LYNCH, PRASCH, RUSSO, SCHWARZ.

Museum Art School

The following classes are offered in cooperation with the Museum Art School. The registration fee is \$16.00 per term for each class, plus a special course fee as indicated for some of the courses. (However, in no case will students registering for work in the Museum Art School and Portland State College or Portland Extension Center pay more than \$65.00.) Students register at the Museum Art School, S.W. Park avenue at Madison street, where the classes are held.

Lower-Division Courses

(U) AA 201a, 201b, 201c. **Survey of the Visual Arts.** 1 hour any term.

For beginners and laymen. A survey of many aspects of the arts, with discussion and practice in drawing, composition, painting, and sculpture, for the purpose of increasing the student's powers of observation and expression and leading to a better understanding of the arts, 7:30-9:30. Section I: Tuesday. Section II: Thursday. Course fee, \$3.00 in addition to registration fee. Izquierdo.

- (U) *AA 255. **Ceramics.** 1 hour any term.
Creative approach to ceramics, including knowledge of various clays, building forms by hand, and experience with glazes. Section I: Wednesday. Section II: Thursday. Course fee \$3.00 in addition to registration fee. 7:30-9:30. Kennedy.
- (U) *AA 290. **Painting.** 1 hour any term.
Problems of the individual students; instruction in the use of a variety of mediums. 7:30-9:30. Section I: Tuesday. Russo. Section II: Wednesday. Staff. Section III: Thursday. Bunce.
- (U) *AA 291. **Drawing.** 1 hour any term.
Life drawing; emphasis on drawing from live models. 7:30-9:30. Section I: Wednesday. Izquierdo. Section II: Thursday. Russo.
- (U) *AA 293. **Elementary Sculpture.** 1 hour any term.
Experience with modeling from the figure and from imagination and practice in casting. Progressive series of problems in sculpture. 7:30-9:30. Section I: Tuesday. Section II: Thursday. Course fee, \$3.00 in addition to registration fee. Littman.

Upper-Division Courses

- (U) AA 390. **Painting.** 1 hour fall term.
Problems in portrait, figure, landscape, and still life, in all media. Monday, 7:30-9:30. Prerequisite: 12 term hours in AA 290 or consent of instructor. Bunce.
- (U) AA 401. **Special Studies.** 1 hour any term.
Lettering and calligraphy. Tuesday, 7:30-9:30. Reynolds.
- (U) AA 480. **Graphic Arts.** 1 hour any term.
Design and technical problems in the graphic arts fields. Lithography, etching, woodblock, and silk screen printing. Wednesday, 7:30-9:30. Course fee \$2.00 in addition to registration fee. Givler.
- (E) A 0313. **Commercial Design.** No credit, any term.
Commercial design including posters, cartoons, and book jackets. Prerequisite: previous training. Wednesday, 7:30-9:30. Lynch.

Art and Art Education

Classes at Portland Extension Center

Lower-Division Courses

- (S) AA 178. **House Planning and Architectural Drawing.** 3 hours fall.
Appreciation and criticism of domestic architecture. Small-house planning and drawing with reference to the needs of students in agriculture, education, engineering, forestry, and home economics. Wasson.
- (P) AA 201, 202, 203. **Survey of Visual Arts.** 3 hours each term.
Cultivation of understanding and intelligent enjoyment of the visual arts through a study of historical and contemporary works; consideration of motives, mediums, and forms. Heidel, Prasch, Schwarz.
- (P) AA 223. **Elements of Interiors.** 2 hours winter.
A studio course. Introduction to scope, aim, and technique of interior design intended to give understanding of professional field. Open to nonmajor students with consent of instructor. Schwarz.

* Students who have met the prerequisites of 15 hours in either AA 255, 290, 291, and 293 may petition to be allowed to take these courses for upper-division credit.

- (P) AA 257. **Jewelry and Metalsmithing.** 1 hour winter.
Introduction to the handworking of nonferrous metals—copper, brass, pewter, silver, gold. Development of design for metal objects. Enameling on metal; centrifugal casting; lapidary work. Grimm.
- (P) AA 291. **Drawing.** 1-2 hours fall.
Training in observation and selection of significant elements. Registration permitted any term, but it is desirable that the work be started in the fall. Six term hours required for upper-division standing. Präsch.
- (P) AA 298. **Sketching.** 1 hour spring.
Sketching from costumed models, to develop ability to observe clearly and record accurately. Offered especially for nonmajor students who have had no previous training in sketching or drawing. Präsch.

Upper-Division Courses

- (P) AA 311, 312, 313. **Creative Arts and Crafts for the Classroom Teacher.** 3 hours each term.
Art activities for the classroom teacher. Basic tools and materials. Planning the art program to meet the needs of the child. Art in the school curriculum. Art experiences in relation to child growth and development. Lectures and laboratory work. Prerequisites for AA 313 are AA 311 and 312.
- (U) AA 363. **Introduction to the History of Art.** 3 hours fall.
An historical survey of the visual arts from prehistoric to modern times. Selected works of painting, sculpture, architecture, and other arts are studied in relation to the cultures producing them. Designed for nonmajor students, as well as for majors in art history.
- (U) ArE 414, 415, 416. **Art Education in the Senior High School.** (G) 3 hours each term.
Study of art education in the secondary school, through laboratory work and individual research. Practice-teaching problems examined and studied as a group experience. Evaluation of current thinking in the field and of its application to the classroom situation. Prerequisite: ArE 314, 315, 316 or consent of instructor.

See also: Courses Offered Outside Portland Center

Home Economics
Landscape Architecture

Biology

Professors: MACNAB, MACY.

Instructor: EVONUK.

Lower-Division Courses

- (P) Bio 211, 212, 213. **General Zoology.** 3 hours each term.
For biology and zoology majors and premedical, pre dental, pre nursing, pre-pharmacy, preveterinarian, physical education, psychology, fish and game management, and fisheries students. Two lectures; 2 two-hour laboratory periods. Macnab.

Upper-Division Courses

- (U) Bi 371, 372. **Human Anatomy.** 3 hours fall and winter.
Gross anatomy; the skeletal and muscular structures; the circulatory, respiratory, digestive, and neural systems and their functioning in physical activities. Prerequisite: junior standing, one year of biology. Evonuk.

Business Administration

Professors: BALLAINE, BOYD, LEMASTER, LOMAX.

Associate Professors: DAVIS, MATTHIES, RICHINS, SEATON, ZIEBARTH.
BARTH.

Assistant Professors: BIGGS, DODGE, FORD, GODDARD, JOHNSON, MOSS.

Instructors: ALLAN, PATTULLO, TEETER, WLESNER, WILLIAMS.

Accounting

Lower-Division and Non-Credit Courses

- (E) BA 031. **Managerial Accounting.** Non-credit (3) winter.

A non-technical course designed for engineers, production managers, sales executives, and others who use accounting data in making business decisions. Ways of controlling costs, funds, and individual performance, and methods of analyzing changing conditions and planning for new activities will be emphasized. An introductory course in accounting is desirable. Moss.

- (P) BA 111, 112, 113. **Constructive Accounting.** 3 hours each term.

Techniques of account construction; preparation of financial statements. Application of accounting principles to practical business problems. Required of majors, prerequisite to advanced work in business. Each part is available any term.

Upper-Division Courses

- (U) BA 312. **Principles of Cost Accounting.** 3 hours fall or spring.

Basic principles of cost accounting; departmentalization; expense allocation; designed primarily for students interested in general accounting. Prerequisite: BA 111, 112, 113. Boyd, Wiesner.

- (U) BA 313. **Analysis of Financial Statements.** 3 hours winter.

Managerial accounting for effective management and control of industrial and trading concerns. Preparation, analysis, and interpretation of balance sheets and operating reports. Prerequisite: BA 111, 112, 113. Wiesner.

- (U) BA 479, 480. **Income-Tax Procedures.** 3 hours fall and winter.

Income-tax laws of the United States and the State of Oregon. Facts involved in making up the various returns; use of the various sources of information. Prerequisite: senior standing in BA 483, 484, 485, or equivalent. Pattullo.

- (U) BA 483, 484, 485. **Accounting Theory and Practice.** (G) 3 hours each term.

The theory of accounting records and statements; statements of affairs, depreciation, analysis of profit-and-loss accounts, receiverships, balance-sheet construction and problems. Required of students majoring in accounting. Matthies, Teeter.

FALL: BA 483

WINTER: BA 484

SPRING: BA 483, 485

- (U) BA 488. **Cost Analysis and Control.** (G) 3 hours winter.

Standard costs, simple and flexible budgets, analysis and control of distribution costs, gross-profit analysis, break-even analysis, profit-volume relationships, and differential cost analysis. Designed for students in the field of management as well as accounting. Prerequisite: BA 312. Boyd.

- (U) BA 489, 490. **Advanced Accounting Problems.** (G) 3 hours fall and winter.

Application of the technical phases of accountancy. Professional training in practical accounting theory and auditing. Prerequisite: BA 483, 484, 485. Required of accounting majors. Williams.

- (U) BA 491. **Advanced Accounting Theory.** (G) 3 hours spring.
Continuation of BA 489, 490. Williams.
- (U) BA 492, 493, 494. **Auditing.** (G) 3 hours each term.
The auditing standards and procedures currently followed by public accountants; the working papers developed in connection with an audit; the various types of audit reports. Prerequisite: BA 483, 484, 485. Boyd.
- (U) BA 496. **Internal Accounting (Budgetary Control).** (G) 3 hours spring.
Accounting systems, budgetary control, and the comptrollership functions in modern business. Designed for students who are planning to enter the field of private accounting. Prerequisite: BA 483, 484, 485, or consent of instructor. Boyd.

General Business Courses

Lower-Division Courses

- (S) BA 111. **Introduction to Business and Industry.** 3 hours fall.
Survey of business organization, operation and management intended to orient the student in the field of business and to help him determine a field of major concentration. Seaton.
- (P) (U) BA 221. **Elements of Organization and Production.** 3 hours fall.
Principles of management as applied to commercial and industrial concerns. Ziebarth.
- (P) (U) BA 222. **Elements of Finance.** 3 hours spring.
The financial problems of corporations. Organization of corporation; how they obtain long-term funds; management of working capital; distribution of securities. Required of all majors. Prerequisite: BA 111, 112, 113.
- (P) (U) BA 223. **Elements of Marketing.** 3 hours winter.
Methods, policies, and problems. Private and cooperative channels, auctions, exchanges, middlemen; demand creation, assembly, standardization, packaging, financing, risk taking, distribution. Required of business administration majors.

Upper-Division Courses

- (U) BA 323. **Office Organization and Management.** 2 hours spring.
Elements of office organization, office management, office records and systems. Special study of the office manager as an executive, and his qualifications. Prerequisite: consent of instructor.
- (U) BA 332. **Business Statistics.** 3 hours fall.
Emphasis on appreciation and understanding of statistical methods. Charts and tables; sampling; averages, time-series analysis; index numbers; a brief introduction to the concept of linear correlation. Ballaine.
- (U) BA 341. **Principles of Advertising.** 3 hours winter.
Advertising as a factor in the distribution process; the advertising agency; the "campaign"; the function of research and testing; the selection of media—newspapers, magazines, broadcasting, outdoor advertising, direct mail.
- (U) BA 411. **Business Public Relations.** 3 hours fall.
Public relations of business firms; tools and techniques for determining public reactions; methods of securing good public relations. Open to non-majors with consent of instructor. Davis.
- (S) BA 411. **Business Law.** 3 hours fall.
Basic rules of law for conduct of business generally. Creates an awareness of proper legal practices, including the desirability of professional supervision. Primary emphasis on requirements of formation, performance, and methods of discharge of contracts. Allan.

(S) BA 412. **Business Law.** 3 hours winter.

Relationship between agents, persons for whom agents act, and persons with whom agents deal; legal relationships involved in partnership and corporate forms of business; law of promissory notes, bills of exchange, and checks. Prerequisite: BA 411 or consent of instructor. Biggs.

(U) BA 412. **Personnel Management.** (G) 3 hours fall.

The place and significance of personnel management in the modern business organizations; personnel policies and practices conducive to good relations with employees. Personnel problems of small organizations. Prerequisite: BA 222, 223, or consent of instructor. Ford.

(S) BA 413. **Business Law.** 3 hours spring.

Primary features of real estate and land law, including deeds, wills, mortgages, titles, and landlord-tenant relationships; personal property law; nature of sales agreements and law of security arrangements; proper legal procedures, including preservation of evidence. LeMaster.

(U) BA 413. **Wage and Salary Administration.** (G) 3 hours winter.

Systematic wage and salary program as an essential part of an efficient personnel program. Basic methods for determining individual wage rates and wage structures; job evaluation. Prerequisite: BA 412. Ford.

(U) BA 414. **Problems in Personnel Management.** (G) 3 hours spring.

Specific personnel problems at various organization levels. Each student proposes solutions, and group solutions are attempted through class discussion, in the light of various viewpoints and sound personnel principles. Prerequisite: BA 411, 412, and consent of instructor. Ford.

(U) BA 415. **Regional Studies in Business.** (G) 3 hours winter.

A study of the regional resources of the Pacific Northwest, as they are related to industry and commerce. Lomax.

(U) BA 416, 417, 418. **Business Law.** (G) 3 hours each term.

