

GENERAL EXTENSION DIVISION

**BULLETIN**



**Portland  
Extension  
Center**

1633 S. W. Park Avenue  
Portland, Oregon

**EVENING  
CLASSES**

CATALOG ISSUE

**1960-61**

OREGON STATE SYSTEM of HIGHER EDUCATION

GENERAL EXTENSION  
DIVISION

BULLETIN

## Portland Extension Center

### Evening Classes

1960-61

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

1633 S. W. Park Avenue  
Portland 1, Oregon  
Telephone CAPITOL 6-6601

General Extension Division

### BULLETIN

Oregon State System of Higher Education

1633 S. W. Park Ave.

Portland 1, Ore.

PORTLAND SERIES NO. 86

MAY 20, 1960

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OREGON STATE SYSTEM  
OF HIGHER EDUCATION

**COLLEGE CENTER BUILDING**

- Bookstore
- Cafeteria
- Snack Bar
- Varied other facilities

**STATE HALL**

New classroom building (SH following room number in class schedule indicates class meets in this building)

**BUSINESS OFFICE**

1724 S. W. Park Ave.

**REGISTRAR'S OFFICE**

1734 S. W. Park Ave.

**OLD MAIN**

Original classroom building (OM following room number in class schedule indicates class meets in this building)

**PORTLAND EXTENSION CENTER ADMINISTRATIVE OFFICES**

1633 S. W. Park Ave. (across the Parkway from Old Main)

**MUSEUM ART SCHOOL**

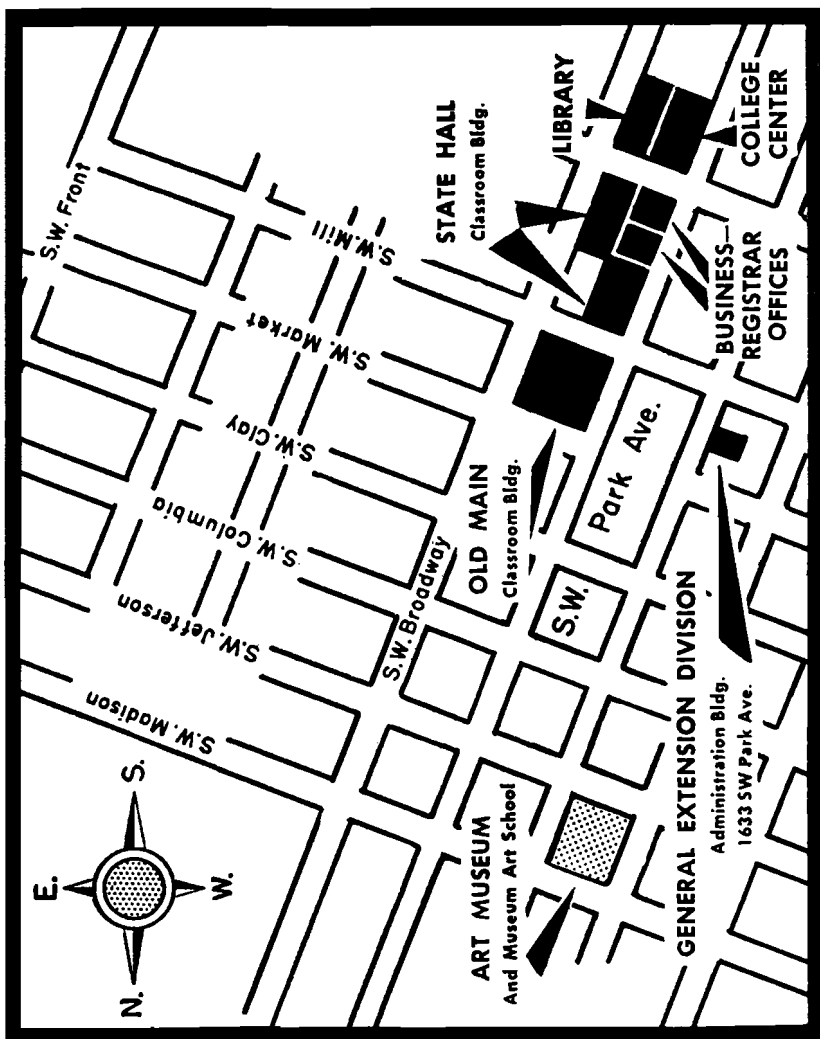
Portland Art Museum building (S. W. Madison St. and Park Ave.)

**LIBRARY BUILDING**

S. W. Broadway at Montgomery St.

**OFF-CAMPUS CLASSES**

(Check catalog and class schedule for location of classes not meeting in either of the two regular classroom buildings)



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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 Oregon State College at Corvallis, the University of Oregon at Eugene, Portland State College at Portland, Oregon College of Education at Monmouth, Southern Oregon College at Ashland, Eastern Oregon College at La Grande, and Oregon Technical Institute at Klamath Falls. The Medical, Dental, and Nursing 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 Ashland, Corvallis, Eugene, La Grande, Monmouth, and Salem.

At Oregon College of Education, Southern Oregon College, and Eastern Oregon College, students may complete major work in teacher education or general studies or enroll in a preprofessional program.

Portland State College offers major work in general studies and selected liberal arts and professional fields as well as certain preprofessional programs.

At the University and Oregon State College, 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.

Terminal courses in technical and semi-professional areas are offered at Oregon Technical Institute.

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.

# Portland Extension Center

## SEPTEMBER 1960

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## OCTOBER 1960

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## NOVEMBER 1960

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## DECEMBER 1960

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## JANUARY 1961

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## FEBRUARY 1961

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## Fall Quarter 1960

*Student advising.....	September 12-30
Registration begins.....	August 29
Classes begin.....	September 26
Late fee begins.....	October 3
Last day to register or add a course.....	October 8
Last day to drop a course without responsibility for grades.....	November 5
Thanksgiving vacation.....	November 24-27
Final examinations.....	December 12-17
Term ends.....	December 17

## Winter Quarter 1961

*Student advising.....	December 26-January 6 (1961)
Registration begins.....	December 12
Classes begin.....	January 3
Late fee begins.....	January 10
Last day to register or add a course.....	January 16
Last day to drop a course without responsibility for grades.....	February 13
Final examinations.....	March 13-18
Term ends.....	March 18

\* Advisers are available on the dates indicated, at the following times:

Before the week in which classes begin: By appointment only, 9:00 a.m.-7:00 p.m. weekdays, and 9:00-11:30 a.m. Saturdays.

During the week in which classes begin: By appointment only, 9:00 a.m.-4:30 p.m. weekdays, and 9:00-11:30 a.m. Saturdays. During the week in which classes begin only, advisers are also available 5:30-8:30 p.m. weekdays, without appointment.

Locations, and any necessary changes in this advisement schedule, will be indicated in the Class Schedule published separately at the beginning of each term.

# Academic Calendar 1960-61

## Spring Quarter 1961

*Student advising.....	March 20-31
Registration begins.....	March 13
Classes begin.....	March 27
Late fee begins.....	April 3
Last day to register or add a course.....	April 8
Last day to drop a course without responsibility for grades.....	May 6
Memorial Day—holiday.....	May 30
Final examinations.....	June 5-10
Term ends.....	June 10

## Summer Session 1961

*Student advising.....	June 12-23
Registration.....	June 19
Classes begin.....	June 19
Last day to enter class without instructor's signature.....	June 21
Late fee begins. Last day to change program without change-of-program fee.....	June 22
Last day to register or to make program changes.....	June 24
Last day to withdraw without responsibility for grades.....	June 24
Independence Day—holiday.....	July 4
Final examinations.....	August 10-11
Portland Summer Session ends.....	August 11

## MARCH 1961

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## MAY 1961

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## JUNE 1961

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## JULY 1961

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## AUGUST 1961

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# Portland Extension Center

## General Information

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

Portland Extension Center and Portland State College share the same state-owned instructional buildings but are separately administered. The Center extends certain resources of the College in the same way that it extends the resources of the other degree-granting institutions within the State System.

**Location:** Portland Extension Center and Portland State College face S. W. Park Avenue between Market and Harrison Streets, near downtown Portland. The Center's administrative offices, to which mail normally should be addressed, are at 1633 S.W. Park Avenue. Telephone number is CApitol 6-6601. (*See area map, page 2.*)

**Faculty:** Faculty for Portland Extension Center is drawn from regular staffs of the institutions within the Oregon State System of Higher Education and from business and industry and the professions.

**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. Work taken at Portland Extension Center may be applied toward graduation from any of these degree-granting institutions, providing residence and other requirements of these institutions are satisfactorily met.

**Accreditation:** Portland Extension Center's academic accreditation is co-extensive with that of the institutions of higher education in the State System. Credits earned at the Center, **within specific limits and with the approval of the institution concerned**, are accepted as residence credits toward a degree when transferred to the University of Oregon, Oregon State College, Portland State College, or any of the three regional colleges, **provided that the credits have been earned as part of a planned degree-program.**

If transferred to institutions not a part of the Oregon State System, such credits are acceptable on the same basis as credits transferred from the campus institutions of the State System.

**Institutional Requirements for Degrees:** Admission, credit-transfer, residence, and other degree-program requirements are established by the institution from which the student wishes to receive his degree. Candidates for degrees from any institution must meet the requirements prevailing at the school of their choice at the time admission is granted. Information concerning these requirements should be obtained **from the Registrar of the degree-granting institution concerned**, whether within the State System or elsewhere.

**Non-Credit Activities:** The Center offers an expanding program of non-credit activities, in addition to its continuing program of undergraduate and graduate credit courses. These non-credit activities are designed for individuals not primarily interested in academic degrees. Most of these activities are integrated

within the Center's program in Liberal Education for Adults, described more fully below.

**Advisers:** Advisers are available to students each term during the week prior to the beginning of classes and during the first week of classes. Hours and locations will be shown in the class schedule published in advance of each term.

**College-Level Telecourses:** Telecourses of varying kinds have been offered by the General Extension Division for a number of years, but more recently there has been a large-scale shift toward a long-range, continuing college-level educational television program in Portland and elsewhere in the state, with basic course formats and "class" schedules comparable with those of regular campus classes.

The Division's telecourse program is expected to be expanded considerably as circumstances permit. Presently, the ETV project in Portland comprises both network and locally-produced offerings, and utilizes early-morning broadcast times on local commercial television stations.

The telecourses are designed primarily for degree-oriented students, but non-credit participation is, of course, open to any others who can participate with profit to themselves.

**Liberal Education for Adults Program:** Portland Extension Center's Liberal Education for Adults program comprises a special group of credit and non-credit activities designed to afford mature, adult students an opportunity for liberating learning experiences. Such activities are intended to confront the student not only with ideas that are important, but also to show the relationships among them and the ways of thinking about them, doing so in a fashion that brings together ideas that are often considered to be separate because they ordinarily are treated in separate subjects.

The LEA program is essentially a non-credit program, in that participation is not motivated primarily by the desire or need for academic credit. In certain cases, however, the individual may enroll in courses which normally carry college credit, if these courses are in line with his special interests. In any case, the individual himself selects the activities in which he participates, and determines the extent and nature of his participation.

LEA activities are richly varied, and the program itself is informally structured to accommodate the wide range of interests present among the adult evening program student body and faculty. Brochures on LEA activities are available on request in advance of the beginning of each term.

**Counseling Center for Adults:** The Portland Extension Center-Portland Summer Session Counseling Center for Adults was established in response to a demand for an adult-level, professionally-staffed counseling service of a type not possible within the necessarily restricted framework of the regular student advisement program.

The Counseling Center's varied services, in three broad areas—personal, vocational, and educational counseling—are available to all registered evening and summer students, and to others on referral from cooperating schools and agencies.

**Special Programs:** Portland Extension Center's numerous special service and community programs are described on pages 13-15 of this catalog.

## Admission Requirements

**Transcripts:** Veterans who enroll in Portland Extension Center under any of the veterans' state or federal educational benefits must submit transcripts. **Other**

students should not submit transcripts to the 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 be completed.

Students should note that a faculty member may at his discretion refuse to accept in his class any student who was not present at the first scheduled class meeting.