Application of fundamental legal principles to typical business situations; illustrated by selected cases. The following topics are considered: contracts, bankruptcy, insurance, suretyship, sales, agency, personal property, real property, business organizations, partnerships, corporations, associations, trusts, joint stock companies, negotiable instruments.

(U) BA 425. **Real-Estate Fundamentals.** (G) 3 hours fall.

Problems relating to the purchase, transfer, lease, and financing of land and buildings; home building, site selection, principles of house-and-lot evaluation. Open to non-majors. Johnson.

(U) BA 426. **Real-Estate Practice.** (G) 3 hours winter.

Application of the principles of land and building management from the standpoint of the broker and owner-operator; real-estate practice land institutions. Prerequisite: BA 425.

(U) BA 427. **Real-Estate Appraising.** (G) 3 hours spring.

Specific factors affecting the value of land and buildings; the effect of city structure, zoning and city planning; demonstrations of various techniques in appraising; preparation of an appraisal report. Prerequisite: BA 425. Johnson.

(U) BA 428. **Manufacturing.** (G) 3 hours fall.

Manufacturing industries of the United States; their raw materials, processes, and current technological and marketing development. Prerequisite: BA 222, 223. Lomax.

- (U) **BA 429. Production Management.** (G) 3 hours winter.
Nature and scope of production processes; economics, technological, regional, and managerial organization of production; plant location; design and layout; control of plant investment; working capital investment and labor costs; planning production operations. Prerequisite: BA 111, 112, 113; BA 222, 223.
- (U) **BA 434. Problems in Distribution.** (G) 3 hours winter.
Critical study of marketing problems. Strength and weakness of various retail marketing channels; merits and limitations of wholesale marketing channels; extent and adaptability of direct marketing. Prerequisite: BA 223. Richins.
- (U) **BA 435. Sales Management.** (G) 3 hours fall.
Structure of sales organizations; sales policies; control of sales operations; sales planning; market analysis; coordination of production and sales; selection, training, and management of salesmen. Prerequisite: BA 223 or consent of instructor. Richins.
- (U) **BA 436. Retail Store Management.** (G) 3 hours fall.
Retail policies and problems. Stock-control systems, buying, methods of sales promotion, plant operation, personnel, credit, turnover, pricing, expense, classification and distribution. Prerequisite: BA 223. Dodge.
- (U) **BA 437. Credits and Collections.** (G) 3 hours winter.
The credit and collection policies of wholesale concerns, retail firms, and banks. The sources of credit information, the use of agency reports, interpretation of financial statements; collection tools and their uses. Prerequisite: BA 222, 223, or consent of instructor. Ballaine.
- (U) **BA 439. Retail Buying.** (G) 3 hours spring.
Buying problems. Merchandising organization, merchandising resources, determination of what and when to buy, model stock and buying plans, buying offices, group, central, and cooperative buying, techniques of selecting merchandise, trading points, and trade relations. Prerequisite: BA 436. Dodge.
- (U) **BA 442. Principles of Salesmanship.** (G) 3 hours spring.
Principles and techniques of personal salesmanship; selling reactions. From the standpoints of seller and buyer. Prerequisite: BA 223 or consent of instructor. Richins.
- (U) **BA 445. Retail Advertising.** (G) 3 hours spring.
Study of management problems of the retail advertising department. Advanced practice in layout, copy writing, and production of retail advertising for newspapers, radio, television, and direct mail. Prerequisite: BA 339 or consent of instructor. Not open to students who have had BA 441 or BA 443.
- (U) **BA 448. Air Transportation.** (G) 3 hours winter.
Air transportation systems; Federal regulation; airport development in the United States; feeder air lines; nonscheduled air transportation. Prerequisite: BA 111, 112, 113; BA 222, 223. Ziebarth.
- (U) **BA 453. Business Policy.** (G) 3 hours spring.
Coordination of the specialized work given in the school; the interdependence of different departments of a business concern. Open to senior majors who have had or are taking Business Law. Prerequisite: BA 222, 223; Ec 201, 202, 203. Ziebarth.
- (S) **BA 461. Industrial Purchasing.** 3 hours winter.
Significant managerial problems raised by purchase and control of materials for industrial use as they affect control of quality of products, maintenance of operating efficiency, and quotation of competitive prices. Goddard.

- (U) BA 463, 464, 465. **Investments.** (G) 3 hours each term.
Methods for evaluating various kinds of investment securities; formulation of an investment policy. Detailed study of the special phases of investments including taxation, brokerage services, and security markets. Application of investment principles to the analysis of specific securities in the industrial public-utility, and railroad fields.
- (U) BA 466. **Business Cycles.** (G) 3 hours spring.
Study of economic changes; classification and analysis of business cycle theories. The availability, use, and the limitations of business barometers in forecasting; their possible application to the business enterprise. Prerequisite: senior standing or consent of instructor. Ballaine.
- (S) BA 497. **Human Relations in Business and Industry.** (g) 3 hours winter.
Relationships among managerial, supervisory and other workers; actual cases used to help develop attitudes, frames of reference, and approaches which will be useful in solving human relations problems in business. Prerequisite: senior standing or consent of instructor. Davis.

See also: Business Education and Secretarial Science
Economics

Business Education and Secretarial Science

Professor: YERIAN.

Associate Professors: LARSE, SMITH, WINGER.

Lower-Division Courses

- (P) SS 111, 112, 113. **Stenography.** 3 hours each term.
Theory of shorthand; practical applications in sentence dictation. SS 121, 122, 123 must be taken concurrently unless the student has had the equivalent. Students with one year of shorthand are not permitted to take course SS 111 for credit.
- (P) SS 121, 122, 123. **Typing.** 2 hours each term.
Theory and practice of touch typing; rhythmical drills, dictation exercises; writing paragraphs; punctuation and mechanical arrangements of business correspondence, legal forms, tabulating, manifolding, speed practice. Students with one year or more of typing are not permitted to take SS 121 for credit.
- (P) SS 211, 212, 213. **Applied Stenography.** 3 hours each term.
Advanced principles and phrases; dictation and transcripts covering vocabularies of representative businesses; legal forms; newspaper and magazine articles. Prerequisite: SS 113, 123 or equivalent.

Upper-Division Courses

- (S) SS 411. **Secretarial Problems.** 3 hours fall.
Duties and problems of the secretary in business and professions; relation to employer and fellow employees; office supervision. Prerequisite: SS 421 or equivalent. Yerian.
- (U) BA 421. **Principles of Business Education.** (G) 3 hours fall.
Aims and objectives of business education; history, trends, issues; curriculum construction at high-school and junior-college levels; instructional problems; research in business education. Prerequisite: senior standing and consent of instructor. Smith.

Graduate Courses

- (S) BEd 507. **Seminar: Teaching Socio-Business.** 3 hours winter.
Teaching skills and techniques in non-skill business subjects. Special emphasis in teaching of general business. Yerian.

- (S) BEd 507. **Seminar: Current Trends in Office Procedure.** 3 hours spring.
Teaching of clerical and secretarial practice, business machines and allied activities. Larse.
- (S) BEd 541. **Current Practices in Typing.** 3 hours fall.
Principles underlying the development of typing skills; motivation, supplementary materials, and special devices. Prerequisite: Ed 408 or teaching experience in typing. Winger.

Chemistry

Associate Professor: JOHNSON.

Assistant Professor: ROBERTI.

Lower-Division Courses

- (P) Ch 104, 105, 106. **General Chemistry.** 4 hours each term.
For students majoring in medical technology, pre dental, nursing, and general studies. Three lectures; 1 three-hour laboratory period. Johnson.

Upper-Division Courses

- (U) Ch 331, 332. **Introductory Organic Chemistry.** 4 hours fall and winter.
Chemistry of the carbon compounds; the aliphatics, aromatics, and derivatives. 3 lectures; 1 three-hour laboratory period. Prerequisite: one year of college chemistry. Roberti.

Drama

(See SPEECH AND DRAMA)

Economics

Professor: HOLLANDS.

Assistant Professors: CAMPBELL, LANGMO, LOVELL.

Instructor: TATTERSALL.

Lower-Division Courses

- (P) Ec 201, 202, 203. **Principles of Economics.** 3 hours each term.
Principles that underlie production, exchange, distribution, etc. Prerequisite: sophomore standing.
- (P) Ec 212. **Outlines of Economics.** 3 hours spring.
A rapid survey of the principles of economics and economic institutions. Lovell.

Upper-Division Courses

- (U) Ec 326. **Organized Labor.** 3 hours fall.
History of the labor movement; aims, methods, and policies of trade unions, conservative and radical. Prerequisite: Ec 201, 202, 203. Lovell.
- (U) Ec 327. **Labor Legislation.** 3 hours winter.
Labor legislation in the United States; problems facing employee, employer, and public which call for regulation through public authority. Prerequisite: Ec 201, 202, 203. Lovell.
- (S) AEc 341. **Principles of Agricultural Marketing.** 3 hours winter.
Marketing farm products; markets, marketing services, prices, role of producers; middlemen and consumers; improving the marketing of major agricultural products. Prerequisite: a basic course in Economics or consent of instructor. Hollands.

- (U) Ec 415. **Economy of the Pacific Northwest.** (G) 3 hours spring.
Changes in and sources of personal income in the Pacific Northwest; industrial basis of the regional product; balance of payments; development of wood products. Prerequisite: Ec 201, 202, 203. Campbell.
- (S) AEc 421. **Marketing Efficiency Analysis.** (G) 3 hours spring.
Techniques for determining costs and efficiency of marketing and processing operations of agricultural products; reducing costs and improving efficiency through work methods, equipment, materials handling and plan layout. Prerequisite: senior standing, a basic course in Economics and AEc 341 or consent of instructor. Langmo.
- (U) Ec 487, 488. **American Economic History.** (G) 3 hours fall and winter.
All phases of the economic development of the United States. Tattersall.

Education

Professors: BERNARD, CAUGHLAN, KILLGALLON, MUMFORD, REICHAERT, ROMNEY, SPALDING.
Associate Professors: BRODY, GILL, HEARN, LEAVITT, LEE, PETERSEN, PHELPS, SOMERVILLE, TENPAS, WOLF.
Assistant Professors: CHOATE, CULBERTSON, FULLMER, GRIDLEY, GUY, HALL, HUDSON, KANE, KERSCH, PIERSON.
Instructors: BINGHAM, CONDIT, MEINDL, SULLIVAN, TAYLOR.

Lower-Division Courses

- (P) Ed 111. **Orientation to Teaching.** 3 hours winter.
This course is intended to assist prospective teachers to make effective adjustments to college and social needs through acquainting them with methods of study, use of library, time budgeting, and social and recreational opportunities. It will also provide opportunity for becoming acquainted with the demands and rewards of the teaching profession. Tests will be given in order that each student may understand how nearly his speech, hearing, vision, and personality fit him for teaching. Sullivan.
- (P) Ed 310. **School in American Life.** 3 hours fall or winter.
A course designed to acquaint prospective teachers with the historical and philosophical background and development of the American public school. Special attention will be given to the development of the present day curricular practices and a comparison of opposing philosophies of education. In this course attention will be devoted to Oregon School Law and System of Education.
- (P) Ed 312. **Educational Psychology: Learning.** 3 hours any term.
A consideration of the nature of the learner, changes which occur in learning processes, conditions under which learning best takes place, and the characteristics and methods of the teacher who directs learning in the school. Basic concepts of measurement are utilized to evaluate the changes which characterize learning. Field experiences supplement theoretical study. Prerequisite: Psy 201, 202.
- (P) Ed 314. **Principles of Teaching in the Secondary School.** 3 hours spring.
Different methods of presentation of subject matter; values and weaknesses of each method; individual and group differences; extracurricular activity programs; measuring the results of teaching. Prerequisite: Ed 311, 312.
- (P) Ed 344. **Physical Education in the Grades.** 3 hours any term.
Theory and practice in rhythm; singing games, group and folk dancing; stunts, games, self-testing activities, tumbling; materials; planning and evaluating programs with reference to basic principles of physical education. Hudson and staff.

- (P) Ed 351. **Health Education in the Elementary Grades.** 3 hours winter.
Teaching of health education with emphasis on health knowledge, health attitudes, and health habits of school children, and the development of a health-service program. Special study of the state health-education program. Prerequisite: Sc 101, 102, 103.
- (P) Ed 357. **Methods and Materials: Reading.** 3 hours fall.
The place of reading in the modern elementary school. Trends and practices in reading instruction and prevention of reading difficulties. A study of appropriate materials and methods. Prerequisite: Ed 311, 312, and Psy 311.
- (P) Ed 358. **Methods and Materials: Science and Mathematics.** 3 hours winter.
Science and mathematics in the elementary schools. Methods in the area of science, including experiments in demonstrations, trips, and instructional materials. Trends and practices in the teaching of mathematics. Emphasis will be placed upon basic principles, research studies, problem solving, and the utilization of life situations. Prerequisite: Ed 311, 312 and Psy 311.
- (P) Ed 359. **Methods and Materials: Language Arts and Social Studies.** 3 hours spring.
Trends and practices in listening, speaking, spelling, handwriting and English. Educational objectives of social studies and social problems of elementary school pupils. Organization and planning of a unit of work. Attention will be given to appropriate methods and materials in language arts and social studies. Prerequisite: Ed 311, 312, and Psy 311.
- (P) Ed 380. **Elementary-School Library.** 3 hours fall.
Organization, administration and development of the elementary-school library, including instruction in simple methods of handling essential technical, mechanical, and business processes; the care and repair of books, evaluation of reference materials useful for both teacher and children; stimulation of wider use of books for study and recreation; utilization of the library resources of Oregon, and services of the school library to the community. Bingham.
- (P) Ed 389. **Reading and Telling Children's Stories.** 3 hours winter.
An introduction to the collection of old folk and modern fanciful tales, with laboratory practice in the reading and telling of stories for children through the elementary grades. Prerequisite: Eng 388 or consent of instructor. Petersen.
- (P) Ed 390. **Enriching Children's Reading.** 3 hours spring.
A study of the enrichment of children's reading through literature. An advanced course designed for parents and teachers of nursery, kindergarten, and elementary school children. Prerequisite: Eng 388 or consent of instructor. Petersen.
- (C) (U) (S) Ed 405. **Reading and Conference.** Terms and hours to be arranged.
- (U) Ed 424. **Measurement in Education.** (G) 3 hours fall or spring.
Use and interpretation of informal and standardized tests as supervisory and guidance instruments for the diagnosis, analysis, evaluation and improvement of instruction in the elementary and secondary schools. Test planning, item writing, essay testing, administration and scoring, analysis of scores and grade assignment. Simple statistics of test interpretation. Kersch, Fullmer.
- (S) Ed 435. **Audio-Visual Aids.** (G) 3 hours any term.
Film, slide, chart, and other visual materials; selection and use to best advantage; operation of projectors and other equipment. Prerequisite: senior standing or consent of instructor. Somerville and staff.

- (S) Ed 440. **History of Education.** (G) 3 hours fall.
Growth and development of education; Plato, Aristotle, Renaissance educators, Comenius, Locke, Rousseau, Pestalozzi, Froebel, Herbart, Herbert Spencer, and Dewey. Prerequisite: Ed 311, 312. TenPas.
- (C) Ed 451. **Preprimary Education.** (G) 3 hours fall.
An evaluation of the preprimary period in terms of the opportunities it affords to build good attitudes toward school life, to help the child adjust himself to the group, to build good habits of work, and to develop a readiness for subjects in the first-grade curriculum, such as reading, numbers, and language. Prerequisite: Psy 311, Ed 311, Ed 312 or consent of instructor. Kane.
- (U) Ed 461. **Psychology of Reading Instruction.** (G) 3 hours spring.
The fundamental nature of the reading process; principles of growth, adjustment, and learning basic to reading achievement; psychological foundations of methods of reading instruction. Lee.
- (U) Ed 462. **Psychology of Exceptional Children.** (G) 3 hours winter.
Survey of characteristics and problems of all types of exceptional children with special emphasis on those with sensory handicaps; consideration of essential educational adaptations. Killgallon.
- (S) (U) Ed 463. **The Maladjusted Child.** (G) 3 hours winter.
The discovery and treatment of the emotionally and socially maladjusted child; the home, school, and community in relation to the child's mental health. Prerequisite: Ed 311, 312.
- (U) Ed 464. **The Mentally Deviate Child.** (G) 3 hours spring.
Identification and guidance of the mentally deficient and slow learner. Taylor.
- (U) Ed 465. **Diagnostic and Remedial Techniques.** (G) 3 hours spring.
Diagnostic, remedial, and corrective techniques in basic school subjects; application of techniques to actual cases. Killgallon.
- (C) Ed 467. **Applied Mental Hygiene.** (G) 3 hours spring.
A study of the development of personality, personality conflicts, mechanisms of adjustment, and the basic principles of mental hygiene. Emphasis is placed on application of mental hygiene principles to personality development of teachers and of children. Bernard.
- (C) Ed 468. **Diagnostic and Remedial Instruction in Reading.** (G) 3 hours fall.
Opportunities for experienced teachers to consider the typical causes of difficulty in the reading program and to evaluate procedures to be used in remedial classes by means of lectures, demonstrations, readings, and case studies. This course is essentially the same as Ed 465. Students may register for Ed 465 if they prefer.
- (P) Ed 476. **School Law and Organization.** 2 hours fall or spring.
Oregon laws applying to school and teachers; teacher personnel policies and practices; professional organization; means for continued professional growth. Condit.
- (S) Ed 476. **Oregon School Law and Organization.** (G) 2 hours winter.
Oregon school system and laws on which it is based; problems of Oregon schools; plans for solution; course of study; trends in educational development. Prerequisite: junior standing. Meindl.
- (U) Lib 484. **School Library Administration.** (g) 3 hours spring.
Planned for school administrators as well as librarians. Particular emphasis on the place of the library in the instructional program. Problems of support and control; housing and equipment; standards; evaluation; objectives.

- (C) Ed 484. **Junior High School.** (G) 3 hours winter.
Development of the junior high school, its purposes and objectives. The general organization of the school; courses of study; present practices in leading representative junior high schools; the direction of classroom activities; provision for individual differences; pupil guidance, and socialization. Pierson.
- (S) Ed 485. **Principles and Practices of Guidance Services.** (G) 3 hours fall.
Overview of guidance and personnel work. Attention given to vocational, educational, health, social, personality, recreational, and other aspects of individual development. Participation of teachers, counselors, administrators, parents, and community organizations in a program of guidance. For all teachers and administrators. Students specializing in guidance should begin with this course. Prerequisite: senior standing. Gridley.
- (S) Ed 486. **Occupational and Educational Information.** (G) 3 hours winter.
Materials available regarding occupations; interpretations of present trends; value and usefulness for high-school and college students. Prerequisite: senior standing. Gridley.
- (S) Ed 487. **Counseling Techniques.** (G) 3 hours spring.
Mental, achievement, trade, and other tests; administration of such tests; classifications, methods in educational and vocational counseling. Prerequisite: Ed 485. Gridley.
- (S) Ed 490. **Educational Sociology.** (G) 3 hours spring.
Analysis of contributions of sociology to educational problems and practices. Prerequisite: Ed 310, 312, and introductory sociology or consent of instructor.

Graduate Courses

- (U) (S) Ed 501. **Research.** Terms and hours to be arranged.
Prerequisite: graduate standing in education. Registration only after graduate adviser's approval.
- (U) (S) (C) Ed 503. **Thesis.** Terms and hours to be arranged.
- (U) (S) Ed 505. **Reading and Conference.** Terms and hours to be arranged.
- (C) Ed 506. **Special Individual Studies.** Maximum of 6 hours. Terms and hours to be arranged. Registration only after adviser's approval of student's project.
- (S) Ed 507. **Seminar: Higher Education in the Urban Community.** 3 hours fall.
The development of urban colleges and universities and their relationship with the community; problems of students, faculty, and curriculum. Caughlan.
- (U) Ed 507. **Education Seminar: Problems of Teacher Education.** 3 hours fall.
Intended to provide definition and solutions for common problems encountered in training teachers. Spalding.
- (U) Ed 507. **Education Seminar: Problems of Public School Administration.** 3 hours spring.
Intended for advanced students of public school administration and for persons who hold administrative positions. Students are expected to become familiar with basic theory of organization and to apply this theory to selected problems from the field. Prerequisite: consent of instructor. Spalding.
- (C) Ed 512. **Research Procedures in Education.** 3 hours spring.
Study and evaluation of the methods, techniques, and tools of research. Critical analysis of sample research studies and development of criteria and methods for conducting research. Techniques of reading research and writing reports and articles for professional journals. Hall.

- (S) Ed 512. **Research Procedures in Education.** 3 hours spring.
Methods, techniques, and tools for doing research work; meaning of scientific method; ways of locating and formulating problems; necessary statistical tools; collections and interpretations of data; preparation of research reports. Hall.
- (U) Ed 512. **Research Procedures in Education.** 3 hours fall.
The nature and procedures of research in education; special techniques of thesis, field study, research paper, and dissertation. Open to graduate students majoring in other fields. Does not take the place of individual supervision of the student's thesis. An introductory course in statistics is desirable preparation. Fullmer.
- (S) Ed 522. **Secondary School Curriculum.** 3 hours winter.
Advanced course for experienced teachers. Schools in the community; guidance activities in school; extra class activities; role of school in contemporary society; teacher in local community. Prerequisite: graduate standing in education. TenPas.
- (S) Ed 523. **School Activities.** 3 hours fall.
Principles and purposes of school activities; pupil participation in school government; assemblies, clubs, social activities, athletics, speech activities, drama, music and publications; evaluation of activity program. Prerequisite: Ed 310, 312. Gill.
- (U) Ed 526. **High School Counseling.** 3 hours winter.
The purposes, techniques, and processes of counseling. Dynamics of adjustment and personality change. Methods of promoting emotional, educational, and occupational adjustment. Fullmer.
- (U) Ed 527. **Secondary-School Administration and Supervision.** 3 hours spring.
The secondary-school principalship; principles of administration, staff relationships, public relations, and professional growth; business administration; administration of guidance services, curriculum, and school activities; evaluation of secondary school. Hearn.
- (U) Ed 536. **Language Arts in the Elementary School.** 3 hours spring.
The role of language arts in the elementary-school program; objectives; research findings on language development; the teaching of spelling, writing, and speaking-listening skills; newer instructional materials; testing and evaluation. Choate.
- (U) Ed 537. **Reading in the Elementary School.** 3 hours fall.
Nature of the reading process, objectives, organization of a desirable reading program; reading readiness, reading skills; procedures and materials for developing children's reading abilities; methods of diagnosing difficulties and evaluating progress; research findings concerning the teaching of children to read.
- (U) Ed 538. **Mathematics in the Elementary School.** 3 hours winter.
Number abilities needed by children; research findings in mathematics education; designing number experiences; theories of teaching, desirable teaching procedures; selection and use of materials.
- (S) Ed 543. **History of American Education.** 3 hours winter.
Intellectual development of America with special reference to education. Prerequisite: graduate standing in education. Reichart.
- (S) Ed 546. **Philosophy of Education.** 3 hours spring.
Fundamental problems of education, with some attempt at their solution; meaning of philosophy; philosophy of education; value for teacher and administrator. Prerequisite: graduate standing in education. Reichart.

- (S) Ed 553. **Elementary School Curriculum.** 3-4 hours fall.
Pupil needs in life situations, objectives, essentials of a goal program, varying curriculum designs, organization of learning experiences, evaluation of learning, appraisal of new curriculum practices. Prerequisite: elementary certification, one year elementary teaching experience. Leavitt.
- (S) Ed 554. **Elementary School Supervision and Administration.** 3-4 hours winter.
Role, duties, needs, problems of supervision; evaluation and improvement of teaching-learning situation. Prerequisite: elementary certification, one year of elementary teaching experience. Hall.
- (S) Ed 558. **American Higher Education.** 3 hours winter.
Functions and structures of American higher education; land-grant college movement; junior college; current problems and trends in their historical perspective. Prerequisite: graduate standing. Mumford.
- (S) Ed 561. **Advanced Educational Psychology.** 3 hours spring.
Experimental material that seems most useful and relevant to educational psychology. Prerequisite: graduate standing in education. Brody.
- (U) Ed 565. **Curriculum Foundations.** 3 hours fall.
Implication of basic social, philosophical, and psychological factors in curriculum planning and organization; historical background; techniques of curriculum planning. Spalding.
- (U) Ed 566. **Curriculum Construction.** 3 hours winter.
Survey and appraisal of curriculum patterns; state and city programs; courses of study in major subject areas; techniques of course-of-study planning. Spalding.
- (U) Ed 567. **Curriculum Materials.** 3 hours spring.
Effective use and organization of curriculum materials; text and reference books, supplementary pamphlet material, films and slides, records and recordings, pictures, radio, etc.; techniques of unit construction and community survey.
- (U) Ed 572. **Public-School Administration.** 3 hours fall.
Duties and responsibilities of school administrators. Relationships with board, staff, and community. Consideration of the professional and non-professional problems of school administration. Culbertson.
- (U) Ed 573. **Public-School Organization.** 3 hours winter.
The organizational patterns and programs of both elementary and secondary schools. Details of administration, including scheduling, records, and accounts, public accounting, personnel and guidance programs, activity programs, etc. Culbertson.
- (U) Ed 574. **School Supervision.** 3 hours spring.
Purposes and techniques of school supervision, as applied both to elementary and secondary schools. The organization of supervisory programs and diagnosis of both teacher and pupil difficulties. Leavitt.
- (U) Ed 575. **School Finance.** 3 hours fall.
The problems of school finance and business management; sources of school income, relationship to the state financial structure, budgeting and accounting, as effected by the school program. Construction of a budget is a part of the course. Romney.
- (U) Ed 576. **School Buildings.** 3 hours winter.
A study of the problems involved in planning, financing, and construction of school buildings; the care and maintenance of buildings; problems of equipment. An analysis of problems in a specific district is a part of the course. Romney.

(S) Ed 587. **Adult Education.** 3 hours spring.

Development, methods, and results; public schools, extension instruction, industrial and commercial organizations, radio, and other agencies of adult learning.

See also: **Business Education and Secretarial Science**
Psychology

COURSES OFFERED OUTSIDE PORTLAND CENTER

Multnomah County Public Schools

Instructor: MARTIN.

The following courses, arranged in cooperation with the Multnomah School Health Agency, are offered at *Russellville School*, 124 S.E. 102nd Avenue, Portland. Classes meet from 4:00 to 6:45 p.m. Students *register at Portland Extension Center* in accordance with the Center's established registration dates and procedures.

(U) Psy 460. **Developmental Psychology I: Infancy and Childhood.** (g) 3 hours fall.