**IMPORTANT:** 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. The Center reserves the right to re-assign any student to an added class-section of any course.

### Audit (Non-Credit) Work

Students who wish to enroll in courses relating to their employment, their hobbies, or to some other special interests, should consider the possibility of audit (non-credit) enrollment. Auditors participate in class work only to the extent of their interests and needs, 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\* or elsewhere.

Students who are beginning degree programs 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 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, di-

\* A minimum of 45 hours of the last 60 hours presented for any degree must be earned at Portland State College or within the General Extension Division. Total hours offered for graduation must include a minimum of 18 upper-division hours in the student's major field taken at Portland State College or as Portland State College courses in the Portland Extension Center or the Portland Summer Session.

visional, or professional school requirements pertaining to the related 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 are available at the Center's administrative offices 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

The course numbering system is described on page 21. A student electing graduate credit in a 400 (G) or (g) course must so indicate at the time of registration; otherwise, graduate credit **cannot be granted**. Students should also note that mere accumulations of graduate credit do not qualify them for graduate degrees.

Certain masters' 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.

The University of Oregon has a 24-hour residence requirement. This requirement may be met by attending two Portland Summer Sessions.

Oregon State College has a 12-hour residence requirement. This requirement must be met by attendance on the OSC campus proper.

At both these institutions, the degree is regarded as a professional teaching degree, and not necessarily as a research degree; however, at the University of Oregon a thesis or field study is required of candidates whose area of specialization is one of the following: (1) Administration; (2) Psychology, Measurement and Evaluation.

At Oregon State College neither a thesis nor a field study is required under Options "C" or "B."

For the degree with either of these Oregon institutions a well-integrated program is planned for each individual candidate 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 student.

At the University of Oregon, both the qualifying and final examinations are written. Oregon State College requires a written 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** (from Oregon College of Education in Monmouth, or from either of the State System regional colleges in Ashland and La Grande): Effective September 1, 1959, and affecting students who enter the Master of Science in Education programs as of the fall quarter of 1959 and later, Oregon College of Education requires 24 hours of credit in residence. This requirement may be met by attending one Portland Summer Session and one summer session on the Monmouth campus.

Eastern Oregon College and Southern Oregon College will accept a maximum of 15 hours of course work completed in Portland Summer Sessions.

Graduate students officially accepted in the program prior to the fall term of 1959 may complete the program under the regulations in effect when they were accepted, providing it is completed within the approved time limit.

Requirements for the degree include a core of 18 hours in professional courses and six 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 whose research interest and broad academic background, usually in three disciplines, make 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 for a departmental degree.

Under favorable circumstances all work toward this degree from Oregon State College may be completed in Portland, but the University of Oregon requires that candidates earn at least 33 hours in residence on the Eugene campus.

**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 15 hours of graduate work may be completed in Portland.

## Special Programs for Graduate Students

**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 of the first 24 hours 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 School of Nursing, University of Oregon Medical School, and with the Graduate School, Oregon State College.

**Professional Degrees in Engineering:** The degree of Agricultural Engineer, Chemical Engineer, Civil Engineer, Electrical Engineer, Industrial Engineer, Mechanical Engineer, Metallurgical Engineer, or Mining Engineer, may be earned by a holder of a baccalaureate or master's degree from Oregon State College after having completed at least five years of successful professional practice following graduation, and by completing an acceptable thesis.

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 in lieu of each year of professional practice.

Effective with the fall term of 1960, qualified candidates for the M.S. degree in electrical, mechanical, civil, or industrial engineering from Oregon State College may complete all graduate course-work at Portland Extension Center. Previously, the completion of at least 12 credit hours in residence on the Corvallis campus had been required.

Undergraduate work leading to the B.S. degree in applied science from Portland State College may also be completed at Portland Extension Center. This bachelor's degree program is designed to equip the graduate to undertake those Oregon State College advanced engineering programs, discussed in the preceding paragraph, for which the requirements may be fulfilled at Portland Extension Center.

For additional details and application instructions for the degree of engineer, consult the Oregon State College catalog.

**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 Portland Extension Center who wish to apply the credits earned 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.

## Service and Community Programs

Portland Extension Center arranges, on request, special courses or groups of courses dealing with professional or technical subjects. This usually is done in cooperation with business firms and with professional, labor, or other groups. Courses dealing with avocational subjects may also be arranged.

These may be either degree or non-degree oriented programs, designed to meet the special needs of the groups concerned. Representative of these service and community programs are the following:

### Teacher Training

Teachers and administrators seeking to fulfill requirements for the various certificates, including administrators' 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, Ore.

**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 Portland State College offer supervised teaching. A limited number of students may meet supervised teaching requirements through these facilities.

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



**Training in Pre-School Education:** Although Portland Extension Center does not offer a full program in pre-school education, certain courses (and an option under the **Master of Arts in General Studies** degree program at Oregon State College) 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.

**Counseling and Guidance Training Institutes:** Portland Extension Center will conduct a 16-week Counseling and Guidance Training Institute for Pacific Northwest secondary school teachers February 6-May 26, 1961. The Portland Institute, with others throughout the nation, will be conducted under contract with the United States Office of Education and is financed by congressional appropriation under the National Defense Education Act of 1958.

Enrollees selected will receive weekly stipends of \$75, and \$15 a week for each dependent. A total of 25 enrollees will be selected, from an area including northern California, Nevada, southwestern Idaho, and Oregon. High school teachers who have not previously been assigned to counseling and guidance duties will receive preference for admission.

A similar, eight-week Institute will be conducted during the 1960 Portland Summer Session. Forty practicing high school counseling and guidance workers will be selected from Oregon and Alaska. Stipends and dependents' allowances will be the same as those awarded enrollees in the February 6-May 26 Institute.

Application for either Institute should be made to Dr. Daniel W. Fullmer, Director, Counseling Center for Adults, Portland Extension Center, 1633 S.W. Park Ave., Portland 1, Ore.

## Cooperative and Certificate Programs

Business and industrial concerns, and trade, labor, and professional organizations, may supplement their own educational and training programs by working cooperatively with the Center on non-credit seminars, short-courses, workshops, and other specially designed activities. Under certain conditions, special sections of credit courses may also be arranged.

Contents of and financial arrangements for programs of this kind vary with circumstances. Fees can be based on actual costs, which are billed to the sponsoring agency. Planning for such programs should begin at least 90 days in advance of the expected first class meeting.

**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 in a program designed 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 in Portland.

**Museum Art School:** A program in art is offered by the Center in cooperation with the Museum Art School of the Portland Art Association. Classes meet in the Portland Art Museum, S.W. Park Ave. at Madison St. Enrollment in these classes is limited to the number which can be accommodated in the studio facilities available.

**Portland Civic Theatre:** A cooperative program of credit courses in drama is sponsored jointly by Portland Extension Center and the Portland Civic Theatre. Some of the classes meet at the Civic Theatre and some at Portland Extension Center. These classes are open to all qualified students. The Portland Civic Theatre is at 1530 S.W. Yamhill St., Portland.

**In-Service Training:** Selected advanced 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 may be offered for college or university credit, and the fees are the same as for the regular evening courses.

**Women's Group Activities:** The Center's coordinator of women's group services welcomes inquiries from program chairmen and other officers of Portland-area women's organizations regarding ways in which the Center might serve the educational objectives of these groups.

**In-Service and other classes not scheduled in Portland Extension Center facilities are limited to two term hours of credit when offered during late afternoon hours. Classes scheduled for evenings may be offered for three term hours of credit.**

**In order to make necessary arrangements, including the assignment of qualified instructors, Portland Extension Center must receive requests for in-service and other credit courses to be offered in public schools at least 90 days in advance of the expected beginning date.**

## Registration Procedures and Regulations

Students who have not enrolled during the early registration period, either in person 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 pages 7-8). During evenings of registration week (the first week of classes), students will receive registration materials and instructions in State Hall, from 5:10 to 8:30 p.m., Monday through Friday. The exact location of evening registration will be designated in the Class Schedule published in advance of each term. At other times (during regular office hours) registration is in the Registrar's office at 1734 S.W. Park Ave.

Late registrations are accepted only during the second week of the term and only if 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 for credit, students must be present at the first meeting and must have completed their registration.

**Auditors:** Auditors should register during the regular registration period under the same regulations as credit students. Beginning with the late registration

period, auditors may register at any time during the term, provided they pay late registration fees and provided the instructor is willing to accept their late registration.

**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, 1734 S. W. Park Ave., Portland 1, Ore., or telephone CApitol 6-6601. **Late registration 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 20) **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 Veterans' Administration Regional Office, Tower Building, Seattle, Wash. 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.

The veteran must provide the Veterans' Administration with a **statement from the college or university which is to grant his degree** that the courses in which he will enroll will be acceptable in partial fulfillment of its degree requirements. Such a statement should list the courses by catalog number and name.

The State of Oregon also has legislation affording educational assistance to veterans; information may be obtained from the State Department of Veterans' Affairs, Lincoln Building, 208 S.W. 5th Ave., Portland, Ore.

Questions of veterans' 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 Veterans' Clerk, Registrar's Office, 1734 S.W. Park Ave., Portland 1, Ore., CApitol 6-6601.

## Portland Extension Center Fees

### Fee Schedule

**Regular registration and course fees**, tuition not included, applicable to undergraduates, graduates and auditors, as established by the Oregon State System of Higher Education, are as follows:

<i>Item</i>	<i>Per term</i>
Per credit hour rate.....	\$11.00
Minimum charge for 1 or 2 credit hours for any student, or for any class.....	22.00
Charge for students enrolled for 7 credit hours or more.....	90.00
Laboratory 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 \$90.\*

**Note: The fee receipt should be retained.** When the student presents the receipt to the library, he is issued a library card, valid for the term covered by the receipt.

### 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) (if delayed registration is accepted).....	\$3.00-1.00
If payment of fees is 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
Counseling and testing service fee.....	\$ 5.00
Staff fee, per credit hour (including staff auditors).....	\$ 3.00

(Available only to full-time employees, academic and non-academic, of not only the General Extension Division but of any unit of the Higher Educational System, upon approval of institutional executive. Maximum of five credits per quarter. In accordance with Administrative Code, Section L-3.K(1)-(c), applicable to privileges of academic staff: "Upon approval of the president or executive head, all full-time staff members may register for a limited amount of work for credit in any term, generally for not more than three term hours of credit. As many as five term hours shall be permitted, providing registration is for not more than one course." Subject to approval of the Dean's Office, all fees and maximum credit-hour limitations may be waived for retired employees; and for staff members on leave, the maximum credit-hour limitation may be waived but the fee is not waived.)

### 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.

\* Includes \$6.00 for Student Union fee at Portland State College for each student enrolled at Portland Extension Center.

## Library Regulations and Charges

**Note:** The library card is issued upon presentation of the student's tuition receipt. This receipt should therefore be preserved, even when payment of tuition is by check. Students who hold cards from a previous term must have them validated for the succeeding term.

The following regulations govern library fines and charges:

1. Students and faculty are issued a free library card for use in the electric charging machine. A replacement fee of 25 cents is charged if this card is lost or is not returned when a student withdraws.
2. The following fines will be charged for violations of book circulation rules:
  - (a) For general circulating overdue books, a fine of five cents per day.
  - (b) For overdue Reserve books, a regular fine of 25 cents for the first hour and five cents each succeeding hour, or fraction thereof, until library closing time for each book for each day, until the book is returned or reported lost. A charge of \$1.00 per hour may be made in cases of flagrant violation of the rules.
  - (c) For failure to return books to the proper department desk when the library is open or the proper return book slot when it is closed, 25 cents per book.
3. Books needed for use in the library are subject to recall at any time. A fine of \$1.00 per day per book may be imposed for failure to return a book promptly after notification.
4. A service charge of 10 cents is added to all fines reported to the Business Office for collection.
5. 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 \$1.00 will be made to cover the cost of processing the replacement copy (ordering, cataloging, preparing for use). At the discretion of the librarian, the cost of the book and the processing charge may be refunded if the book is returned after the borrower has been billed.

## General Services

**Counseling Center for Adults:** Professional counseling services are available to all regularly-registered evening and summer students, and to others on referral from cooperating schools and agencies. Information may be obtained at the Center's offices on the second floor of the General Extension Division building, 1633 S.W. Park Ave., Portland. Telephone CApitol 6-6601, extension 439.

**Publications:** The *Night-Owl*, a quarterly publication, is distributed to all Portland Extension Center faculty and students. The paper has no formal connection with the journalism classes offered at the Center, but interested persons are invited to contribute news items and articles of interest to evening class students and faculty.

**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, and other activities are scheduled regularly, many with no admission charge.

**College Center:** The College Center is located on the corner of S.W. Montgomery St. and Park Ave. Every regularly-registered evening student may use

the varied facilities offered in the College Center and may participate in the social and activity programs.

Students and faculty may use the College Center cafeteria, snack bar, and dining rooms where group luncheons and dinners are served. There are also meeting rooms and a spacious lounge where art and other special exhibits are displayed. A cooperative bookstore, and game room with billiards and table tennis, are located on the lower floor. All College Center facilities are open from 7:30 a.m. to 8:30 p.m. Monday through Thursday, and until 4:30 p.m. on Friday. Additional College Center facilities are now under construction, including greater cafeteria space, a browsing library, a bowling alley, meeting rooms, and a ballroom.

College Center facilities are financed through student fees and do not represent state tax monies.

**Textbooks and Materials:** Textbooks and other supplies required for Portland Extension Center classes will be made known at the first meeting of each class. They may be purchased at the cooperative bookstore, on the lower floor of the College Center.

**Library:** The new library building is on the corner of S.W. Broadway and Montgomery St. The entrance is off the concourse which connects the College Center with Broadway.

The library is organized according to large subject areas, with Education materials on the first level, Science and Social Science materials on the second, and Humanities materials on the third. General services, such as registration, circulation, and reserve, are on the ground floor. The audio-visual department is in the basement, which has a separate entrance from the concourse. There are also a microfilm room, two typing rooms, and several small conference rooms. The collection is kept on open shelves immediately adjacent to the reading areas.

The library is open from 7:30 a.m. to 9:00 p.m. Monday through Friday when classes are in session, and 7:30 a.m. to 4:30 p.m. between sessions. If experimental use justifies it, the library will also be open on Saturday morning.

# 1960-61 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. A number less than 50 indicates a non-credit course.

**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 Oregon College of Education and the two regional colleges at Ashland and La Grande, *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, 6:45-8:40 p.m.; three-hour classes, 6:45-9:30 p.m., and four-hour classes two nights a week, 6:45-8:40 p.m. Deviations from this plan will be noted in the class schedule for each term.

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

**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.

**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**

\* 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  $1\frac{1}{2}$ .

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.

**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.

**A Grade Point** is a numerical expression of the qualitative value of a student's work. Grade points are calculated on the basis of 4 points for each 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 calculation of points.

**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. Non-credit courses are not considered in computing the grade-point average.

## Portland Extension Center 1960-61 Evening Classes

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## Description of Courses

For the convenience of students planning their evening course-work at Portland Extension Center, the courses described in this catalog are grouped by general subject-area, rather than, strictly, by school, department, or division.

In some instances, this general subject-area grouping will not coincide with the formal school, departmental, or divisional groupings employed by the campus institutions at which the courses originate. In every case, however, the originating institution and the school, department, or division are indicated in the full course title and description. The informal groupings employed are for convenience in using this catalog only.

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.

To locate courses in specific areas, see listing on page 22 or Index, pages 89-90.

**Note:** Any changes in these listings will be indicated in the Class Schedule, published separately about one month in advance of each term.

### Business Administration and Secretarial Science

#### Accounting

#### LOWER-DIVISION

(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 offered each term.*

#### UPPER-DIVISION

(P) BA 314. **Principles of Cost Accounting.** 3 hours fall or spring.

Basic principles of cost measurements and reporting for management planning, policy, and control purposes. Methods of data accumulation and control of materials, labor, and indirect costs. Job and process cost systems. Overhead budgeting; departmentalization; fixed and variable cost concepts. Prerequisite: BA 113. Boyd (R. L.), Hewitt.

(U) Ac 379. **Federal Income Tax.** 3 hours winter.

Designed for students not specializing in accounting. Emphasis on the impact of Federal income and state taxes on decisions of business management, such as decisions to invest, to merge, to distribute earnings, to establish retirement programs. Students not admitted to both Ac 379 and Ac 479, 480. Prerequisite: Ac 213 or consent of instructor.

(P) BA 383, 384, 385. **Accounting Theory.** 3 hours each term.

Comprehensive study of generally accepted principles of accounting and of conventional procedures for the measurement and presentation of financial data. Problems of theory applicable to income determination, to proprietorship interests, to liability disclosures, to property pricing, and to the more difficult but significant business transactions and interorganizational relationships. Prerequisite: BA 113. Hewitt, Teeter.

- (S) BA 426. **Accounting Systems.** (g) 3 hours spring.  
Systems for accumulating, recording and summarizing financial data; use of machines in these processes. Demonstrations and field trips. Prerequisites: BA 321, 322, 323 or consent of instructor. Craig.
- (S) BA 429. **Controllorship (Budgeting).** (g) 3 hours fall.  
Functions of the controller and his organization; techniques employed in the coordination and control of accounting, budgeting and planning; controller's contributions to management and responsibilities for office organization and procedures. Prerequisite: Second-year accounting or consent of instructor. Davidson.
- (U) Ac 479-480a, 480b-481. **Income-Tax Procedures.** (G) 3 hours fall and winter.  
Professional study and analysis of the federal and Oregon income-tax structure, and of the problems involved in determining income-tax liabilities. Determination of taxable income and computation of taxes for individuals, partnerships, corporations, estates and trusts; introduction to tax research. Prerequisite: Ac 213. Peiterson.
- (U) Ac 487, 488. **Advanced Cost Accounting.** (G) 3 hours winter and spring.  
Presentation and analysis of cost information to aid management in performing the functions of planning and control.  
First term: the concept of the budget, various concepts of capacity in relation to overhead rates, standard costing, cost-volume-profit relationships, distribution costing, joint and byproduct costing.  
Second term: function of the controller in planning and control, break-even analysis, direct costing, capital and operating budgeting, intrafirm pricing, cost reports to management, cost accounting and pricing policy, including differential costing. Current cost accounting literature examined in connection with case studies. Prerequisite: Ac 312 or consent of instructor. Boyd (R. L.).
- (U) Ac 489, 490. **Special Topics in Accounting.** (G) 3 hours fall and winter.  
Professional study of specialized problems relating to financial accounting: application of compound-interest computations to the problem of valuation, special problems in partnership accounting, accounting for firms in financial difficulties, consolidated financial statements, estate and trust accounts and reports. Prerequisite: Ac 485, one year of college mathematics. Harwood.
- (U) Ac 491. **Advanced Accounting Theory.** (G) 3 hours spring.  
Advanced topics and current controversial areas in accounting theory; readings in accounting literature, discussion of current problems, with emphasis on the effect of changing prices and price levels on accounting statements. Prerequisite: Ac 489, 490 or equivalent. Harwood.
- (U) Ac 492, 493. **Auditing Concepts and Practice.** (G) 3 hours fall and winter.  
Auditing standards and procedures observed by certified public accountants in the examination of the financial statements of business and other organizations. Audit standards and objectives, collection of evidence, evaluation of internal control, problems of verification and application of procedures, preparation of programs, work papers, and reports. Prerequisite: Ac 485, 487 or consent of instructor. Boyd (R. L.).
- (U) Ac 494. **Special Topics in Auditing.** (G) 3 hours spring.  
Readings in auditing literature, discussion of current developments, such as reporting standards, internal auditing, application of statistical sampling techniques to auditing, problems posed by electronic data processing and other machine systems, as well as such innovations in auditing concepts and practice as the continued examination approach. Prerequisite: Ac 492, 493 or consent of instructor. Boyd (R. L.).

### General Business

#### LOWER-DIVISION

- (P) BA 121. **Introduction to Business and Industry.** 3 hours fall or winter.

- Survey of business organization, operation, and management intended to orient the student in business and industry and to help him determine a field of major concentration. Manning.
- (P) BA 122. **Survey of Modern Industry (Managerial Principles).** 3 hours spring.  
Representative industries within the United States covering development, structure, competitive conditions, basic processes, and services. Manning.
- (U) MPM 125-126a, 126b-127. **Business Environment.** 3 hours winter and spring.  
The social, political, and economic environment within which business functions in the United States; emphasis on the groups confronting business, their attitudes, and behavior, and on the social, political, and economic responsibilities of business. Walton.
- (P) BA 221. **Elements of Organization and Production.** 3 hours winter.  
Principles of management as applied to commercial and industrial concerns. Hinds.
- (P) BA 222. **Elements of Finance.** 3 hours fall or spring.  
The financial problems of corporations. Organization of corporations; how they obtain long-term funds; management of working capital; distribution of securities. Required of all majors. Prerequisite: BA 111, 112, 113. Davies.
- (P) BA 223. **Elements of Marketing.** 3 hours fall or 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. Dodge (R. E.).
- (P) BA 238. **Salesmanship.** 3 hours fall.  
Salesmanship as a factor in distribution and service; analysis of the customer and his wants; methods of obtaining and holding customers; wholesale and retail sales processes, service, and principles of selling. Schmelzlee.
- (P) BA 239. **Advertising.** 3 hours spring.  
Advertising as a factor in the distribution process; advertising agencies; evaluation and selection of advertising media for various types of business establishments; preparation of copy. Schmelzlee.

#### UPPER-DIVISION

- (P) BA 315. **Analysis of Financial Statements.** 3 hours spring.  
Analysis and interpretation of financial reports for management purposes. Comparisons; ratios; trends; other financial relationships; evaluations of financial position and operating results. Corrective measures for management policy and executive action. Wiesner.
- (U) FBE 315. **Regional Studies in Business (Pacific Northwest).** 3 hours winter.  
The regional resources of the Pacific Northwest, as they are related to industry and commerce. Lomax.
- (U) FBE 320. **Financial Institutions.** 3 hours winter.  
The functions and economic significance of the major financial institutions in the economy that make the savings of society available to consumers, businesses, and governments, including commercial banks, savings banks, savings and loan associations, credit unions, insurance companies, investment trusts, various governmental lending agencies, and international financial institutions. Analysis of each institution and the part it plays in providing the short, intermediate and long-term credit needs of the users of funds. The commercial banking system in relation to its function of supplying the nation's money supply. The nature and functions of money and credit and the interrelationship of money, credit, and prices as they affect business decisions. Prerequisite: Ec 201, 202, 203.