Development of behavior and psychological activity through the prenatal period, infancy, childhood, adolescence, maturity, and old age. Changes of intelligence, motor capacity, emotional response, language, and social behavior. Emphasis on social influence.

(U) Psy 461. **Developmental Psychology II: Adolescence and Maturity.** (g) 3 hours winter.

Continuation of Psy 460.

(U) Ed 462. **Psychology of Exceptional Children.** (G) 3 hours spring.

Survey of characteristics and problems of all types of exceptional children with special emphasis on those with sensory handicaps; consideration of essential educational adaptations.

Oregon City Public Schools

Professor: HOFFMANN.

Associate Professors: FERRIER, SCHULZ.

Assistant Professors: CHENEY, HEIDEL.

Instructor: GRIMM.

The following courses, arranged in cooperation with Clackamas County Public Schools, Oregon City Public Schools, and West Linn Public Schools, are offered at Oregon City during the term shown. All classes begin at 6:45 p.m. Meeting nights and places are detailed in the *Portland Extension Center Class Schedule* published prior to each term. Students *register at Portland Extension Center* in accordance with the Center's established registration dates and procedures.

Non-Credit Courses

(E) AA 055. **Ceramics.** Non-credit (2) spring.

Introduction to ceramic techniques and materials. Throwing, moulding, and hand building. Surface decoration of two- and three-dimensional surfaces. Students participate in stacking, firing, and drawing the kilns. Grimm.

- (E) AA 090. **Painting.** Non-credit (2) winter.

Instruction in the use of oil color, water color, and other media. Heidel.

Upper-Division Courses

- (U) Hst 377. **Oregon History.** 2 hours fall.

Brief survey of the building of civilization in the Oregon Country. Hoffmann.

- (C) Ed 407. **Seminar: The Parent-Teacher Conference.** 2 hours fall.

Intended to help parents and teachers to learn about the conference method of reporting student progress; consideration of counseling and guidance techniques useful to the parent and the teacher. Schulz.

- (S) Ed 435. **Audio-Visual Aids.** (G) 3 hours spring.

Film, slide, chart, and other visual materials; selection and use to best advantage; operation of projectors and other equipment. Prerequisite: senior standing or consent of instructor.

- (C) Ed 468. **Diagnostic and Remedial Instruction in Reading.** (G) 3 hours winter.

Opportunities for experienced teachers to consider the typical causes of difficulty in the reading program and to evaluate procedures to be used in remedial classes by means of lectures, demonstrations, readings, and case studies. This course is essentially the same as Ed 465.

- (S) SEd 481. **Alcohol Studies in the School Curriculum.** (G) 3 hours winter.

Incorporation of scientific information about alcohol in the school curriculum; physiological, sociological, legal aspects of alcoholism. Ferrier.

- (S) Ed 485. **Principles and Practices of Guidance Services.** (G) 3 hours spring.

Overview of guidance and personnel work. Attention given to vocational, educational, health, social, personality, recreational, and other aspects of individual development. Participation of teachers, counselors, administrators, parents, and community organizations in a program of guidance. For all teachers and administrators. Students specializing in guidance should begin with this course. Prerequisite: senior standing. Cheney.

Portland Public Schools

Associate Professor: LEE.

Instructors: HAMILTON, JENNE, MCGILL, STOTLER, SWENSON.

The following courses, arranged in cooperation with the Portland Public Schools are given for in-service training of Portland teachers. They also are open to other qualified students. Most classes are held Tuesday afternoon, from 4:00 to 6:15 p.m. in one of the public schools. Meeting times and places are detailed in the *Class Schedule* published prior to each term. *Students who expect academic credit must complete their registration with the registrar at Portland Extension Center in accordance with the Center's established registration dates and procedures.* Students who seek In-Service credit only must comply with the established procedures of the Portland Public Schools.

Lower-Division Course

- (U) PE 282. **Fundamentals of Rhythm. (Kindergarten and Primary)** 2 hours winter.

Study of rhythm as a basic factor of movement. Specific rhythmic devices used in the dance. Jenne.

Upper-Division Courses

- (S) Ed 407. **Seminar: Guidance Services.** 2 hours winter.
Overview of guidance and personnel work. Attention given to vocational, educational, health, social, personality, recreational, and other aspects of individual development. Participation of teachers, counselors, administrators, parents, and community organizations in a program of guidance. For all teachers and administrators. McGill and staff.
- (C) Ed 455. **Primary Education Workshop.** 2 hours winter.
Designed for primary teachers. Problems dealing with the unit approach to teaching and the skill areas, arithmetic and language arts, will be studied. In programs leading to degrees in education this course is acceptable for elective credit only. Hamilton and staff.
- (C) Ed 459. **Intermediate and Upper-Grade Education Workshop.** 2 hours winter.
Designed for elementary teachers who are new in the district. Problems dealing with the unit approach to teaching and the skill areas, arithmetic and language arts, will be studied. Groups will be organized in intermediate and upper-grade levels. In programs leading to degrees in education this course is acceptable for elective credit only. Hamilton and staff.
- (U) Ed 450. **Radio Education.** 2 hours winter.
Use of radio programs in the classroom, techniques of broadcasting procedures, preparation of scripts and use of transcriptions. Home radio and television utilization. Swenson.

Graduate Courses

- (U) Ed 507. **Education Seminar: Elementary School Science.** 2 hours fall.
Stotler.
- (S) Ed 507. **Seminar: Procedures for Supervising Teachers.** 2 hours fall.
Designed for administrators and classroom teachers who will work with student teachers. Lee.

Engineering*

Professor: ENGESSER.

Associate Professor: McCLELLAN.

Instructors: BURGESS, DUNSTAN, GRAF, LOWY, McGEORGE, RAUPACH.

General Engineering Courses

Lower-Division and Non-Credit Courses

- (E) GE 031. **Personal Finance for Engineers and other Professionals.** Non-credit (2) spring.
Insurance, securities, basic investment programs for engineers. Graf.
- (E) GE 041. **Engineering Law.** Non-credit (2) fall.
Contracts and specifications, bonds, sureties, liability, condemnation, lien remedies, tort liability to employees and third persons, real property law, and patents. McGeorge.
- (S) GE 104, 105, 106. **Engineering Fundamentals.** 3 hours each term.
Basic concepts and principles of physical science; elementary technical problems; algebraic composition; training in use of slide rule. Two 3-hour periods weekly.

* Courses listed under Civil, Electrical, and Industrial Engineering are designed for advanced engineering students or for persons with practical experience in the field. Students interested in lower-division work toward an engineering degree should also see: Chemistry, Mathematics, and Physics.

- (S) GE 111, 112, 113. **Engineering Drawing.** 2 hours each term.
Fundamental principles and the rules of composition of the graphic language of engineering. Two 3-hour periods weekly.
- (P) GE 201, 202, 203. **General Engineering.** 3 hours each term.
Courses designed for technical terminal students and non-professional degree students. Application of the basic principles of science to general problems of engineering. Prerequisite: GE 106 or equivalent. Two 3-hour periods weekly.

Civil Engineering Courses

Non-Credit Review Course

- (E) CE 011. **Civil Engineers' Review.** Non-credit (3) fall.
Designed to prepare civil engineering graduates for examinations administered by the Board of Engineering Examiners of Oregon. Burgess.

Upper-Division and Graduate Courses

- (S) CE 341. **Fluid Mechanics.** 3 hours spring.
Application of mechanics to compressible and incompressible fluids. Prerequisite: CE or ME 212, 213; Mth 203.
- (S) CE 405, 505. **Reading and Conference: Modern Structural Theory.** 3 hours fall.
Ultimate design theory in concrete structures; plastic design in steel structures. McClellan.

Electrical Engineering Courses

Non-Credit Review Course

- (E) EE 012. **Electrical Engineers' Review.** Non-credit (2) fall.
Designed to prepare electrical engineering graduates for examinations administered by the Board of Engineering Examiners of Oregon.
(This course will start first week in November and extend into February, 1958.)

Upper-Division Courses

- (S) EE 405. **Reading and Conference: Fundamentals of Digital Computers.** 3 hours fall.
Discussion of several of the computers in common use, their application to engineering problems, and programming of simple problems. Dunstan.
- (S) EE 405. **Reading and Conference: Fundamentals of Servomechanisms.** 3 hours winter.
Theory, basic fundamentals, operation and application of servomechanism elements such as magnetic amplifiers and static control devices (Cypak). Raupach.
- (S) EE 405. **Reading and Conference: Sound Reproduction.** 2 hours spring.
Mechanical, electrical, and acoustical problems associated with reproduction of sound; hi-fi equipment; tape recorders; speaker enclosures, etc.

Industrial Engineering Courses

Upper-Division and Graduate Courses

- (S) IE 405, 505. **Reading and Conference: Operations Research.** 3 hours fall.
Application of statistics and higher mathematics to manufacturing problems for small- and medium-sized plants. Use and results of new quantitative measures such as linear programming, probabilities theory, queueing theory, system simulation. Engesser and staff.

- (S) IE 490. **Supervision Principles.** (G) 3 hours winter.
Basic company, supervisor, and operator objectives and responsibilities, and their relationship to one another; solutions of case problems compared with fundamentals established by industrial leaders. Prerequisite: IE 391, 392, 393, or consent of instructor. Engesser and staff.
- (S) IE 405, 505. **Reading and Conference: Predetermined Timing.** 3 hours spring.
Use of predetermined time values for establishing normal times. Survey of recent synthetic timing techniques such as MTM (methods time measurements), BMT (body motion time), DMT (dimensional motion time), and others. Engesser and staff.

Mechanical Engineering Courses

Lower-Division Courses

- (S) ME 213. **Mechanics (Dynamics).** 3 hours fall.
Continuation of ME 212. Principles and problems in kinetics; numerous problems. Prerequisite: ME 212. Lowy.
- (S) ME 219. **Mechanics of Materials.** 3 hours winter.
Continuation of ME 218. Mechanics as applied to analysis of stress and strain distribution in machine and structural elements; rational design possibilities. Prerequisite: elementary analysis.

English

Professors: DAHLSTROM, FRANCHERE, OLIVER, ORDEMAN, POWERS, YERIAN.
Associate Professor: BIERMAN.
Assistant Professors: HART, JOHNSON, SCHARBACH, WEISS.
Instructors: BINGHAM, FORD, NETBOY, YORKS.

Literature

Lower-Division Courses

- (P) Eng 101, 102, 103. **Survey of English Literature.** 3 hours each term.
From *Beowulf* to the present. Fall: *Beowulf* to Milton; winter: Milton to Byron; spring: Byron to the present. Scharbach.
- (P) Eng 104, 105, 106. **Appreciation of Literature.** 3 hours each term.
The aim is to stimulate the appreciation and criticism of literature through a study of the outstanding works in prose and poetry, selected from all periods including the twentieth century; includes works in English and translations from other literatures. Ford.
- (P) Eng 107, 108, 109. **World Literature.** 3 hours each term.
A sequence in narrative prose, drama, and poetry. Complete books are studied so that the student may be familiar with some of the masterpieces in Western world literature. Netboy.
- (P) Eng 201, 202, 203. **Shakespeare.** 3 hours each term.
Study of the important plays—comedies, histories, and tragedies. Hart.
- (P) Eng 253, 254, 255. **Survey of American Literature.** 3 hours each term.
American literature from its beginning to the present day. Two consecutive terms will satisfy the high-school teaching requirement in English. Oliver.

Upper-Division Courses

- (U) Eng 302. **The Prose Tradition in English Literature.** 3 hours winter.
Thought and attitude of mind in their relation to prose style. Bierman.
- (P) Eng 311, 312, 313. **Tragedy, Comedy, and Satire.** 3 hours each term.
Fall term: Tragedy. A study of the nature of tragedy and of its expression in various literary forms. Winter term: Comedy. The comic view of non-dramatic forms, as well as in the stage tradition. Main emphasis on English masters, but with attention also to classical and continental writers. Principal theories of the comic and of the corresponding literary forms and types. Spring term: Satire. Satire or criticism through ridicule, as a major type of literary expression. Examples from various literary forms—dramatic, narrative and poetic—and from ancient and foreign literatures, as well as English. Special emphasis on contemporary satire. Fall: Dahlstrom; Winter: Johnson; Spring: Bierman.
- (P) Eng 388. **Children's Literature and Library.** 3 hours fall.
An introductory course designed to give acquaintance with some significant books, for children, with emphasis on the quality of a book; its format, text, and illustrations. An investigation of school library procedures with suggestions for the presentation of children's literature in the elementary school. Bingham.
- (U) Eng 391, 392, 393. **American Novel.** 3 hours each term.
Development of the American novel from its beginnings to the present. Oliver.
- (U) Eng 398, 399. **Contemporary Drama.** 3 hours fall and spring.
Fall: English and continental romantic drama, the new stage realism, melodrama, and the triumph of naturalism with Ibsen and the Russians; Spring term: English and American dramatists from Wilde, Shaw, and Galsworthy to O'Neill, Sherwood, Wilder, and Fry. Johnson.
- (U) Eng 436. **Advanced Shakespeare.** (G) 3 hours winter.
Intensive study of several plays, with primary emphasis on textual problems and sources. Prerequisite: year sequence in Shakespeare. Dahlstrom.
- (U) Eng 444. **Milton.** (G) 3 hours fall.
Bierman.
- (U) Eng 488. **Literature for Teachers.** (g) 3 hours winter.
For students interested in teaching high-school English. Training in comprehension and analysis of representative literary works. Readings from English and American literature, selected in part from state-adopted high-school texts. Does not apply toward the satisfaction of the minimum requirements for a major in English. Franchere.
- (U) Eng 491. **Introduction to Modern English.** (g) 3 hours spring.
A general view of modern English vocabulary, grammar, pronunciation, and spelling. Recommended for teachers of English. Dahlstrom.
- (U) Eng 507. **Seminar: Criticism.** 3 hours spring.
Recommended for high school teachers of literature. Franchere.