- (P) BA 329. **Production Management.** 3 hours spring.  
Problems, readings, and discussion of factory organization, production methods, operational controls, utilization of facilities, supervision, and factory management. Prerequisite: BA 221. Hinds.
- (U) BEd 333. **Office Organization and Management.** 2 hours spring.  
The management and organization of the office, with special attention to the scientific approach to analysis and control; functional office layout and equipment; selection, training, and supervision of office personnel; place of automation in the office; planning, organizing, and controlling office services, such as correspondence, mailing activities, records management, communications, duplicating. Prerequisite: junior standing.
- (U) MPM 341. **Principles of Advertising.** 3 hours fall.  
Advertising as a factor in the distributive process; the advertising agency; the "campaign"; the function of research and testing; the selection of media—newspapers, magazines, broadcasting, outdoor advertising, direct mail. Prerequisite: MPM 323 or consent of instructor. Wales.
- (P) BA 359. **Finance Management.** 3 hours winter.  
Problems and case studies in management determinations respecting permanent capital, working capital, retention of earnings, bank loans, commercial credit, and administrative policies. Prerequisite: BA 222. Davies.
- (P) BA 366. **Sales Management.** 3 hours spring.  
Functions of management in the marketing process; promotion; planning, coordination of production and sales; customer relations; selection, training, and supervision of salesmen; administrative policies. Prerequisite: BA 223. Dodge (R. E.).
- (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. Related treatment of quasi contracts and torts. Allan, Mengler.
- (S) BA 412. **Business Law.** 3 hours winter.  
Nature of personal property including sales, bailments, chattel mortgages and conditional sales; law of negotiable instruments including promissory notes, bills of exchange, and checks. Prerequisite: BA 411. Mengler, Schreima.
- (S) BA 413. **Business Law.** 3 hours spring.  
Law of business ownership and organization including individual proprietorship, agency, partnership, corporations, cooperative associations, and business trusts. Allan, Schreima.
- (U) MPM 412. **Personnel Management.** (G) 3 hours fall.  
Personnel management in the modern business organization; personnel policies and practices conducive to good relations with employees; personnel problems of small organizations.
- (U) MPM 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: MPM 412.
- (U) MPM 414. **Problems in Personnel Administration.** (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: MPM 412, 413 and consent of instructor.
- (U) FBE 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 nonmajors. Browning.
- (U) FBE 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 practices and institutions. Prerequisite: FBE 425. Dehner.
- (U) FBE 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: FBE 425. Dehner.
- (U) MPM 428. **Manufacturing.** (G) 3 hours fall.  
Manufacturing industries of the United States; their raw materials, processes, and current technology and marketing development. Prerequisite: BA 222, 223 or equivalent. Lomax.
- (S) BA 431, 432. **Business and Industrial Statistics.** (g) 3 hours fall and winter.  
Statistical techniques for collecting and analyzing business data; statistical source materials; methods for dealing statistically with problems of inspection, quality control, personnel testing, financial analysis, and market research; development of facility in use of business data in reports; sharpening of critical faculties for appraisal of statistical "facts" and "proofs." Prerequisite: Mth 104, 105, or Mth 100 or consent of instructor. Goddard.
- (S) BA 435. **General Insurance.** 3 hours winter.  
Aims to familiarize students with the various insurance means at disposal of management for use in shifting, reducing, or eliminating risk; fire, casualty, workmen's compensation, fidelity and surety, marine, life, and other types of insurance. Strickler.
- (U) MPM 435. **Marketing Management.** (G) 3 hours fall.  
The role of marketing in effective management; basic market forces; organization; analysis of individual marketing strategies; programming marketing effort; planning and control of the product, its price, and distribution channels; problems of communication; appraisal of marketing theory and development. Major emphasis on problem solving and decision making, with pertinent references to research and experience in other disciplines. Richins.
- (U) MPM 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: MPM 323 or equivalent.
- (U) MPM 439. **Retail Buying.** (G) 3 hours winter.  
Buying problems; merchandising organizations; 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: MPM 436 or equivalent.
- (U) MPM 442. **Buying Behavior.** (G) 3 hours spring.  
The consumer, studied in terms of concepts drawn from contemporary behavioral and social science; principles of perception, learning, and motivation; concepts of class and status. Implications of these basic concepts for advertising, merchandise display, appearance of retail establishments, salesmanship, and relationship between buyer and seller.
- (U) MPM 449a. **Domestic Transportation and Traffic Management.** (G) 3 hours fall.  
Designed to acquaint the student with principles and practices of transportation which should be known to every businessman engaged in production or distribution. The physical transportation plant of the United States and its

performance; carrier responsibilities, services, and cooperation. The economic and legal basis of rates, the process of freight classification and tariff preparation and interpretation, various kinds of rate structures, and relationships between transportation and the location of economic traffic departments. Prerequisite: Ec 201, 202, 203 or consent of instructor. Ziebarth.

- (U) MPM 449b. **Domestic Transportation and Traffic Management.** (G) 3 hours winter.  
Continuation of MPM 449a.
- (U) MPM 450a. **Ocean Transportation and Traffic Management.** (G) 3 hours spring.  
The basic laws and policies of the United States relating to the merchant marine in foreign trade and national defense; construction and operating differential subsidies and control of trade routes. Ocean carrier organization; departmental controls as these affect the operation of the ship; the handling and stowage of cargo, terminal administration, harbor belt lines, and documentary procedures. Prerequisite: Ec 201, 202, 203 or consent of instructor. Lomax.
- (U) MPM 453. **Business Policies.** (G) 4 hours spring.  
The interdependence of the different departments of a business concern. Designed to provide an integrated view of business operations, and to coordinate the more specialized instruction of the school. Prerequisite: senior standing. Ziebarth.
- (U) MPM 455. **Property and Liability Insurance.** (G) 3 hours spring.  
The more important methods of reducing business and personal risks from physical and moral hazards; major contracts of insurance to indemnify for losses from such perils as fire, windstorm, explosion, transportation, legal liability, dishonesty, and insolvency of others; loss adjustment practices, underwriting problems, reinsurance, rate making, consequential losses.
- (S) BA 463. **Retail Merchandising.** (g) 3 hours winter.  
Principles of organizing and operating retail institutions; store location, store layouts, buying and selling, operating activities, personnel and control. Seaton.
- (U) FBE 463. **Investments.** (G) 3 hours fall or winter.  
Economic and mathematical principles relating to the investment valuation process; corporate practices and financial institutions and organizations that serve the investor; analysis of various types of securities and other investment media; investment policy for both individuals and institutions. Prerequisite: Ec 201, 202, 203; Ac 211, 212, 213 or equivalent. Burrell.
- (U) FBE 464. **Investments.** (G) 3 hours spring.  
Special methods used in analysis of industrial, public utility, railroad, and other securities; taxation of investment income in relation to investment policy; development of sound principles of timing and selection of securities to meet the needs of various types of investment funds. Prerequisite: FBE 463. Burrell.
- (U) MPM 467. **Public Utility Management.** (G) 3 hours fall.  
Review of historical and present regulatory laws, agencies, and procedures; problems and policies of municipal, state, and federal ownership; management of various kinds of privately-owned utility firms (electric, gas, communications, etc.). Organizational structures, price policies, marketing of services, short- and long-range planning public relations, the potential impact of atomic energy development. Particular emphasis on problems affecting the Pacific Northwest. Prerequisite: Ec 201, 202, 203 or consent of instructor. Sampson.
- (S) BA 497. **Human Relations in Business and Industry.** (g) 3 hours spring.  
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 relation problems in business. Prerequisite: senior standing or consent of instructor. Pfanner.

- (S) BA 498. **Government Relations in Business and Industry.** (g) 3 hours winter.  
Statutory, administrative, and common law controls affecting modern business and their influence on budgetary considerations, business structure, and administrative policies; importance of constructive attitude and proper recognition of government aids and services to the business community. Prerequisite: senior standing. Allan.

#### GRADUATE

- (U) FBE 507. **Seminar: Business Forecasting.** 3 hours fall.  
Examination of the usefulness of business and economic data—national income accounts, banking and monetary quantities, production and inventory levels—in estimating general business trends, prospects of a particular industry, and fluctuations in an area of business activity or geographical region. The course is organized so that all of the current business and economic data can be carefully considered to provide a base for understanding the cyclical developments taking place at the time the course is being taken. Each member of the class studies an industry and completes a short-term and long-term forecast of the level of that industry's activity. Lindholm.
- (U) MPM 531. **Theory of Business Organization.** 3 hours winter.  
Development of the management role in business since 1900; principles of organization as they apply to lines of authority and responsibility in the business firm; planning and communicating personal leadership and judgment; development of standards in business organization. Richins.

#### SEE ALSO:

Economics  
Engineering  
Psychology  
Secretarial Science and Business Education

#### Secretarial Science and Business Education

#### LOWER-DIVISION

- (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. Backlund and staff.
- (P) SS 111. **Stenography** (Briefhand). 3 hours winter.  
Oliver (P.).
- (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. Fall: SS 121, 122. Winter: SS 121, 122. Carpenter, Underwood.
- (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. Jack.
- (S) Wr 214. **Business English.** 3 hours winter or spring.  
Analysis and writing of common types of business letters. Prerequisite: Wr 113 or consent of instructor. Winter: Yerian. Spring: Netboy.
- (P) SS 215. **Business Machines.** 3 hours fall or spring.  
Use and operation of various office equipment and machines. Oliver (P.).



**UPPER-DIVISION**

- (U) BEd 333. **Office Organization and Management.** 2 hours spring.  
The management and organization of the office, with special attention to the scientific approach to analysis and control; functional office layout and equipment; selection, training, and supervision of office personnel; place of automation in the office; planning, organizing, and controlling office services, such as correspondence, mailing activities, records management, communications, duplicating. Prerequisite: junior standing.
- (S) SS 411. **Secretarial Problems.** 3 hours fall.  
Duties and problems of the secretary in business and professions; relations to employer and fellow employees; office short cuts; office supervision. Special consideration will be given to problems and activities of those presently working in offices. Yerian.

**GRADUATE**

- (S) BEd 536. **Problems and Research Techniques in Business Education.** 3 hours fall.  
Trends in high school business curriculum; evaluation of methods and available research studies. Prerequisite: Ed 408 or teaching experience in business subjects. Winger.
- (S) BEd 539. **Current Trends in Basic Business Subjects.** 3 hours spring.  
Larse.
- (S) BEd 540. **Administration and Supervision of Business Education.** 3 hours spring. Yerian.
- (S) BEd 542. **Current Practices in Shorthand.** 3 hours winter.  
Correct writing habits; correlation of sound and symbol response; word and sentence building and transcription technique. Prerequisite: Ed 408 or teaching experience in stenography. Barber.

**Education****NON-CREDIT**

- (E) Ed 21. **Improvement of Adult Reading.** Non-credit (3) spring.  
A non-credit course especially designed for those adults who are interested in improving their reading abilities. The theoretical approach combined with learning the most efficient techniques of vocabulary development, comprehension, improvement, idea organization, and other reading skills will be used. (Enrollment limited and by arrangement with the instructor.) Kolson.

**LOWER-DIVISION**

- (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. Leavitt.

**UPPER-DIVISION**

- (P) Ed 310. **School in American Life.** 3 hours any term.  
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. Required field experiences supplement theoretical study. Hummel, Farrell, Guy.

- (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. Prerequisite: Psy 201, 202. Bernard, Sullivan.
- (P) Ed 314. **Principles of Secondary Teaching.** 3 hours winter or 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. Observation is required. Prerequisite: Ed 310, 312. Hummel.
- (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. Tichy, Victors.
- (P) Ed 351. **School Health Program.** 3 hours winter or spring.  
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: GS 101, 102, 103. Smithwick, Tichy.
- (P) Ed 356. **Methods and Materials: Reading in the Elementary School.** 3 hours any term.  
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. **Observation is required.** Prerequisite: Ed 310, 312, and Psy 311. Bingham, Phelps.
- (P) Ed 358. **Methods and Materials: Language Arts and Social Science.** 3 hours any term.  
Trends and practice in listing, 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 method and materials in language arts and social studies. **Observation is required.** Prerequisite: Ed 310, 312, and Psy 311.. Bingham, Phelps.
- (P) Ed 359. **Methods and Materials: Science and Mathematics.** 3 hours any term.  
Science and mathematics in the elementary schools. Methods in the area of science, including experiments, 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. **Observation is required.** Prerequisite: Ed 310, 212, and Psy 311. Hartley, Piacentini.
- (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. LaRiviere.
- (S) IEd 382. **Analysis and Course Construction.** 3 hours fall.  
Course construction based on trade analysis: selection of type of jobs that require skills and knowledge discovered through analysis, arranged in sequence of difficulty within each division of the trade. Prerequisite: Ed 408, IEd 381 or equivalent. Cannon.

- (P) Ed 389. **Reading and Telling Children's Stories.** 3 hours spring.  
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. Prerequisites: Eng 388 and consent of instructor. Petersen.
- (P) Ed 390. **Enriching Children's Reading.** 3 hours winter.  
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 and consent of instructor. Petersen.
- (P) Ed 401. **Research.** Hours to be arranged.  
Registration only after adviser's approval and instructor's consent.
- (P) Ed 406. **Special Problems in Elementary Education.** Hours to be arranged.  
Registration only after adviser's approval and instructor's consent.
- (P) Ed 408. **Special Secondary Methods.** 3 hours.  
Students must be prepared to register in sections offered during daytime hours shown in Portland State College Schedule. Wolf.
- (U) Ed 424. **Measurement in Education.** (G) 3 hours fall.  
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. Thompson.
- (S) Ed 424. **Measurement in Education.** (G) 3 hours winter or spring.  
Use of standard tests and scales to measure achievement in school subjects; elements of statistical method. Prerequisite: senior standing. Hall.
- (P) Ed 435. **Audio-Visual Aids.** 3 hours winter or spring.  
The development and use of audio-visual aids in education. Emphasis on actual learning situations in which radio, recordings, films, slides, pictures, maps, charts, etc., are utilized. Sources of materials and equipment; administration of audio-visual programs.
- (U) Ed 439. **The Gifted Child.** (G) 3 hours winter.  
The psychology, education, and guidance of the mentally superior and the extraordinarily gifted child. Lovell, (L.).
- (S) Ed 440. **History of Education.** (G) 3 hours winter.  
Growth and development of Education; Plato, Aristotle, Renaissance educators, Comenius, Locke, Rousseau, Pestalozzi, Froebel, Herbart, Herbert Spencer, and Dewey. Prerequisite: Ed 311, 312. Ten Pas.
- (S) SEd 441. **Health Education.** (G) 3 hours fall.  
School health services including procedures for the protection, maintenance and promotion of student health, organization of health services, examinations, inspections, screening, communicable disease control, health guidance, special services, emergency care, healthful school living, forms and records. Mayshark.
- (S) SEd 442. **Health Education.** (G) 3 hours spring.  
Elementary school health instruction, organization and administration, philosophy and principles of health education including methods, techniques, materials and evaluation. Koski.
- (S) SEd 443. **Health Education.** (G) 3 hours winter.  
Secondary school health instruction, organization and administration, philosophy and principles of health education including methods, techniques, materials and evaluation. Foster.
- (C) Ed 451. **Preprimary Education.** (G) 3 hours fall.  
An evaluation of the preprimary period in terms of the opportunities it affords

- to build up good attitudes toward school life, to help the child adjust himself to the group, to build up good habits of work, and to develop a readiness for subjects in the first-grade curriculum, such as reading, numbers, and language. Kane.
- (C) Ed 452. **Creative Arts in Childhood.** (G) 3 hours winter.  
A course designed to assist the student in gaining insight into the many ways young children express themselves with creative media. Exploration will be made into the interrelationships of music and rhythm, graphic arts, constructive materials, literature, dramatic play, and other areas of expression as young children use them. Kane.
- (U) Ed 462. **Psychology of Exceptional Children.** (G) 3 hours fall.  
Survey of characteristics and problems of all types of exceptional children with special emphasis on those with sensory handicaps; consideration of essential educational adaptations. Taylor, (E.).
- (U) Ed 463. **The Maladjusted Child.** (G) 3 hours spring.  
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 310, 312. Lowe.
- (U) Ed 465. **Diagnostic and Corrective Techniques in the Basic Skills.** (G) 3 hours fall.  
An introduction to the area of extreme learning problems: investigation of factors associated with retardation in the basic skills; general principles of diagnosis and correction; survey of diagnostic instruments and corrective materials; study of specific corrective techniques and programs. Concerns problems at both elementary and secondary level. Kolson.
- (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.
- (U) Ed 468. **Diagnostic and Remedial Techniques in Reading.** (G) 3 hours winter.  
Review of the research on reading disability; intensive examination of diagnostic instruments and techniques relating to reading, study of corrective and remedial reading methods, materials, and programs; observation and staffing of reading disability cases. Concerns problems at both elementary and secondary levels. Prerequisite: Ed 465 or consent of instructor. Kolson.
- (U) Ed 469. **Reading in High School and College.** (G) 3 hours spring.  
Basic principles of reading instruction; nature and scope of the total reading program; methods, materials, and organization of the developmental and corrective reading program in high school and college. Kolson.
- (U) Ed 480. **Psychology of Reading Instruction.** (G) 3 hours winter.  
Nature of the reading process; factors of learning and development related to reading achievement; psychological foundations of methods and materials of reading. Kolson.
- (S) SEd 481. **Alcohol Studies in the School Curriculum.** (G) 3 hours winter.  
Incorporation of scientific information about alcohol in school curriculum; physiological, psychological, sociological, and legal aspects of alcoholism. Prerequisite: 24 hours of upper division education or consent of instructor. Ferrier.
- (S) Ed 485. **Principles and Practices of Guidance Services.** (G) 3 hours any term.  
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. Fullmer, Gridley, Pierson.

- (S) Ed 486. **Occupational and Educational Information.** (G) 3 hours spring. Materials available regarding occupations; interpretations of present trends; value and usefulness for high-school and college students. Prerequisite: senior standing. Fullmer, Gridley, Pierson.
- (S) Ed 487. **Counseling Techniques.** (G) 3 hours winter. Mental, achievement, trade, and other tests; administration of such tests; classification, methods in educational and vocational counseling. Prerequisite: Ed 485. Fullmer, Gridley, Pierson.
- (U) Ed 491. **Social Education.** (G) 3 hours spring. Structure and functioning of society, as a background for the study and evaluation of education in its varied forms; the contribution of sociological principles and findings to the improvement of educational practices. Guy.
- (P) Ed 493. **Observation and Evaluation of Teaching.** 3 hours any term. Opportunity for experienced teachers to observe modern trends in schools and other institutions, and to discuss educational theories and practices. A limited number can be assigned to the few places available for this course. Selection will be made from written applications filed in advance with the Director of Student Teaching. (Available during day time only.) Wolf.
- (S) Ed 494. **Principles and Objectives of Vocational Education.** (G) 3 hours spring. Basic principles and development of vocational education; review of history and legislation; analysis of objectives of vocational schools and vocational programs in relationship to the total program of education. Prerequisite: consent of instructor. Ten Pas.

#### GRADUATE

- (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) Ed 503. **Thesis.** Terms and hours to be arranged.
- (U) (S) Ed 505. **Reading and Conference.** Terms and hours to be arranged. Registration only after graduate adviser's approval.
- (C) Ed 506. **Special Individual Studies.** Maximum of 6 hours. Terms and hours to be arranged. Registration only after graduate adviser's approval of student project.
- (U) Ed 507. **Seminar: Case Studies in School Administration.** 3 hours fall. Watson.
- (U) Ed 507. **Seminar: Comparative Education.** 3 hours fall. A comparative study of modern school systems. Descriptive treatment of some important school systems, such as England, France, Russia, Germany, Japan, Canada, Australia, and the United States, and comparisons of organization, administration, curriculum, philosophy of education and teaching methods. Discussion of the variety of answers different peoples find to questions of universal importance in education. Cramer.
- (C) Ed 507. **Seminar: Psychology in the Schools (Teacher-Parent-Pupil Conferences).** 2 hours fall. Discussion and application of psychological principles to the Teacher-Parent Conference. Interviews with individual pupils will also be considered. The primary emphasis will be on the techniques of reporting pupil progress to parents. Enrollment limited to 18. Consent of the instructor is required. Brody.

- (S) HEd 507. **Seminar: Teaching Home Management.** 3 hours fall. Planning learning experiences for teaching effective home management practices in all areas of homemaking education. Prerequisite: Ed 408d or consent of instructor. Moe.
- (U) Ed 507. **Seminar: Use of Radio and Television in the Classroom.** 3 hours fall. To include the techniques of planning, writing, and producing radio and television program series for classroom use. Procedures for administrator, teacher and student use of radio and television broadcasts to supplement class-learning experiences in the school. Tuesday, 6:45-9:30 p.m. Radio Station KBPS, Benson, 546 N.E. 12th Ave., and Channel 10 ETV facilities. Swenson.
- (U) Ed 509. **School Psychology Practicum: Pupil Evaluation of Counseling.** Hours to be arranged. (See Ed 588 below.) Fullmer.
- (C) Hum 511. **Contemporary Developments in the Humanities.** 3 hours spring. Emphasis upon the search for values in the modern world as reflected in forces shaping contemporary philosophies, trends in contemporary literature and developments in language study, with implications for elementary school personnel. Selected readings from leading contemporary thinkers and writers. Bellamy.
- (C) Sc 511. **Contemporary Developments in the Sciences and Mathematics.** 3 hours fall. Emphasis upon the more important phases of contemporary developments in the natural sciences and mathematics. Evaluation in terms of historical background, the true aims of science, and the effect upon society. Review of related regional problems and resources. Selected readings. Postl.
- (C) SSc 511. **Contemporary Developments in the Social Sciences.** 3 hours winter. Considerations of main developments, trends, and thinking of leaders in the various social science areas. Study of processes through which logical conclusions concerning problems of society can be formulated. Readings from selected articles and books highlighting current thinking. Dahl.
- (U) Ed 512. **Research Procedures in Education.** 3 hours spring. 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. Rummel.
- (S) Ed 512. **Research Procedures in Education.** 3 hours fall. 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.
- (C) Ed 518. **Public and Professional Relations.** 3 hours winter. Professional responsibilities and ethics of teachers, as related to the lay public, related social agencies and to the education profession. Procedures in group dynamics, public relations, advisory councils, working with parents and parent groups. Emphasis upon means of achieving the professionalization of teaching. Turner.
- (U) Ed 522. **Secondary-School Curriculum.** 3 hours spring. Overview of the secondary-school curriculum, with emphasis on the various subject fields; organization of the school for curriculum development; educational objectives; the course of study; evaluation of the secondary-school curriculum. Martin (C.).
- (U) Ed 523. **School Activities.** 3 hours fall. Principles and purposes of school activities; pupil participation in school gov-

- ernment; assemblies, clubs, social activities, athletics, speech activities, drama, music and publications; evaluation of activity program.
- (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 the secondary school. Watson.
- (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. Kolson.
- (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 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. Guy.
- (S) Ed 546. **Philosophy of Education.** 3 hours fall.  
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. Ten Pas.
- (U) Ed 552. **Elementary-School Problems.** 3-4 hours spring.  
Selected current problems; issues and theories of elementary education; characteristics of modern teaching; major current trends in elementary education. Leavitt.
- (U) Ed 553. **Elementary-School Curriculum.** 3-4 hours fall.  
A systematic study of the elementary-school curriculum, including pupil needs in everyday life situations, objective, essentials of a good program, varying curriculum designs, organization of learning experiences, evaluation of learning, and appraisal of newer curriculum practices.
- (U) Ed 554. **Elementary-School Supervision and Administration.\*** 3 hours winter.  
Designed primarily for prospective elementary-school principals. Consideration of leadership responsibilities; curriculum improvement practices and supervision; patterns of elementary-school organization; pupil classification, promotion, attendance, marking; school building maintenance; community-school relationships. Oliver, (W.).
- (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. Goldhammer.
- (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. Goldhammer.

\* Will meet either supervision or administration requirement for elementary principal certification (not both).

- (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. Watson.
- (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. Watson.
- (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. Watson.
- (U) Ed 575. **School Finance.** 3 hours spring.  
The problems of school finance and business management; sources of school income, relationship to the state financial structure, budgeting and accounting, as affected 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. Hines.
- (S) Ed 588. **Supervised Counseling Techniques.** 3 hours any term.  
(Maximum credit, 6 hours.)  
Provides actual counseling experience in counseling laboratory. Interviewing; administering, scoring, and interpreting psychological tests; writing case studies. Prerequisite: Ed 485, 487, Psy 474, 475, 476 or equivalent, and consent of instructor. Fullmer.

#### SEE ALSO:

Art  
Health and Physical Education  
Home Economics  
Mathematics  
Music  
Psychology  
Secretarial Science and Business Education

#### Library Science

#### UPPER-DIVISION

- (U) Lib 386. **Introduction to Cataloging and Classification.** 3 hours fall.  
Instruction and practice in simplified procedures for the acquisition, preparation, and classification and cataloging of books and related library materials. Pierron.
- (U) Lib 484. **School Library Administration.** (g) 3 hours fall.  
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. Ladley.
- (U) Lib 487. **Cataloging and Classification.** (G) 3 hours winter.  
Principles and methods of classification and cataloging of books and related materials. Attention to the more difficult problems in the cataloging and recording of material. Prerequisite: Lib 386 or consent of instructor. Pierron.