Writing

Lower-Division Courses

- (P) Wr 111, 112, 113. **English Composition.** 3 hours each term.
The fundamentals of English composition; frequent written themes. Special attention to correctness in fundamentals and to the organization of papers.
Fall: Wr 111, 113
Winter: Wr 111, 112
Spring: Wr 111, 112, 113

- (S) Eng 211. **Vocabulary Building.** 3 hours any term.
Through analysis of words and meanings in context, seeks to increase vocabulary, reading comprehension, and effective use of language. Yorks, Orde-
man.
- (S) Wr 214. **Business English.** 3 hours winter or spring.
Analysis and writing of all types of modern business correspondence. Pre-
requisite: Wr 113 or consent of instructor. Netboy, Yerian.
- (S) Wr 221, 222, 223. **Short Story Writing.** 2 hours each term.
Analysis of short story and fiction techniques. Designed to develop proficiency
in art of writing short story. Courses in sequence but may be taken separately.
Prerequisite: Wr 113 or consent of instructor. Powers.
- (P) Wr 227. **Technical Report Writing.** 3 hours spring.
Application of principles to specific needs and interests of students. Pre-
requisite: Wr 113. Netboy.

Upper-Division Courses

- (U) Wr 316. **Advanced Expository Writing.** 2 hours spring.
Practice in various forms of expository writing. Powers.
- (E) Wr 354, 355. **Advanced Creative Writing.** 2 hours fall and winter.
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.
- (U) Wr 411. **English Composition for Teachers.** (g) 3 hours fall.
For students expecting to teach English in high school. Practice in writing
and a review of the rules of composition. Required for satisfaction of the
high-school teaching requirement in English. Prerequisite: Wr 111, 112, 113.
Franchere.

Family Life

(See HOME ECONOMICS)

Foreign Languages

Assistant Professors: BOWMAN, KRAFT, LECUYER.

Instructors: HERMAN, HOLMSTROM, LANGHAMMER.

French

Lower-Division and Non-Credit Courses

- (E) RL 001, 002, 003. **Conversational French.** Non-credit (2) each term.
Exercises in the spoken language. Lecuyer.
- (P) (U) RL 1a, 1b, 2a. **First-Year French (First Course)** 2 hours each term.
An introduction to French, stressing reading and speaking. Exercises in
elementary composition and grammar. Holmstrom.

German

Lower-Division Courses

- (P) (U) GL 1a, 1b, 2a. **First-Year German (First Course)** 2 hours each term.
Provides a thorough grammatical foundation and an elementary reading
knowledge of German as well as an understanding of the spoken language.
Langhammer.

Russian

Lower-Division Courses

- (U) SL 11a, 11b, 12a. **First-Year Russian. (First Course)** 2 hours each term.
The elements of the Russian language. Elementary reading, composition, and conversation. Bowman.

Spanish

Lower-Division and Non-Credit Courses

- (E) RL 011, 012, 013. **Conversational Spanish.** Non-credit (2) each term.
Exercises in the spoken language. Kraft.
- (P) (U) RL 11a, 11b, 12a. **First-Year Spanish. (First Course)** 2 hours each term.
An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Herman.

General Science

Associate Professor: HOPSON.

Instructor: COURTNEY.

Lower-Division Courses

- (P) GS 101, 102, 103. **Biological Science Survey.** 3 hours each term.
The fundamental principles of life as they apply to both plants and animals. For general students and those majoring in fields other than biology. Two lectures; 1 three-hour laboratory period.
- (P) GS 104, 105, 106. **Physical Science Survey.** 3 hours each term.
Fundamental principles of physics, chemistry, astronomy, and geology; development and application of the scientific method. For students majoring in fields other than the physical sciences who wish a broad view of the principles of several physical sciences. Two lectures; 1 three-hour laboratory-recitation period.
- (S) NR 261, 262, 263. **Cartography.** 3 hours each term.
Study and practice in using and compiling maps. NR 261: map drawing, materials, layout, graphs, and statistical maps; reading and using maps. NR 262: Projections, mechanical aids to cartography; aerial photography. NR 263: special mapping projects. Courtney.

Upper-Division Courses

- (P) GS 311, 312, 313. **Natural History of Oregon.** 3 hours each term.
The earth and life history of Oregon; kinds and distribution of contemporary plant and animal life; man and his relation to the environment; conservation of natural resources. Prerequisite: upper-division standing and a year sequence in general biology. Hopson.

General Studies

Portland Extension Center Adviser: MR. GEORGE V. GUY.

Chairman, University of Oregon Committee: DR. LLOYD R. SORENSON.

Chairman, Oregon State College Committee: DR. E. A. YUNKER.

GSSt 501. **Research in General Studies.** Terms and hours to be arranged.

GSSt 503. **Graduate Thesis.** Terms and hours to be arranged.

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

Geography

Associate Professor : DART.

Instructor : NEWHOUSE.

Lower-Division Courses

- (P) Geog 105, 106, 107. **Introductory Geography.** 3 hours each term.
A general introduction to the field of geography, in sequence as follows: Geog 105, physical elements; Geog 106, earth resources; Geog 107, cultural elements. Dart, Newhouse.

Upper-Division Courses

- (U) Geog 301. **Geography of the Pacific Northwest. (Oregon)** 3 hours spring.
A study of the land forms, climates, population, resources, products, and lines of communication of the Pacific Northwest.
- (U) Geog 320. **Political Geography.** 3 hours fall.
Geopolitical principles; boundaries and aspirations of nations as they grow out of natural regional settings. The strategy of men, lands and raw materials, colonies, migration, foreign-trade relations.
- (U) Geog 427. **Geography of the Soviet Union.** (G) 3 hours winter.
Geography of the Soviet Union; its resources, peoples, and world position, Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203.
- (U) Geog 431. **Geography of Asia.** (G) 3 hours spring.
Physical geography of the continent; the main economic, social, and political problems viewed in relation to geography. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203.
- (U) Geog 432. **Geography of Africa.** (G) 3 hours fall.
Physical geography of the continent; the main economic, social, and political problems viewed in relation to geography. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203.
- (U) Geog 435. **Urban Geography.** (G) 3 hours winter.
World distribution of great cities; urban patterns, forms and functions; systems of urban land classification; forces affecting urban land use; geographic aspects of city planning. Prerequisites: Geog 201, 202, 203; Geog 219.

See also: General Science: NR 261, 262, 263. **Cartography.**

Geology

Associate Professor : HOPSON.

Instructors : MASON, VAN ATTA.

Lower-Division Courses

- (P) G 201, 202, 203. **Geology.** 3 hours each term.
Process of nature by which earth's surface has been built up, deformed and torn down; natural history and occurrence of common rock and useful minerals; outline of history, of earth and life. Fall and Winter: Mason. Spring: Van Atta.

Upper-Division Courses

- (S) G 325. **Engineering Geology.** 3 hours spring.
Application and use of geology of engineering and industrial arts. Prerequisite: G 202. Some field trips required. Mason.
- (S) G 350. **Rocks and Minerals.** 3 hours fall.
Opportunity to become acquainted with rocks and minerals without prerequisites of the more technical courses. Especially useful to students expecting to teach general science. Prerequisite: upper-division standing. Hopson.

- (P) G 352. **Geology of Oregon.** 3 hours winter.
Origin and geologic history of landscape features of Oregon; for students without prior geologic background. Prerequisite: upper-division standing. Hopson.

Health and Physical Education

Professor: WASHKE.

Associate Professors: HOLLAND, RHODA, RODNEY.

Assistant Professors: HUDSON, WESTCOTT.

Instructor: EVONUK.

Lower-Division and Non-Credit Courses

- (E) PE 033. **Techniques of Relaxation.** Non-credit (2) spring.
Methods of combatting fatigue and neuromuscular hypertension in daily living. Hudson.
- (P) HE 252. **First Aid.** 3 hours fall.
Study of first aid and safety procedures—for the individual, schools, athletics, and civilian defense; meets certification standards of the American Red Cross. Holland.
- (U) PE 283. **Dance for the Elementary School.** 2 hours fall.
The dance program for children in the elementary school, grades one through six. Locomotor and nonlocomotor movement; dramatization and creative dance studies; singing games; traditional dance skills and folk dances for children of the intermediate grades. Hudson.

Upper-Division Courses

- (U) HE 358. **Safety Education.** 3 hours winter.
Basic principles of safety education; current safety programs as they apply to the school, home and community. Designed to develop competencies in skills and knowledges for meeting individual and mass emergency situations; also to prepare teachers to present this unit in their classes. First aid procedures; emergency procedures; safety phases of civil defense program. Minimum: 20 students.
- (U) PE 406. **Problems in Coaching Wrestling.** 2 hours fall.
This course is designed for persons interested in teaching wrestling. Westcott.
- (U) PE 472. **Kinesiology.** 3 hours spring.
Action of muscles involved in fundamental movements, calisthenics, gymnastics, and athletics. Prerequisite: Bi 371, 372. Evonuk.

Graduate Courses

- (U) PE 506. **Special Problems: Recreation.** 3 hours winter.
Consideration will be given to the study of selected problems and major issues in the fields of recreation leadership and management. Rodney.
- (U) PE 507. **Seminar: Camping Education and Recreation.** 3 hours spring.
Analysis and review of modern viewpoints in camping education and recreation; aspects of camp leadership techniques; essential principles, methods, resources and administrative and program practices for camping education and recreation. Rodney.
- (U) PE 550. **Current Movements in Physical Education.** 3 hours winter.
The different schools of thought and practice which determine the purposes and procedures in the professional field of physical education. Analysis of the Oregon and other regional public school programs. Prerequisite: graduate standing in physical education. Washke.

- (U) **Rec 553. Administration of Recreation.** 3 hours fall.
Organization and administration of recreation programs in recreational districts, communities, and municipalities; legal aspects, sources of funds, types of programs. Rodney.
- (U) **PE 556. Administration of Buildings and Facilities.** 3 hours spring.
Building layout and equipment; the relationships of the various functional units—equipment service, dressing facilities, activity spaces, administrative units, permanent and dismantlable equipment. Rhoda.
- See also: Courses Offered Outside Portland Center*

History

Professor: HOFFMANN.

Assistant Professors: BINGHAM, DMYTRYSHYN, GILMORE, KERR.

Instructors: CROOKHAM, WEBB.

Lower-Division Courses

- (P) **Hst 101, 102, 103. History of Western Civilization.** 3 hours each term.
Origins and development of Western civilization from ancient times to the present.
- (P) **Hst 201, 202, 203. History of the United States.** 3 hours each term.
From colonial times to the present day. Crookham.

Upper-Division Courses

- (U) **Hst 377. Oregon History.** 2 hours any term.
Brief survey of the building of civilization in the Oregon Country. (Meets certification requirements for Oregon teachers. See Hst 478 or Hst 478 (G) for more extensive courses which also meet certification requirements). Gilmore, Hoffmann.
- (U) **Hst 445. Europe since 1939.** (g) 3 hours fall.
Origins and course of World War II; postwar developments in the European states. Webb.
- (U) **Hst 446. Modern Germany.** (g) 3 hours winter.
The German Empire, the republican experiment of 1918-33, the National Socialist regime, World War II and after. Webb.
- (U) **Hst 447, 448, 449. History of Russia.** (G) 3 hours each term.
Fall: the Kievan state and the emergency of Muscovy; winter: the creation of the Russian empire, political, social, and economic developments; spring: revolutionary Russia, 1861 to present. Dmytryshyn.
- (U) **Hst 473, 474, 475. American Foreign Relations.** (g) 3 hours each term.
The origins, character, and consequences of American foreign policies from the Revolutionary War to the present. Kerr.
- (U) **Hst 476, 477. History of the West.** (G) 3 hours fall and winter.
The American frontier. First term: the early American frontier; second term: the trans-Mississippi West. Hoffmann.
- (P) **Hst 478. History of the Pacific Northwest.** 3 hours winter.
Detailed study of the building of civilization in the Pacific Northwest. Not open to students who have had Hst 377 Oregon History. Prerequisite: Hst 201, 202 or consent of instructor. Gilmore.
- (U) **Hst 478. History of the Pacific Northwest.** (G) 3 hours fall or spring.
Detailed study of the building of civilization in the Pacific Northwest. Not open to students who have taken Hst 377. Prerequisite: Hst 201, 202 or consent of instructor. Bingham, Gilmore.

- (U) Hst 479. **Forces and Influences in American History.** (G) 3 hours spring. Geographic influences; influence of the frontier; inheritance and tradition; economic forces; nationalism; sectionalism; manifest destiny; democracy. Hoffmann.
- (C) Hst 492. **World Problems.** (g) 3 hours spring. Consideration given to current and significant political, economic, and social problems of the nations in relation to American culture. *Not open to students who have taken SSc 411.* Webb.

Home Economics

Associate Professor: PETERSEN.