- (U) Lib 488. **Books and Related Materials for Young People.** (g) 3 hours spring.  
The selection and evaluation of books and other materials for the junior and senior high-school library; a study of adolescent reading interests and the library's role in reading guidance. Ladley.
- (U) Lib 496. **The Library in the Modern Community.** (G) 3 hours spring.  
The history and development of the principal fields of public library service; major trends and problems, with special attention to public library management. Pierron.

### In-Service Training Courses

#### PORTLAND PUBLIC SCHOOLS

The following courses, arranged in cooperation with the Portland Public Schools, are offered for in-service training of Portland teachers. They also are open to other qualified students. Most classes are held Tuesday afternoons, from 4:00 to 6:00 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.

#### UPPER-DIVISION

- (S) IEd 407, 507. **Seminar: Blackboard Sketching for T and I Teachers.**  
2 hours winter. Cannon.

#### GRADUATE

- (S) Ed 507. **Seminar: Guidance in the Classroom.** 2 hours winter.  
Current trends in guidance principles and practices in the elementary and secondary school. McGill.
- (S) HEd 507. **Seminar: The Home Economics Curriculum.** 2 hours spring.  
Consideration of the sociological and psychological foundations of the elementary and secondary school curriculum development. Application of basic principles to curriculum problems in home economics as identified by class members. Individual and small group work in developing and revising curriculum plans and materials for specific situations. O'Reilly.
- (C) Ed 507. **Seminar: Mathematics in the Intermediate and Upper Grades.** 2 hours winter.  
Both content and method will be studied. The emphasis will be upon basic understanding rather than upon computation. Matson.
- (C) Ed 507. **Seminar: Mathematics in the Primary Grades.** 2 hours fall.  
Both content and method will be studied. The emphasis will be upon basic understanding and development of the concept of number. Mosher.
- (U) Ed 507. **Seminar: Recent Developments in Science.** 2 hours winter.  
Designed for elementary teachers who possess a sound general knowledge of science. Theories and interrelationships in such areas as nuclear energy, electro-magnetic phenomena, life phenomena, and gravity will be explored in the light of current developments. Stotler.
- (U) Ed 507. **Seminar: Recent Research in Elementary School Curriculum.** 2 hours fall.  
Review of the research that has been done in curriculum design, meeting the special needs of learners, the process of curriculum development, trends in elementary education, trends in subject matter fields. Planned for elementary principals. Hamilton and staff.

- (U) Ed 507. **Seminar: Unit Preparation and Teaching in Intermediate and Upper-Grades.** 2 hours spring.  
Techniques and materials for unit teaching in the intermediate and upper grades. Problems will be developed to demonstrate unit teaching in a classroom. Schaper.
- (C) Ed 507. **Tests and Measurements for Elementary School Teachers.** 2 hours winter.  
Use combinations of information from teacher-made and standardized tests for purposes of evaluation and diagnosis, grades 3 through 8. Major topics are: (1) construction of teacher-made tests; (2) construction of norming of standardized tests; (3) selecting appropriate standardized tests; and (4) interpretation of test results for classes and for individuals. Ingebo.
- (U) Geog 507. **Seminar: World Regional Geography.** 2 hours each term.  
Study of the concepts and the kinds of material to be considered in a geographical treatment of man's occupancy of the earth; special emphasis is given to the natural and cultural regions of Asia and Africa.
- (U) CL 508. **Latin Seminar: Latin for Teachers.** 2 hours each term.  
Detailed study of appropriate works of Cicero and Vergil, especially the former, with considerable attention to the literary, historical, and general cultural background; advanced study of grammar and prose composition.

### Health and Physical Education and Recreation

#### LOWER-DIVISION

- (P) HE 252. **First Aid.** 3 hours fall or spring.  
Study of first aid and safety procedures—for the individual, schools, athletics, and civilian defense; meets certification standards of the American Red Cross. Holland.

#### UPPER-DIVISION

- (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; safety phases of civil defense program. Holland.
- (U) PE 411, 412, 413. **Physical-Education Workshop.** (G) 3 hours each term.  
A workshop for physical-education teachers in the public schools. Each teacher works out and organizes the complete program for his school in light of the objectives, standards, and purposes of the Oregon physical-education program. Open to men and women. Content of the course is as follows:  
PE 411. Rhythmic and folk dancing.  
PE 412. Games of low organization.  
PE 413. Individual team sports and games.
- (S) SED 441. **Health Education.** (G) 3 hours fall.  
School health services including procedures for the protection, maintenance and promotion of student health, organization of health services, examinations, inspections, screening, communicable disease control, health guidance, special services, emergency care, healthful school living, forms and records. Mayshark.
- (S) SED 442. **Health Education.** (G) 3 hours spring.  
Elementary school health instruction, organization and administration, philosophy and principles of health education including methods, techniques, materials and evaluation. Koski.

- (S) SEd 443. **Health Education.** (G) 3 hours winter.  
Secondary school health instruction, organization and administration, philosophy and principles of health education including methods, techniques, materials and evaluation. Foster.
- (U) PE 472. **Kinesiology.** 3 hours spring.  
Action of muscles involved in fundamental movements, calisthenics, gymnastics, and athletics. Prerequisite: Bi 371, 372. Hultgren.

**GRADUATE**

- (U) PE 550. **Current Movements in Physical Education.** 3 hours fall.  
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) 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.
- (U) Rec 506. **Special Problems: Youth Leadership.** 3 hours fall.  
Analysis, interpretation and problems of group leadership; methods of developing effective leadership; examination of leadership methods; significance and application of the dynamics of group behavior to leadership development of youth. Rodney.
- (U) Rec 507. **Seminar: Program Leadership and Supervision.** 3 hours spring.  
The nature, meaning and principles of leadership and supervision; planning community recreation programs; selection and training of leaders; types of programs considered in relation to sex, age, individual interests, needs, and capacities. Rodney.
- (U) Rec 554. **Problems of Camp Management.** 3 hours winter.  
Analysis of problems under various types of camp sponsorship; principles, techniques, resources, administrative practices; principles and problems of leadership and group behavior. Rodney.

**Home Economics****LOWER-DIVISION**

- (P) FN 205. **Nutrition.** 3 hours winter.  
Nutritive value of foods from the standpoint of newer scientific investigations; selection of an optimal diet for health, present-day problems in nutrition; recent trends in American dietary habits.
- (S) FL 225. **Child Development.** 3 hours winter.  
Growth and development of normal pre-school children. Prerequisite: Psy 207 or 202. Aikin.

**UPPER-DIVISION**

- (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) FN 407. **Seminar: Family Nutrition and Budgeting.** 3 hours winter.  
Designed for registered nurse students (class is scheduled at the University of Oregon Medical School during daytime hours). Wells.

**GRADUATE**

- (S) FN 507. **Seminar: Current Problems in Nutrition.** 3 hours fall.  
Recent research in studies in nutrition, their interpretation and significance. Prerequisite: FN 321 or consent of instructor. Fincke, Hawthorne.

- (S) HEd 507. **Seminar: Teaching Home Management.** 3 hours fall.  
Planning learning experiences for teaching effective home management practices in all areas of homemaking education. Prerequisite: Ed 408d or consent of instructor. Moe.

**SEE ALSO:**

**Art**  
**Education**  
**Sociology**

**Humanities****Art****CLASSES AT MUSEUM ART SCHOOL**

The following classes are offered in cooperation with the Museum Art School. The registration fee is \$22.00 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 \$90.00.) Students register at the Museum Art School, S. W. Park Ave. at Madison St., where the classes are held.

**LOWER-DIVISION**

- (P) AA 201, 202, 203. **Survey of Visual Arts.** 2 hours each term.  
Cultivation of understanding and intelligent enjoyment of the visual arts through a study of historical and contemporary works; consideration of motives, media, and forms. Section I: Tuesday. Section II: Thursday. Course fee \$3.00 in addition to registration fee. 7:30-9:30. Izquierdo, McLarty.
- (P) AA 217. **Lettering.** 1 hour any term.  
Lettering, including a study of historic styles such as Roman, Gothic, Old English, as well as the modern decorative, manuscript, and poster types. Section I: Calligraphy emphasized, Tuesday, Reynolds. Section II: Thursday, McFadden. 7:30-9:30.
- (P) AA 255. **Ceramics.** 2 hours any term.  
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. Open to non-majors. Section I: Monday. Section II: Wednesday. Section III: Thursday. Course fee of \$4.00 in addition to registration fee. 7:30-9:30. Kennedy.
- (P) AA 290. **Painting.** 2 hours any term.  
Instruction in the use of oil color, water color, and other media. 12 term hours required for upper division standing. Section I: Tuesday. Russo. Section II: (Portraiture emphasized), Wednesday. McLarty. Section III: Thursday. Johanson. 7:30-9:30.
- (P) AA 291. **Drawing.** 2 hours any term.  
Training in observation and selection of significant elements. Emphasis on drawing from live models. Registration permitted any term, but it is desirable that the work be started in the fall. 6 term hours required for upper division standing. Section I: Monday. Russo. (Figure drawing class using the human form as model.) Section II: Wednesday. Izquierdo. (Figure drawing class using the human form as model.) Section III: Thursday. Johanson. (Studied observation of many kinds of objects and stress upon careful delineation. All drawing media will be explored.) 7:30-9:30.
- (P) AA 293. **Elementary Sculpture.** 2 hours any term.  
Introduction to materials. Elementary consideration of forms; technical and

compositional exercises in clay and plaster. Section I: Tuesday. Section II: Thursday. Course fee \$4.00 in addition to registration fee. 7:30-9:30. Littman.

- (P) AA 295. **Display Design.** 2 hours any term.

Practical design experience in commercial art lettering, layouts, packaging, and display advertising. Prerequisite: previous training. Wednesday, 7:30-9:30. Lynch.

#### UPPER-DIVISION

- (U) AA 390. **Painting.** 2 hours any term.

Problems in portrait, figure, landscape, and still life, in all media. Prerequisite: 12 term hours in AA 290. Monday, 7:30-9:30. Bunce.

- (U) AA 480. **Graphic Arts.** 2 hours any term.

Principles and methods of lithography; practice in all stages from the preparation of stones to the hand printing of editions. Special emphasis on the medium's contribution to drawing. Course fee \$2.00 in addition to registration fee. Wednesday, 7:30-9:30. Givler.

### Art and Art Education

#### CLASSES AT PORTLAND EXTENSION CENTER

#### LOWER-DIVISION

- (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 195, 196, 197. **Basic Design.** 2 hours each term.

A three-term introductory sequence; series of studio participation exercises involving the basic principles of design. Prasch.

- (P) AA 223. **Elements of Interior Design.** 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.

- (P) AA 255. **Ceramics.** 2 hours winter or 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. Open to nonmajors. Grimm.

- (P) AA 257. **Jewelry and Metalsmithing.** 2 hours fall.

Introduction to the handworking of nonferrous metals—copper, brass, pewter, silver, gold. Development of design for metal objects. Enameling on metal; centrifuge casting; lapidary work. Grimm.

- (P) AA 290. **Painting.** 2 hours any term.

Instruction in the use of oil color, water color, and other media. Registration permitted any term, but it is desirable that the work be started in the fall. 12 term hours required for upper division standing. Heidel.

- (P) AA 291. **Drawing.** 2 hours any term.

Training in observation and selection of significant elements. Registration permitted any term, but it is desirable that the work be started in the fall. 6 term hours required for upper division standing. Muller.

#### UPPER-DIVISION

- (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. Prerequisite: for AA 313 are AA 311 and 312. Colescott and staff.

- (P) AA 363, 364, 365. **Introduction to the History of Art.** 3 hours each term.

An historical survey of the visual arts. Selected works of painting, sculpture, architecture and other arts are studied in relation to the culture producing them. Reynolds.