Assistant Professors: AIKIN, GRANT, WASSON.

Lower-Division Course

- (S) CT 250. **Textiles.** 3 hours winter. Properties, uses, selection, and care of textile fibers and fabrics. No pre-requisite, but chemistry is desirable. Grant.

Upper-Division Courses

- (S) FL 311. **Child Development.** 3 hours winter. Growth and development of normal pre-school children. Prerequisite: Psy 207 or 202. Aikin.
- (S) CT 331. **Home Furnishing.** 3 hours spring. Furnishing a small home from the standpoint of comfort, beauty, and economy; influence of historic design. Prerequisite: CT 212, 250, AA 161, 178, or consent of instructor. Wasson.
- (S) FL 428. **Curriculum Enrichment for Young Children.** (G) 2 hours spring. Methods of relating literature, art, music, and science activities to child interests; projects for nursery school. Prerequisite or parallel: FL 425. Petersen.

See also: Art

Education
Sociology

Horticulture

Professor: BOUQUET.

Lower-Division Course

- (P) Hrt 101. **Home Horticulture.** 2 hours spring. Introduction to principles underlying the culture of fruits, nuts, vegetables and ornamental plants, with emphasis on flowers and home gardens.

Journalism

Assistant Professor: LARSON.

Instructor: GROTH.

Lower-Division and Non-Credit Courses

- (E) J 034. **The Graphic Arts of Printing.** Non-credit (3) winter. Methods of printing, copy-fitting, topography and type faces, adaptability and use of common printing papers, processes, cost factors, new printing techniques and equipment. Intended for those interested in the design and preparation of printed materials with emphasis on advertising copy for newspapers, periodicals and third-class mailing pieces. Groth.

- (U) J 211. **Introduction to Journalism.** 3 hours fall.
An introduction to media of mass communication, including news, editorial, pictorial, business, and advertising aspects. No prerequisite. Larson.
- (S) J 211. **Copyediting.** 3 hours winter.
Copy reading, head writing, proof reading, and make-up; actual experience in editing copy. Prerequisite: an introductory course in journalism or consent of instructor. Two lectures; 1 laboratory period. Larson.
- Upper-Division Courses
- (U) J 341. **Principles of Advertising.** 3 hours winter.
Advertising as a factor in the distributive process; the advertising agency; the "campaign"; the function of research and testing; the selection of media—newspaper, magazine, broadcasting, outdoor advertising, direct mail.
- (U) J 445. **Retail Advertising.** (G) 3 hours spring.
Study of management problems of the retail advertising department. Advanced practice in layout, copywriting, and production of retail advertising for newspapers, radio, television, and direct mail. Prerequisite: J 339. Not open to students who have had J 441 or J 443.
- (U) J 459. **Publicity and Public Relations.** (g) 3 hours fall.
Basic techniques and methods in publicity programs for business, professional, and social organizations and interest groups; relationship of publicity to the broader concept of public relations. Not open to journalism majors.

Landscape Architecture

Associate Professors: MARTEL, SOLBERG.

Lower-Division Courses

- (S) LA 279. **Home-Ground Planning.** 2 hours fall.
The principles of good design in home grounds; 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.
- (S) LA 290. **Lower-Division Landscape Design.** 2 hours winter.
Design of city and suburban residence properties and other design problems of three acres or less. Prerequisite: LA 279 or consent of instructor. Martel.

Upper-Division Courses

- (S) LA 326. **Plant Materials.** 3 hours spring.
Trees, shrubs, vines, and perennials and their uses in plant composition. Martel.
- (S) LA 359. **Maintenance and Construction.** 3 hours winter.
Maintenance of private and public landscapes; construction of landscape features and structures. Prerequisite: LA 279 or consent of instructor. Solberg.

Library

(See EDUCATION)

Mathematics

Associate Professor: HOPKINS.

Lower-Division Courses

- (P) Mth 10. **Elements of Algebra.** 4 hours fall.
For students entering with less than one year of algebra. Open to others only on recommendation of the department. May not be taken for credit after completion of higher courses in college mathematics.

- (P) Mth 100. **Intermediate Algebra.** 4 hours winter.
Prerequisite: one year of high-school algebra, or Mth 10.
- (P) Mth 101. **College Algebra.** 4 hours fall.
Prerequisite: one and one-half years of high-school algebra, or Mth 100.
- (P) Mth 102. **Plane Trigonometry.** 4 hours winter.
Prerequisite: Mth 101.
- (P) Mth 103. **Analytic Geometry.** 4 hours spring.
Prerequisite: Mth 102.
- (P) Mth 201, 202, 203. **Differential and Integral Calculus.** 4 hours each term.
Standard sequence for students of science and engineering. Prerequisite: Mth 103.

Upper-Division Courses

- (U) Mth 412, 413, 414. **Higher Algebra.** (G) 3 hours each term.
Basic concepts of algebra, theory of equations, matrices, linear transformations, quadratic forms. Prerequisite: calculus or consent of instructor.
- (U) Mth 425. **Elements of Statistical Methods.** (g) 3 hours winter.
A basic course in statistical analysis. Presentation of data; sampling theory; tests of significance; analysis of variance and covariance; regression and correlation; sequential analysis; design of experiments; distribution-free techniques. Prerequisite: one year of high-school algebra; junior standing or consent of instructor. Students who have received credit for Mth 301, 302, 303 may not receive credit for Mth 425. Hopkins.

See also: Engineering

Music

Professor: STEHN.

Assistant Professors: GUSTAFSON, SMITH.

Instructor: TURRELL.

Lower-Division Courses

- (P) Mus 111, 112, 113. **Music Theory.** 3 hours each term.
A course which provides a thorough groundwork in the elements of music science—melodic, harmonic, and rhythmic—taught through the analysis of the styles of Bach, Haydn, Mozart, Beethoven, and other eighteenth- and nineteenth-century composers. Stehn.
- (P) Mus 190. **Applied Music.** 1 hour any term.
Freshman year. Individual instruction in organ, piano, violin, cello, harp, voice, orchestral and band instruments. Prerequisite: qualifying examination. Stehn.
- (P) Mus 196. **Orchestra.** 1 hour any term.
Six hours maximum credit. Stehn.
- (P) Mus 290. **Applied Music.** 1 to 2 hours any term.
Sophomore year. Continuation of Mus 190, which is prerequisite. Stehn.

Upper-Division Courses

- (U) Mus 360, 361, 362. **History of Music.** 3 hours each term.
A study of the development of music from primitive times to the present day. Turrell.

- (C) Mus 381. **Music Fundamentals. (Introductory Course)** 3 hours fall.
A musical background for the elementary-school teacher; singing children's song material; acquiring good vocal habits; reading music; experiencing simple problems in rhythm; listening to music; analyzing its forms; learning keys, scales, intervals, primary chords, and their application to the piano keyboard. Gustafson, Smith.
- (C) Mus 382. **Music Fundamentals. (Music Reading and Ear Training)** 3 hours winter.
Acquiring more skill in reading song material; more advanced rhythmic patterns; major and minor modes; two-, three-, and four-part music; chording; ear training; dictation. Gustafson, Smith.
- (C) Mus 383. **Music Fundamentals. (Music Education)** 3 hours spring.
The close relationship between music education and other areas in education; planning a music environment; directing the experiences of children in music, studying principles and procedures in teaching music skills. Gustafson, Smith.
- (U) MuE 370, 371. **Music for Elementary Teachers.** 3 hours fall and winter.
Music activities for the elementary teacher. An introductory sequence designed to build basic musicianship through experiences related to the teaching of music in the elementary-school classroom. The two terms must be taken in sequence. Required of majors in elementary education. Gustafson, Smith.
- (U) MuE 372. **Music Methods for Elementary Teachers.** 3 hours spring.
Experiences in teaching the various music activities in the elementary schools. Required of majors in elementary education. Prerequisite: MuE 370, 371 or consent of instructor. Gustafson, Smith.
- (P) Mus 390. **Applied Music.** 1 to 3 hours any term.
Junior year. Individual instruction in organ, piano, violin, cello, harp, voice, orchestral and band instruments. One or two lessons a week. Attendance at class sessions and recitals required. Prerequisite: Mus 290 or equivalent and qualifying examination for upper-division standing. Stehn.

Philosophy

Associate Professor: NEWHALL.

Assistant Professor: POLONOFF.

Lower-Division Courses

- (P) Phl 201. **Elementary Logic.** 3 hours fall.
An introduction to the study of reasoning. How to recognize, analyze, criticize, and construct the main types of argument and proof. Polonoff.
- (P) Phl 202. **Problems of Philosophy.** 3 hours winter.
An introduction to the study of some of the persistent problems of philosophy. Polonoff.
- (P) Phl 203. **Elementary Ethics.** 3 hours spring.
An introduction to the philosophical study of morality, e.g., right and wrong, free will and determination, morals and society, etc. Polonoff.

Upper-Division Courses

- (U) Phl 331, 332, 333. **Contemporary Philosophy.** 2 hours each term.
Some common phases of recent philosophical theory. No prerequisite, but not open to lower-division students. Newhall.

Physical Education

(See HEALTH AND PHYSICAL EDUCATION)

Physics

Assistant Professor: TAKEO.

Instructor: LYNOTT.

Lower-Division Courses

- (P) Ph 161. **Rudiments of Photography.** 2 hours spring.
Intended for students interested in photography as an avocation. One lecture; 1 three-hour laboratory period.
- (S) Ph 191. **Rudiments of Meteorology.** 1 hour winter.
A descriptive treatment of meteorological phenomena including winds, air masses, fronts, clouds, the wave cyclone, precipitation. Lynott.
- (P) Ph 201, 202, 203. **General Physics.** 4 or 5 hours each term.
Standard college physics. Three lectures; 1 three-hour laboratory period. Prerequisite: Mth 102, or consent of instructor.

Upper-Division Courses

- (U) Ph 431, 432, 433. **Electricity and Electronics.** (g) 4 hours each term.
Electrostatics; electrolytics; d-c and a-c currents; electro-magnetism; electronics; circuit theory; ultra-high frequencies, high-voltage generators; elementary electric particles. Takeo.

Political Science

Assistant Professors: DIXON, WIDMAYER.

Instructor: HAGGARD.

Upper-Division Courses

- (U) PS 311. **Principles of Political Science.** 3 hours fall.
Analysis of major concepts underlying the study of politics and administration, designed to provide a systematic introduction to the field for political science majors. Haggard.
- (U) PS 314, 315, 316. **Problems of State and Local Government.** 3 hours each term.
A study of the major problems in the organization and function of state, county, city, and other local governments, with special attention to Oregon. Dixon.
- (P) PS 320, 321. **World Politics.** 3 hours fall and winter.
Basic principles of the modern state system; analysis of factors making for conflict and cooperation. Emphasis, during second term, on the foreign policies of the leading states, exclusive of the United States. Widmayer.
- (U) PS 411, 412, 413. **Public Administration.** (G) 3 hours each term.
Study of the organization and activities of government in carrying out public policy, with special reference to the Federal government and to the government of Oregon.
- (U) PS 414. **Political Parties and Election Problems.** (G) 3 hours winter.
The nature, organization, and operation of political parties; election and recall of officers; proportional representation; initiative and referendum; civil-service reform. Haggard.
- (U) PS 415. **Public Opinion.** (G) 3 hours spring.
Study of the methods of formation and control of public opinion. Haggard.

- (U) PS 422. **International Law.** (G) 3 hours spring.

Introduction to international public law. Forces influencing its development; the nature and sources of international law; codification; the International Court of Justice. Rules of international law respecting more important subjects. Widmayer.

Psychology

Professors: BECK, BERNARD, COURTS.

Associate Professors: BOYD, BRODY, CROOKS, DAVIS.

Assistant Professor: AIKIN.

Instructor: SULLIVAN.

Lower-Division Courses

- (P) Psy 201, 202. **General Psychology.** 3 hours each term.

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

Fall: Psy 201

Winter: Psy 201, 202

Spring: Psy 201, 202

- (S) Psy 205. **Applied Psychology.** 3 hours winter or spring.

Potential contributions of psychology to broad fields of American civilization and social progress; applications in education, industry, business, and other professions. Prerequisite: Psy 202.

Upper-Division Courses

- (P) Psy 311. **Human Development.** 3 hours any term.

Consideration of the child as an individual and as a member of social groups. Included is a study of the kinds of home and school environment essential to the best intellectual, physical, and emotional development of the child. Prerequisite: Psy 201. Aikin, Sullivan.

- (S) Psy 371. **Quantitative Methods.** 3 hours winter.

Fundamentals of experimentation; design and conduct of experiments; analysis and interpretation of data; reporting of research in human behavior. Prepares for critical reading of literature of research in psychology, social science, business, education, and home economics. Not primarily computational. Prerequisite: Psy 202.

- (U) Psy 405. **Reading and Conference.** Terms and hours to be arranged.

- (S) Psy 411. **Mental Hygiene.** (g) 3 hours spring.

Principles and application of mental hygiene to problems of the individual in home, school, and occupational situations. Prerequisite: Psy 202 or Psy 207. Bernard.

- (U) Psy 421, 422. **Principles and Methods of Psychological Assessment.** (g) 3 hours fall and winter.

Application of psychological methods to the study of the individual; survey of intelligence, achievement, special-aptitude, and personality tests; theoretical and statistical background for interpretation of test scores; training in diagnosis of actual cases. Must be taken in sequence. Prerequisite: General Psychology and consent of instructor. Statistics course is desirable. Boyd.

- (U) Psy 424, 425. **Individual Intelligence Testing.** (G) 3 hours fall and winter.

Supervised practice in the administration and scoring of individual and group intelligence tests and various tests of achievement, special aptitude, and personality. 2 three-hour laboratory periods. Prerequisite: Psy 421 previously or concurrently or consent of instructor. Boyd.

- (S) Psy 431. **Industrial Psychology.** (g) 3 hours winter.

Psychological characteristics of employees and psychological requirements of occupations; employee appraisal through development and use of evaluating instruments and recording of evaluations; psychological factors involved in maintaining employee fitness and morale. Prerequisite: Psy 202 or consent of instructor. Davis.

- (U) Psy 450. **Abnormal Psychology.** (G) 3 hours winter.

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

- (U) Psy 460. **Developmental Psychology I: Infancy and Childhood.** (g) 3 hours fall.

Development of behavior and psychological activity through the prenatal period, infancy, childhood, adolescence, maturity, and old age. Changes of intelligence, motor capacity, emotional response, language, and social behavior. Emphasis on social influence. Beck.

- (U) Psy 461. **Developmental Psychology II: Adolescence and Maturity.** (g) 3 hours winter.

Continuation of Psy 460. Beck.

- (S) Psy 474. **Psychological Tests and Testing.** (g) 3 hours fall.

Theory and practice of test administration, scoring, and interpretation; administration, scoring, and interpretation of individual tests in fields of mental abilities, special aptitudes, interests, personality, and nonacademic achievement; administration, scoring, and interpretation of group tests in the same areas. Psy 474 must be taken before either Psy 475 or Psy 476. Prerequisite: Psy 371 or equivalent, or consent of instructor. Crooks.

Graduate Courses

- (U) Psy 507. **Seminar: Personal Adjustment and Counseling.** 3 hours winter.

This seminar is designed to cut across professional lines and to afford a discussion of counseling problems common to psychologists, educators, social workers, public health nurses and ministers. Primary emphasis will be on the counseling interview. Brody.

- (C) Psy 519. **Research Studies in Child Development.** 3 hours fall.

Study of current research studies and experimental programs concerned with the physical, emotional, intellectual, and social development of children. Individual studies by students, case studies and model experimental projects with children in the laboratory school will supplement library resources. Brody.

- (C) Psy 520. **Psychology of Learning.** 3 hours spring.

Introduction to the major theories of learning current among psychologists doing research in the field. Experimentation and research underlying these theories will be studied and applied to modern educational practices. Includes learning theory and practices at all age levels through adulthood. Brody.

- (U) Psy 521, 522, 523. **Systematic Psychology.** 2 hours each term.

Contemporary systems; Gestalt psychology, purposive behaviorism, topological psychology, psychoanalysis, etc. Aims of psychology, nature of explanation, and functions of abstractions in psychology. Courts.

See also: **Courses Offered Outside Portland Center**

Education
Sociology

Public Speaking

(See SPEECH AND DRAMA)

Recreation

(See HEALTH AND PHYSICAL EDUCATION)

Religion

Professor: MEANS.

Upper-Division Courses

- (U) R 421. **Religion in Contemporary Society.** (g) 3 hours fall.
The relation of religion to social institutions. Religion and the state, totalitarian and democratic. The social teachings of the various churches and religious groups. The religious situation today. Criteria for evaluating religion as a social force.
- (S) R 462. **History of Great Religions.** 3 hours winter.
Comparative study of religions that command a large following today, such as Hinduism, Buddhism, Confucianism, Judaism, Christianity, and Islam.
- (S) R 463. **Psychology of Religion.** 3 hours spring.
Bearing of psychology on religious thought and action, both past and present; psychology of prayer, conversion, faith, mysticism, and worship.

Secretarial Science

(See BUSINESS EDUCATION AND SECRETARIAL SCIENCE)

Sociology and Social Work

Associate Professors: DRUM, JAMES.

Instructor: DANILSON.

Sociology

Lower-Division Courses

- (P) Soc 204, 205, 206. **General Sociology.** 3 hours each term.
The basic findings of sociology concerning the individual, culture, group life, social institutions, and factors of social change. Prerequisite: sophomore standing or consent of instructor.
- (P) Soc 212. **General Sociology.** 3 hours spring.
An abridgement of Soc 204, 205, 206. Not open to students who have taken Soc 204, 205, 206. Designed for engineering and business administration students.

Upper-Division Courses

- (U) Soc 327. **Introduction to Social Research.** 3 hours spring.
First term: the development of social research; the nature of scientific inquiry and the basic methods and techniques; examination of representative sociological studies from the standpoint of methodology. Prerequisite: Soc 204, 205, 206 or consent of instructor.
- (P) Soc 334, 335. **Social Psychology.** 3 hours fall and winter.
Analysis of the psychological and sociological processes involved in personality formation and in various forms of group behavior. Particular attention to origin, function, ideologies, membership, and leadership. Prerequisite: Soc 204, 205 or Psy 201, 202.

- (P) Soc 338. **Marriage and the Family.** 3 hours any term.
The growth and development of the family throughout its life cycle. The family and personality development, dating, courtship, selection of marital partner, engagement, wedding and honeymoon, adjustment processes in marriage and family living, family crises. Prerequisite: junior standing or consent of instructor. Drum.
- (U) Soc 346. **Social Case Methods Applied to Nursing.** 3 hours winter.
History and current concepts of case-work theory; social problems related to illness; principles of interviewing; relationships between nurses and social workers. Offered at University of Oregon Medical School.
- (E) Soc 347. **Social Welfare Resources and Organization.** 3 hours any term.
Designed to create an awareness of characteristics of problems brought to social agencies; of processes involved in planning services; of inter-agency relationships and the need for multidiscipline approach in providing services for people. Field trips, speakers, films and projects are used as teaching aids. Offered at University of Oregon Medical School. Danilson.
- (U) Soc 407. **Seminar: Penological Systems.** (G) 3 hours spring.
Drum.
- (U) Soc 407. **Seminar: Social Welfare Resources and Organization.** (G) 3 hours spring.
The various types of social welfare resources which the nurse can use to help patients with social problems; methods of organizing these resources for the meeting of human needs. Drum.
- (U) Soc 416, 417. **Criminology and Delinquency.** (G) 3 hours fall and winter.
The nature and extent of delinquency and crime as forms of deviant social behavior; contributing factors; current prevention and treatment programs. Prerequisite: General Sociology or General Psychology or Principles of Sociology or consent of instructor. Drum.
- (U) Soc 421. **Social Change.** (G) 3 hours spring.
Sociological analysis of purposive social change as manifest in various programs of social reform and reconstruction. Doctrines examined in relation to the contexts, historical and contemporary, out of which they emerged and have evolved. Prerequisite: 9 hours in sociology or consent of instructor. James.
- (U) Soc 436. **Social Control.** (G) 3 hours winter.
Techniques and agencies by which the behavior of crowds, classes, associations, and publics is controlled. Prerequisite: Soc or Psy 334, 335 or consent of instructor. James.
- (U) Soc 440. **Group Dynamics.** (G) 3 hours fall.
Analysis of the dynamics of group interaction; significance and applications of the principles of group behavior for the group worker. Prerequisite: 9 hours in sociology or psychology; or consent of instructor. James.

Social Work

(Open to students in other fields)

Graduate Courses

- (U) SW 507. **Seminar.** Terms and hours to be arranged.
- (U) SW 511, 512. **Social Case Work.** 3 hours fall and winter.
Generic concepts of case work practices in different agency settings; diagnosis and analysis of cases, treatment problems. Drum.
- (U) SW 516. **Personality Development.** 2 hours fall.
The growth of the individual with emphasis on emotional factors; the integration of psychiatric theory with case work; social factors that influence development; special lectures and case studies. Drum.

- (U) SW 517. **Personality Development.** 2 hours winter.
Emotional problems commonly met in social agencies; the role of the psychiatrist and caseworker in the study and treatment of the patient; special lectures and case studies. Prerequisite: SW 516 or consent of instructor. Drum.
- (U) SW 556. **Medical Information for Social Workers (and other Professionals).** 2 hours spring.
Social factors in common disabling illnesses; the integration of the work of the physician and the caseworker in dealing with health problems; the role of the physician in the treatment of the social and physical problems of the patient. Drum.
- (U) SW 572. **Community Organization for Social Welfare.** 3 hours spring.
Problems involved in bringing about an adjustment between social welfare needs and resources; understanding the social forces of the community; methods used by public and private agencies to meet these needs; interpretation of agency problems to the community. Drum.
- (U) SW 580. **Introduction to Public Welfare.** 3 hours fall.
History, philosophy and current theories of social welfare work; development of public and voluntary programs of social services.
- (U) SW 582. **Administration of Social Insurances.** 3 hours winter.
The social insurance movement in the United States and selected foreign countries. Present legislation; administrative problems in unemployment compensation and in insurance for the aged, survivors, disabled, and sick. Prerequisite: SW 580 or consent of instructor.

Speech and Drama

Associate Professors: GAUPP, LILLYWHITE, ROBERTS, SOMERVILLE.

Instructor: McANALLEN.

Lower-Division Courses

- (P) Sp 111, 112, 113. **Fundamentals of Speech.** 3 hours each term.
Projects in extempore speaking. Primary emphasis on content and organization, with attention also to the speaking situation, effective delivery, audience motivation, and language of the speech.
Fall: Sp 111
Winter: Sp 111, 112
Spring: Sp 111, 113
- (E) Sp 225. **Public Speaking for Business and Professional Men and Women.** 2 hours fall.
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 ways of reaching these motives. Roberts.
- (S) Sp 231. **Parliamentary Procedure.** 3 hours spring.
Rules of parliamentary procedures; practice in application; forming temporary and permanent organizations; preparation of constitutions and by-laws. Students serve as chairman and secretary and learn how to conduct meetings efficiently. Roberts.
- (U) Sp 241. **Fundamentals of Broadcasting.** 2 hours fall.
General survey of broadcasting, including history, growth, social aspects, laws and policies, station and network organization, programming, the advertiser, the listener, public interest, standards of criticism, comparative broadcast systems, and international broadcasting and propaganda. Somerville.

- (U) Sp 267, 268, 269. **Appreciation of Drama.** 2 hours each term.
Study of design, acting, playwriting, criticism. Appreciation of drama, motion picture, and radio plays as art forms. Gaupp.

Upper-Division Courses

- (P) Sp 322. **Discussion.** 3 hours winter.
Theory of discussion as it applies to improved interpersonal relations and cooperative problem-solving. Practice in typical applications of discussion in community affairs, in business, and in teaching and other professions. Prerequisite: Sp 111 or consent of instructor. Roberts.
- (U) Sp 351, 352, 353. **Technique of Acting.** 3 hours each term.
Principles of acting technique. Problems in the analysis and presentation of character. Registration by consent of instructor only. Gaupp.
- (U) Sp 364, 365, 366. **Play Direction.** 3 hours each term.
Sources of dramatic material, choice of play, casting and rehearsal of players, production organization. Practical experience in directing. Six or more laboratory periods. Registration by consent of instructor only. McAnallen.
- (U) Sp 370. **Phonetics.** 3 hours fall.
Study of sounds used in speech. Determination of sounds; their symbolic nature; their production; physical and psychological problems involved in their perception; sectional differences.
- (U) Sp 371. **Speech Science.** 3 hours winter.
A study of the anatomy, psychology, and physics of speech.
- (U) Sp 448. **Radio and Television and the Public.** (G) 3 hours spring.
The influence and importance of broadcasting as a social, political, and cultural force; the development of broadcasting; commercial versus public-service broadcasting; the rights and duties of listeners; public opinion and propaganda influence. Somerville.
- (U) Sp 481, 482. **Speech Defects and Disorders.** (G) 3 hours winter and spring.
First term: symptoms and causes of speech abnormalities; emphasis on diagnosis and basic pathology of articulatory defects and delayed speech, with discussion of methods of treatment limited to general principles. *Second term:* emphasis on speech problems resulting from cleft-palate and cerebral-palsied speech, aphasia, stuttering, and neurological speech disorders. Must be taken in sequence. Prerequisite: Sp 370; Sp 481 prerequisite for Sp 482. Registration by prior consent of instructor only. Winter: Lillywhite.
- (U) Sp 484, 485, 486. **Clinical Practice in Speech Correction.** (G) 2 hours each term.
Actual case experience for student clinicians in the diagnosis and treatment of speech-defective children and adults, under supervision. Must be taken in sequence but any part is available any term. Registration by prior consent of instructor only.
- (U) Sp 487. **Rehabilitation of the Hard-of-Hearing.** (G) 3 hours winter.
First term: the nature of hearing; hearing loss and speech involvements. *Second term:* auditory tests and their interpretation; hearing aids; lip reading and auditory training.
- (C) Sp 492. **Principles and Techniques of Speech Correction.** (g) 3 hours winter.
Designed to survey the field of speech defects and to acquaint classroom teachers with an understanding of typical speech defects among children and

basic techniques for their prevention and correction. Emphasis placed on those areas of speech correction to aid classroom teachers including analysis of speech mechanics, recognition of defects, formation of sounds, testing devices, and parent cooperation.

Graduate Courses

- (U) Sp 507. **Seminar and Practicum in Aphasia.** 3 hours fall.