- (P) AA 414, 415, 416. **Art in the Secondary School.** 3 term hours each term.

A study of the secondary art program: content, teaching materials, methods, techniques of organizing art experiences; the place of art in the curriculum. Lectures, readings, laboratory work, and discussion of classroom problems.

### English Literature and Writing

#### WRITING

#### NON-CREDIT

- (E) Wr 24, 25, 26. **Magazine Writing.** Non-credit (2) each term.

A practical course in subject matter, writing, and marketing in the non-fiction fields of current magazines, trade journals, Sunday newspapers, and special users of literary materials. Powers.

#### LOWER-DIVISION

- (P) Wr 111, 112, 113. **English Composition.** 3 hours each term.

The principles and forms of composition, including the library research paper; effective expression of the student's ideas through impromptu and prepared essays on topics of some significance, with special attention to organization. Mastery of the basic mechanics of English expression is presupposed; students who have deficiencies in fundamental language skills or insufficient preparation for college-level work in careful written English may be required to register for 1 hour of Writing Laboratory in addition to Wr 111. Wr 111 is a prerequisite for Wr 112, and Wr 112 is a prerequisite for Wr 113. **Each part is offered each term.**

- (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. Carlson.

- (S) Wr 214. **Business English.** 3 hours winter or spring.

Analysis and writing of common types of business letters. Prerequisite: Wr 113 or consent of instructor. Winter: Yerian. Spring: Netboy.

#### UPPER-DIVISION

- (U) Wr 321, 322, 323. **Play Writing.** 3 hours each term.

Creative experiment in the writing of plays, with incidental study of models. Analysis and discussion of student work. Prerequisite: consent of instructor. Wilson (A.).

- (S) Wr 324, 325, 326. **Short Story Writing.** 2 hours each term.

Designed to develop proficiency in art of writing short story. Courses may be taken separately. Prerequisite: Wr 113 or consent of instructor. Powers.

- (P) Eng 401. **Special Studies: Verse Writing.** 2 hours spring.

Introduction to the writing of poetry; analysis of class work. Krieger.

- (U) Wr 411. **English Composition for Teachers.** (g) 3 hours winter.

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. Muirden.

#### LITERATURE

#### LOWER-DIVISION

- (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. Fall and Winter: Waller. Spring: 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. Bierman.
- (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 requirements in English. Hart.

#### UPPER-DIVISION

- (P) Eng 311, 312, 313. **Tragedy, Comedy, and Satire.** 3 hours each term.  
Fall: Tragedy. A study of the nature of tragedy and of its expression in various literary forms. Winter: Comedy. The comic view in nondramatic forms, as well as in the stage tradition. Emphasis on English masters, but attention also to classical and continental writers. Principal theories of the comic and of the corresponding literary forms and types. Spring: 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. Dahlstrom.
- (P) Eng 384, 385, 386. **Twentieth-Century Literature.** 3 hours each term.  
British and American Literature since 1900. Johnson (S.).
- (P) Eng 388. **Children's Literature and Library.** 3 hours fall and spring.  
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. Petersen.
- (U) Eng 391, 392, 393. **American Novel.** 3 hours each term.  
Development of the American novel from its beginnings to the present. Oliver (E.).
- (U) Eng 460, 461, 462. **The Romantic Poets.** (G) 3 hours each term.  
Fall: Wordsworth and Coleridge; winter: Scott, Byron, and others. spring: Keats, Shelley, and others. Boggs.
- (U) Eng 484, 485, 486. **Major American Writers: The Realists.** (G) 3 hours each term.  
Fall: Whitman and Twain; winter: Howells and James; spring: Robinson and Eliot. Oliver (E.).
- (U) Eng 488. **Literature for Teachers.** (g) 3 hours spring.  
For students interested in teaching high-school English. Training in comprehension and analysis of representative literary works. Reading 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. Muirden.
- (U) Eng 491. **Introduction to Modern English.** (g) 3 hours fall.  
A general view of modern English vocabulary, grammar, pronunciation, and spelling. Recommended for teachers of English. Muirden.

### Foreign Languages\*

#### FRENCH

##### NON-CREDIT

- (E) RL 1, 2, 3. **Conversational French.** Non-credit (2) each term.  
Beginning exercises in the spoken language. Martines.

##### LOWER-DIVISION

- (P) RL 50, 51, 52. **First-Year French.** 4 hours each term.  
An introduction to French, stressing reading and speaking. Exercises in elementary composition and grammar. Ewer.
- (P) RL 101, 102, 103. **Second-Year French.** 4 hours each term.  
Study of selected texts of representative authors; review of grammar; considerable attention to oral use of the language. Healy.

#### GERMAN and SCANDINAVIAN

##### LOWER-DIVISION

- (P) GL 50, 51, 52. **First-Year Germany.** 4 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.
- (U) GL 60, 61, 62. **First-Year Norwegian.** 3 hours each term.  
Designed to give a thorough grammatical foundation in idiomatic Norwegian, with emphasis on both the reading and speaking of the language. Halvorson.
- (P) GL 101, 102, 103. **Second-Year German.** 4 hours each term.  
Review of grammar and composition. Reading of selected texts of representative authors. Conversation. Farrisius.

#### ITALIAN

##### NON-CREDIT

- (E) RL 7, 8, 9. **Conversational Italian.** Non-credit (2) each term.  
Beginning exercises in the spoken language. Hatzantonis.

#### RUSSIAN

##### LOWER-DIVISION

- (P) SL 50, 51, 52. **First-Year Russian.** 4 hours each term.  
The elements of the Russian language Elementary reading, composition, and conversation. Krueger.
- (P) SL 101, 102, 103. **Second-Year Russian.** 4 hours each term. Juodeika.

#### SEMITIC

##### NON-CREDIT

- (E) Sml 1, 2, 3. **Introduction to Arabic.** Non-credit (2) each term.  
Elementary oral and written exercises in the language. Farah.

#### SPANISH

##### NON-CREDIT

- (E) RL 4, 5, 6. **Conversational Spanish.** Non-credit (2) each term.  
Beginning exercises in the spoken language. Kraft.

##### LOWER-DIVISION

- (P) RL 60, 61, 62. **First-Year Spanish.** 4 hours each term.  
An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Herman.

\* Foreign Language classes meet one evening a week as follows:

Non-credit classes (2) .....	6:45-8:40 p.m.
3 credit-hour classes.....	6:45-9:30 p.m.
4 credit-hour classes.....	6:15-9:30 p.m.



- (P) RL 107, 108, 109. **Second-Year Spanish.** 4 hours each term.  
Intensive oral and written exercises designed to help the student acquire accurate and fluent use of Spanish. Study of selected texts of representative authors. Vecchio.

**SEE ALSO:** CL 508. *Latin Seminar: Latin for Teachers*, page 39.

### General Studies

(Master of Science in General Studies: See Page 12)

Portland Extension Center Adviser: DR. LEROY R. PIERSON\*

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

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

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

### Humanities

#### UPPER-DIVISION

- (P) Hum 356. **The Art of the Film.** 2 hours fall.  
A general study of the principles underlying the language of film. A discussion of the processes of filmmaking and the creative problems of filmmakers; the camera as an expressive instrument, editing; the dramaturgy of sound; the use of actors, music, etc. Selected motion pictures are screened and analyzed. Prerequisite: upper-division standing or consent of instructor. Deinum.
- (P) Hum 357. **Film and Society.** 2 hours winter.  
The various effects of film on society and, conversely, film as the product reflecting certain aspects of society; film and behavior; the phenomenon of Hollywood; film and mass culture; film as projection of national character; the film in the education; the children's film; censorship; documentary film; etc. Screening of representative films. Prerequisite: upper-division standing or consent of instructor. Deinum.
- (P) Hum 358. **Films and Their Directors.** 2 hours spring.  
A survey and analysis of current trends of the film internationally, with emphasis on the work of great directors; the American film since television; the development of Italian neo-realism; the Japanese film renaissance; problems of the British film; the film in the Soviet Union; etc. Screening of pertinent motion pictures. Prerequisite: upper-division standing or consent of instructor. Deinum.

#### GRADUATE

- (C) Hum 511. **Contemporary Developments in the Humanities.** 3 hours spring.  
Emphasis upon the search for values in the modern world as reflected in forces shaping contemporary philosophies, trends in contemporary literature and developments in language study, with implications for elementary school personnel. Selected readings from leading contemporary thinkers and writers. Bellamy.

### Journalism

#### LOWER-DIVISION

- (E) J 210. **Journalism for Business and Organization Editors.** 2 hours spring.  
Techniques and principles of journalism likely to be utilized by "non-professionals"—i.e., individuals in non-newspaper businesses or organizations who are responsible for house-organs, newsletters, annual reports, sales brochures,

\* On sabbatical leave, fall 1960.

technical manuals, publicity, etc. Elements of news-writing, typography, copy-fitting, copyreading and proofreading, layout and design, printing processes, etc. Not open, for credit, to journalism majors. Diel.

#### UPPER-DIVISION

- (U) J 341. **Principles of Advertising.** 3 hours fall.  
Advertising as a factor in the distributive process; the advertising agency; the "campaign"; the function of research and testing; the selection of media—newspapers, magazines, broadcasting, outdoor advertising, direct mail. Wales.
- (U) J 444. **Advertising Problems.** (G) 3 hours winter.  
The student is given an opportunity to cultivate his judgment through consideration of actual marketing and merchandising problems, in the solution of which advertising may be a factor. Prerequisite: J 341. Wales.
- (U) J 457. **The Press and Related Media.** (g) 3 hours fall.  
Analysis of the role of newspapers, magazines, motion pictures, radio, and television in a democratic society; the problem of improving the relationship between the public and the press in the mass-communication process. Not open to journalism majors. Price.
- (U) J 459. **Publicity and Public Relations.** (g) 3 hours spring.  
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. Wales.

### Landscape Architecture

#### LOWER-DIVISION

- (S) LA 279. **Home-Ground Planning.** 2 hours fall.  
Organization and improvement of rural and urban home grounds. Fredeen.
- (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. Fredeen.

#### UPPER-DIVISION

- (S) LA 326. **Plant Materials.** 3 hours spring.  
Trees, shrubs, vines, and perennials and their uses in plant composition. Rickard.

### Music

#### LOWER-DIVISION

- (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. Turrell.
- (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

- (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.

- (P) Mus 381, 382. **Music Fundamentals.** 3 hours fall and winter.  
A musical background for the elementary teacher to build a basic musicianship through experiences that apply to the teaching of music in the elementary classroom. Required of majors in elementary education. Mus 381 offered fall only; Mus 382 offered fall and winter. Albertson, Lobaugh.
- (P) Mus 383. **Music Fundamentals** (Teacher Education). 3 hours spring.  
Experiences in teaching the various music activities found in the elementary classroom. Required of majors in elementary education. Prerequisite: Mus 381, 382. Albertson, Lobaugh.
- (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.
- (P) Mus 396. **Orchestra.** 1 hour any term.  
Six hours maximum credit. Stehn.
- (U) Mus 441, 442, 443. **Advanced Conducting.** (G) 3 hours each term.  
The routine and technique of conducting. Problems of the symphony orchestra and choral groups. Score reading. Actual practice in conducting. Prerequisite: Mus 211, 212, 213 or equivalent; consent of instructor. (Qualified students may register for any part of the sequence any term.) Bellugi.
- (P) Mus 490. **Applied Music.** 1 to 2 hours any term.  
Senior year. Continuation of Mus 390, which is prerequisite. Stehn.

### GRADUATE

- (U) MuE 535. **Music in the Senior High School.** 3 hours fall.  
Curricula, organization, methods, and materials in all aspects of senior high school music, both vocal and instrumental. Nye, (R.).