A course designed for persons who have had considerable training and clinical experience in speech correction. Study of causes, methods of diagnosis and aphasia therapy. Course includes about twenty clock hours of supervised clinical practice with aphasia patients. Registration by prior consent of instructor only. Lillywhite.

- (U) Sp 507. **Seminar and Practicum in Cerebral Palsy.** 3 hours spring.

A course designed for persons who have had considerable training and clinical experience in speech correction. Study of causes, methods of diagnosis and speech therapy for the Cerebral Palsied. Course includes about twenty clock hours of supervised clinical practice with Cerebral Palsied patients. Registration by prior consent of instructor only. Lillywhite.

Portland Extension Center

Administration and Staff

JOHN R. RICHARDS, Ph.D., Chancellor, Oregon State System of Higher Education.

JAMES W. SHERBURNE, Ph.D., Dean, General Extension Division.

JAMES C. CAUGHLAN, Ph.D., Assistant Dean, General Extension Division; Director, Portland Extension Center, Portland Summer Session.

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KATE D. HUMESTON, Secretary to the Dean, General Extension Division.

DOROTHY GUMESON, Secretary of Summer Sessions, General Extension Division.

KENNETH W. BUTLER, B.A., Reference and Audio-Visual Librarian, General Extension Division.

LEORA F. LARIVIERE, B.L.S., Circulation Librarian, General Extension Division.

Faculty

- MARIAN CUSHING AIKIN, M.Sc., Assistant Professor of Family Life, Oregon State College.
B.Sc. (1939), Nebraska; M.Sc. (1943), Iowa State.
- FLOYD B. ALBIN, Ed.D., Professor of Education; Head, Department of Education and Psychology; Director of Teacher Education, Oregon College of Education.
B.A. (1932), Willamette University; M.A. (1940), Washington; Ed.D. (1955), Stanford.
- HARRY T. ALLAN, J.D., Instructor in Business Administration, Oregon State College.
B.A. (1952), Washington and Jefferson College; B.S. (1953), Massachusetts Institute of Technology; J.D. (1956), University of Chicago.
- FREEMAN B. ANDERSON, Ph.D., Instructor in English, Portland State College.
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- WESLEY C. BALLAINE, Ph.D., Professor of Business Administration; Director, Bureau of Business Research, University of Oregon.
A.B. (1927), M.B.A. (1931), Washington; Ph.D. (1940), Chicago.
- SHIRLEY BARBER, M.Ed., Assistant Professor of Business Education, Oregon State College.
B.S. (1950), Oregon; M.Ed. (1951), Oregon State.
- LESTER F. BECK, Ph.D., Professor of Psychology, Portland State College and Portland Extension Center.
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- HAROLD W. BERNARD, Ph.D., Professor of Education, General Extension Division.
A.B. (1930), Spokane University; M.A. (1933), Stanford; Ph.D. (1938), Northwestern.
- JUDAH BIERMAN, Ph.D., Associate Professor of English, Portland State College and Portland Extension Center.
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- ARTHUR VINCENT BIGGS, LL.B., Assistant Professor of Business Administration, Oregon State College.
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- ALMA I. BINGHAM, M.A., Instructor in Education, Portland State College.
A.B. (1948), UCLA; M.A. (1951), Teachers College, Columbia.
- EDWIN R. BINGHAM, Ph.D., Assistant Professor of History, University of Oregon.
B.A. (1941), M.A. (1942), Occidental; Ph.D. (1951), UCLA.
- JEAN PHYLLIS BLACK, Ph.D., Librarian; Associate Professor of History, General Extension Division.
B.A. (1924), Mount Holyoke; M.A. (1925), Ph.D. (1928), Michigan; B.S. in L.S. (1932), Washington.
- *ROBERT W. BLAKELEY, M.S., Instructor; Speech Clinician, Portland Extension Center.
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- W. ARTHUR BOGGS, Ph.D., Associate Professor of English, Portland State College and Portland Extension Center.
B.A. (1939), M.A. (1941), Southern California; Ph.D. (1950), California.
- ARTHUR GEORGE BRISTOW BOUQUET, M.S., Professor Emeritus of Horticulture, Oregon State College.
B.S. (1906), Oregon State; M.S. (1930), Cornell.

* On leave of absence 1957-58.

- HERBERT E. BOWMAN, Ph.D., Assistant Professor of Slavic Languages, University of Oregon.
B.A. (1938), Pennsylvania; Cert. (1939), Lille; M.A. (1941), Ph.D. (1950), Harvard.
- RALPH L. BOYD, Ph.D., C.P.A., Professor of Business Administration, Portland Extension Center and Portland State College.
B.Ed. (1930), Illinois State Normal; M.S. (1932), Ph.D. (1942), Illinois; C.P.A. (1933), Illinois, (1945), Ohio.
- ROBERT D. BOYD, Ph.D., Associate Professor of Psychology, University of Oregon.
B.A. (1938), Linfield; M.A. (1941), Southern California; M.A. (1947), Ph.D. (1953), Michigan.
- DAVID S. BRODY, Ph.D., Associate Professor of Psychology; Director of Child Guidance Clinic, Oregon College of Education.
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- FREDERICK J. BURGESS, M.S., Instructor in Civil Engineering; Associate Sanitary Engineer, State Board of Health, Oregon State College.
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- KENNETH W. BUTLER, B.A., Instructor in Library Science; Reference and Audio-Visual Librarian, General Extension Division.
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- ROBERT CAMPBELL, Ph.D., Assistant Professor of Economics, University of Oregon.
A.B. (1947), Ph.D. (1952), California; B.S. (1950), U.S. Merchant Marine Academy.
- TILMAN CANTRELL, M.A., Assistant Professor of Sociology, Oregon State College.
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- MARY A. CHOATE, Ed.D., Assistant Professor of Education, University of Oregon.
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- QUENTIN D. CLARKSON, Ph.D., Instructor in Biology, Portland State College and Portland Extension Center.
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- RAYMOND W. COOPEY, M.S., Instructor in General Science, Portland State College.
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- DALE E. COURTNEY, M.A., Instructor in Geography, Portland State College and Portland Extension Center.
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* On leave of absence, spring term, 1956-57.

- JACK A. CULBERTSON, Ph.D., Assistant Professor of Education, University of Oregon.
A.B. (1943), Emory and Henry; M.A. (1946), Duke; Ph.D. (1955), California.
- CARL E. W. L. DAHLSTROM, Ph.D., Professor of English, Portland State College and Portland Extension Center.
A.B. (1920), A.M. (1921), Ph.D. (1928), Michigan.
- THELMA DANILSON, M.M.S., Instructor in Social Case Methods, Department of Nursing Education, University of Oregon Medical School.
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- JOHN O. DART, Ph.D., Associate Professor of Geography, Portland State College and Portland Extension Center.
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- MILTON KEITH DAVIS, Ph.D., Associate Professor of Psychology, Portland Extension Center.
B.A. (1948), Reed; M.S. (1949), Ph.D. (1953), Purdue.
- *NAOMI S. DIETZ, M.A., Assistant Professor of Art Education, Portland State College and Portland Extension Center.
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- BROCK DIXON, Ph.D., Assistant Professor of Political Science, Portland State College and Portland Extension Center.
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- BASIL DMYTRYSHYN, Ph.D., Assistant Professor of History, Portland State College and Portland Extension Center.
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- WILL DRUM, M.A., J.D., Associate Professor of Sociology and Social Work, Portland Extension Center and University of Oregon.
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- SAVILLE T. FORD, M.B.A., Assistant Professor of Business Administration, University of Oregon.
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* Resignation effective June 30, 1957.

- HOYT CATLIN FRANCHERE, Ph.D., Professor of English, Portland State College and Portland Extension Center; Chairman, Division of Humanities, Portland State College.
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- PERCY MARGARET GILL, M.S., Associate Professor of Physical Education for Women, Oregon State College.
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B.S. (in E.E.) (1907), E.E. (1908), B.S. (in M.E.) (1908), M.E. (1909), M.S. (in E.E.) (1909), Oregon State.
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- JACK V. HALL, Ed.D., Assistant Professor of Elementary Education, Oregon State College.
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- JAMES S. HART, Ph.D., Assistant Professor of English, Portland State College and Portland Extension Center.
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- ARTHUR C. HEARN, Ed.D., Associate Professor of Education, University of Oregon.
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- FREDERICK H. HEIDEL, B.S., B.F.A., Assistant Professor of Art, Portland State College.
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- JOSEPH V. HOLLAND, D.Ed., Associate Professor of Physical Education, Portland State College and Portland Extension Center.
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B.S. (1923), Ph.D. (1939), Minnesota.
- CARL E. HOPKINS, Ph.D., Associate Professor of Public Health and Preventive Medicine, University of Oregon Medical School.
A.B. (1933), Dartmouth College; A.M. (1935), Ph.D. (1948), Harvard.
- RUTH E. HOPSON, Ph.D., Associate Professor of General Science, General Extension Division and Portland State College.
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- ANNASUE HUGHES, B.L.S., Instructor in Library Science; Reference Librarian, General Extension Division.
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- HOWARD IMPECOVEN, Ed.D., Assistant Professor of Education, General Extension Division.
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- JOHN JAMES, Ph.D., Associate Professor of Sociology, Portland State College and Portland Extension Center.
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- *DOROTHY O. JOHANSEN, Ph.D., Associate Professor of History, Portland Extension Center.
B.A. (1933), Reed College; M.A. (1935), Ph.D. (1941), Washington.
- CLYDE R. JOHNSON, Ph.D., Associate Professor of Chemistry, Portland State College and Portland Extension Center.
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- LEEVERN R. JOHNSON, M.B.A., Assistant Professor of Business Administration, University of Oregon.
B.A. (1939), Iowa State Teachers; M.B.A. (1948), Denver.

* Resigned June 30, 1956.

- LLOYD K. JOHNSON, Ph.D., Assistant Professor of Science, Oregon College of Education.
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- STANLEY L. JOHNSON, Ph.D., Assistant Professor of English, Portland State College and Portland Extension Center.
B.A. (1942), Utah; Ph.D. (1954), Southern California.
- MILDRED OLIVE KANE, M.A., Assistant Professor of Education; Supervisor of Teaching, Oregon College of Education.
B.A. (1935), Oregon; M.A. (1942), Teachers College, Columbia.
- MITCHELL W. KERR, Ph.D., Assistant Professor of Social Science, Portland State College.
B.A. (1942), Oregon; M.A. (1944), Ph.D. (1951), Stanford.
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Other General Extension Division Services

The General Extension Division is the agency of the Oregon State System of Higher Education by which the various schools comprising the system serve the people of Oregon through resident extension classes, short courses, correspondence study, visual instruction, radio and television programs, summer sessions, and special activities.

Department of State-Wide Services. These services consist of State-Wide evening classes, correspondence study courses, conferences, and workshops. Any community in Oregon may become an extension class center if a satisfactory meeting place is provided and sufficient enrollment is guaranteed to cover actual operating costs. A schedule of correspondence courses is available to enable students to continue their program of study when not in residence. Conferences are conducted for business and professional groups. In-service institutes and workshops are organized to assist school districts.

Visual Instruction. The Department of Visual Instruction of General Extension Division provides glass and film slides, microscopic slides, and 16 mm. motion picture films suitable for use by schools, community clubs, and other organizations. A special catalog is published listing materials available. Located on the campus of Oregon State College at Corvallis, the department is maintained jointly by General Extension Division and Federal Cooperative Extension Service.

Radio Station KOAC. Station KOAC is Oregon's state-owned station of which the State Board of Higher Education is managing agency. The station is located at Corvallis on the campus of Oregon State College, the licensee and operator of the physical plant. General Extension Division directs the program service. Program talent is drawn from Oregon State College, University of Oregon, Portland State College, the three Oregon Colleges of Education, Portland Extension Center and from various departments of state government. Many other public agencies, organizations and individuals contribute frequently to broadcasts. KOAC operates with 5,000 watts power on a frequency of 550 kilocycles by authority of the Federal Communications Commission. The station is operated in the interest of the Oregon public and programs are free from commercialism. Program schedules are issued periodically and will be furnished on request. Studios are located at Corvallis, Eugene, Monmouth, Portland, and Salem. "Tapes for Teaching" are provided for schools of Oregon as a special service.

Portland Summer Session. The summer session is a day-time program only, offering a selection of both graduate and undergraduate courses from University of Oregon, Oregon State College, the three Oregon Colleges of Education, and Portland State College. Particular emphasis is placed on elementary and secondary teacher education.

Institute of International Affairs. The institute serves to effect close cooperation with national, state and civic organizations related to international affairs, and as a distribution point for U.S. State Department and UNESCO publications.

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M.D. (1926), Oregon; LL.D. (1946), Portland. With System since 1927, dean, Medical School, since 1943.
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- HERBERT ARNOLD BORK, M.S., C.P.A., Comptroller and Bursar, State System of Higher Education; Dean; Professor.
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- JOHN FRANCIS CRAMER, D.Ed., President, Portland State College, Professor.
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- (WILLIAM) TRAVIS CROSS, B.A., Assistant to the Chancellor and Director of Information; Associate Professor.
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- ELMO NALL STEVENSON, Ed.D., President, Southern Oregon College; Professor.
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- AUGUST LEROY STRAND, Ph.D., President, Oregon State College; Professor.
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- O. MEREDITH WILSON, Ph.D., President, University of Oregon; Professor.
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