### Philosophy

#### LOWER-DIVISION

- (P) Phl 201. **Problems of Philosophy.** 3 hours fall or winter.  
An introduction to some of the persistent problems and great systems of philosophy through reading and discussion of selected source materials. Newhall.
- (P) Phl 202. **Elementary Ethics.** 3 hours winter.  
The course develops the idea of man as a moral agent and considers critically various interpretations of the ideals and standards of moral conduct. Newhall.
- (P) Phl 203. **Elementary Logic.** 3 hours spring.  
An introductory study of the standard forms of reasoning. Exercise in recognizing, analyzing, criticizing, and constructing the main types of argument and proof. Newhall.
- (P) Phl 204. **Elementary Aesthetics.** 3 hours spring.  
An introductory study of theories of beauty and art, and interpretations of aesthetic experience. There will be some consideration of the relation of the aesthetic interest to other human interests such as the moral, scientific, and religious interests.

#### UPPER-DIVISION

- (P) Phl 301, 302, 303. **History of Philosophy.** 3 hours each term.  
A study of Western philosophy from the pre-Socratic Greek philosophers to Hegel. Polonoff.

### Religion

#### UPPER-DIVISION

- (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. Hovland.
- (S) R 462. **History of Great Religions.** 3 hours spring.  
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 winter.  
Bearing of psychology on religious thought and action, both past and present. Unsoeld.

### Speech and Drama GENERAL SPEECH

#### LOWER-DIVISION

- (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, 112, 113
- (P) Sp 114. **Speech Development (Voice and Diction).** 3 hours fall.  
Speech projects designed to improve general speech personality and communication, and to develop better voice and diction. Specifically designed to help those people who wish to have clear and attractive speech by improving their voice quality and the clarity of their enunciation. This will be particularly valuable for teachers and other professional people, salesmen, receptionists, public speakers, club leaders, etc. Gibson.
- (U) 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 materials 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 winter.  
Rules of parliamentary procedure; practice in application; forming temporary and permanent organizations; preparation of constitutions, by-laws. Students serve as chairman and secretary and learn to conduct meetings efficiently. Roberts.
- UPPER-DIVISION**
- (P) Sp 322. **Argumentation, Discussion, and Persuasion.** 3 hours spring.  
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.
- (P) 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. Blakeley.
- (U) Sp 371. **Speech Science.** 3 hours winter.  
A study of the anatomy, psychology and physics of speech. English.

- (P) Sp 413. **Teaching Speech in the Elementary School.** 3 hours winter.  
Methods and materials. Instruction in speech practices and projects, suitable for the elementary classroom. Attention to the needs of children with both normal and defective speech. Recommended for all prospective elementary teachers. Special emphasis is given to speech projects and demonstrations in speech improvement and development. English.

### SPEECH CORRECTION

#### UPPER-DIVISION

- (U) Sp 481, 482, 483. **Speech Pathology.** (G) 3 hours each term.  
Symptoms, causes and treatment of speech abnormalities. First term: functional articulatory defects, delayed speech, emotional speech disorders. Second term: organic speech disorders including deviations due to congenital malformation, injury, deafness and neurological impairment. Third term: public school speech correction; specific clinical techniques in the diagnosis and treatment of major speech problems. Prerequisite: Sp 370, 371 or consent of instructor. (Course must be taken in sequence: Sp 481, repeated winter: Sp 482, repeated spring. Sp 483 is available spring and winter terms for students who have completed Sp 481, 482.) Lillywhite, Blakely and staff.
- (U) Sp 484, 485, 486. **Clinical Speech Therapy.** (G) 2 hours fall and spring.  
Supervised clinical work with speech defective children and adults enrolled for counseling, testing, and treatment in the Speech and Hearing Clinic; weekly group discussion of case histories and techniques. Prerequisite: Sp 481, 482, 483 or consent of instructor. (Sp 484, 485 and 486 are all available in each of the two terms shown above.) Lillywhite and staff.
- (U) Sp 487. **Audiology.** (First Term) (G) 3 hours winter.  
The auditory function, hearing impairment, and the education or re-education of persons with hearing loss. First term: anatomy of the ear, psychophysics of hearing, physical attributes of speech sounds, types and causes of hearing loss, and speech involvements of deafness. Prerequisite: Sp 370, 371 or consent of instructor. Young.
- (C) Sp 495. **Principles and Techniques of Speech Improvement.** (g) 3 hours.  
Designed to survey the field of speech defects and to acquaint classroom teachers with an understanding of typical speech defects among children and the basic techniques for their prevention and correction. Emphasis is placed on speech problems which classroom teachers may be called upon to manage. Includes analysis of speech mechanics, recognition of defects, formation of sounds, testing devices and techniques for remediation and prevention. (Offered by arrangement with public school systems. Not offered at Portland Center.)

#### GRADUATE

- (U) Sp 507. **Seminar and Practicum in Aphasia.** 3 hour 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. Consent of instructor required. 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. Consent of instructor required. Lillywhite.

### RADIO and TELEVISION BROADCASTING

#### LOWER-DIVISION

- (P) 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.

- (S) Sp 264. **Radio-Television Projects.** 2 hours any term.  
Educational projects in radio-television under supervision, chosen from a variety of experiences in microphone interpretation, production, planning, script preparation, studio acoustic practices; practical laboratory experimentation under broadcast conditions.

#### UPPER-DIVISION

- (U) Sp 446. **Radio-Television Programming.** (G) 3 hours spring.  
Analysis of values, trends, and procedures in broadcast programming. Problems in planning program structure to meet community and public service needs. Prerequisite: consent of instructor. Swenson.

### THEATRE ARTS

The following program is offered in cooperation with the Portland Civic Theatre. The courses are open to all qualified students.

Some of the classes meet at the Civic Theatre and some at Portland Extension Center. Meeting times and places are detailed in the Center's Class Schedule which is published approximately a month in advance of each academic term.

All registration, whether credit or non-credit, must be completed at Portland Extension Center in accordance with the Center's established registration periods and procedures.

The Portland Civic Theatre is at 1530 S.W. Yamhill St., Portland.

#### LOWER-DIVISION

- (S) Sp 240. **Creative Drama for Elementary Teachers.** 3 hours fall.  
Creative dramatics in elementary classroom; principles and methods of developing original dramatization with children; methods in acting, staging, and costuming for assembly programs; correlation with classroom studies. Wilson (A.).
- (S) Sp 247, 248, 249. **Community Drama.** 3 hours each term.  
Training for participation and leadership in community dramatics; community-drama idea; play selection; stage technique and acting; costume and makeup; short cuts in craftsmanship; directing and play production. Prerequisite for Sp 247: Sp 122; for Sp 248: none; for Sp 249: Sp 247 or consent of instructor. Peppertine.
- (U) Sp 267, 268. **Appreciation of Drama.** 2 hours winter and spring.  
Study of design, acting, playwriting, criticism. Appreciation of the drama, and radio and television play as art forms. Wilson (A.).

#### UPPER-DIVISION

- (U) Wr 321, 322, 323. **Play Writing.** 3 hours each term.  
Creative experiment in the writing of plays, with incidental study of models. Analysis and discussion of student work. Prerequisite: consent of instructor. Wilson (A.).
- (U) Sp 351. **Technique of Acting: Voice.** 3 hours fall.  
Problems in the use of voice in dramatic roles. Hjert.
- (U) Sp 352. **Technique of Acting: Characterization.** 3 hours winter.  
Problems in the analysis and presentation of characters. Hjert.
- (U) Sp 353. **Advanced Acting.** 3 hours spring.  
Advanced problems in acting technique; study, rehearsal, and performance. Prerequisite: Sp 251, Sp 351, Sp 352; consent of instructor. Hjert.
- (U) Sp 461. **Introduction to Scene Design.** (G) 3 hours fall.  
Basic principles and techniques of theatrical design for the school and community theatre. Prerequisite: Sp 261, 262, 263 or consent of instructor. Waters.

- (U) Sp 462. **Styles in Scene Design.** (G) 3 hours winter.  
History of scene design; historical styles and their use in the design of productions of theater classics; twentieth-century approaches to production design; the designer's analysis of the play script. Prerequisite: Sp 461. Waters.
- (U) Sp 463. **Advanced Problems in Scene Design.** (G) 3 hours spring.  
Selected problems in the design of dramatic production. Prerequisite: Sp 461, Sp 462; consent of instructor. Waters.

## Science, Engineering and Mathematics

### Biology

#### LOWER-DIVISION

- (P) Bi 204, 205, 206. **General Zoology.** 4 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. Three lectures; two 2-hour laboratory periods. Macnab.

#### UPPER-DIVISION

- (U) Bi 312, 313. **Human Physiology.** 3 hours fall and winter.  
Required for majors in physical education, elective for others qualified. 2 lectures; 1 three-hour laboratory period. Prerequisite: one year of chemistry. Hultgren.

#### GRADUATE

- (S) Z 554. **Invertebrate Zoology.** 3 hours winter.  
Characteristics, life histories, and ecology of common invertebrate animals which are readily available in high school biology laboratories. Forms commonly brought in for identification stressed. Prerequisite: two years of biological science. Macy.
- (S) Bot 572. **Morphology and Anatomy of Seed Plants.** 3 hours spring.  
Structure, development, and reproduction of seed plants. Prerequisite: two years of biological science. Deep.

### Chemistry

#### LOWER-DIVISION

- (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; one 3-hour laboratory period. Johnson (C.), Marco, MacDonald.
- (P) Ch 232, 233. **Quantitative Analysis.** 5 hours winter and spring.  
Fundamental principles and laboratory practice. Prerequisite: Ch 106, 206, or equivalent. Three lectures; two 3-hour laboratory periods. Spencer.

#### UPPER-DIVISION

- (P) Ch 334, 335, 336. **Organic Chemistry.** 4 hours each term.  
Comprehensive study of the chemistry of the compounds of carbon. Prerequisite: Ch 106 or 206. Three lectures; one 3-hour laboratory period. Ferguson, Roberti.

### Engineering\*

#### GENERAL ENGINEERING

##### LOWER-DIVISION

- (P) GE 101, 102, 103. **Engineering Concepts.** 3 hours each term.

\* See footnote on following page.

Lectures and elementary problems dealing with the basic concepts common to all fields of engineering; engineering analysis and methods of work. Prerequisite: Mth 100 or equivalent. One lecture, one recitation, two 2-hour computation periods.

- (P) GE 111, 112, 113. **Engineering Graphics.** 2 hours each term.

Fundamental principles and the rules of composition of the graphic language of engineering. Two 3-hour periods.

#### UPPER-DIVISION

- (S) GE 405. **Aspects of Engineering.** 3 hours fall.

Design implications of human engineering concepts; study of the parameters of decision making and related parameters involving human relations economics and statistics. Riggs.

#### CHEMICAL ENGINEERING

##### LOWER-DIVISION

- (S) ChE 263. **Assaying.** 2 hours winter.

Commercial methods of wet and dry assay of ores, metallurgical products. Prerequisite: Quantitative analysis. *Enrollment limited to 16. Registration only by application made to the instructor after Dec. 12.* Hoagland.

#### CIVIL ENGINEERING

##### UPPER-DIVISION

- (S) CE 405, 405a, 405b. **Reading and Conference: Principles of Kinematics of Solid and Fluid Systems.** 3 hours each term.

Fall: Principles of Kinematics of Solid and Fluid Systems; Force, Work, Energy, Friction, and Impact. Winter and spring: Applications to Compressible and Incompressible Fluids, Laws of Similitude. Prerequisite: CE 213, Mth 203 or equivalent. Pritchett.

##### GRADUATE

- (S) CE 530. **Structural Stresses.** 3 hours fall.

Stress analysis of space frames and continuous frames; use of elastic equation and distributed moments. McClellan.

- (S) CE 532. **Bridge Design.** 3 hours winter.

Problems in location, economic selection, and design of steel bridges. McClellan.

- (S) CE 533. **Analysis and Design of Steel Structures.** 3 hours spring.

Problems in analysis and design of elastic concrete structures. Prerequisite: CE 483, 485 or consent of instructor. McClellan.

#### ELECTRICAL ENGINEERING

##### UPPER-DIVISION

- (S) EE 405. **Reading and Conference: Recent Developments in Electrical Engineering.** 3 hours each term.

Course designed as a refresher course in electrical engineering. Looney, Stone.

##### GRADUATE

- (S) EE 535, 536, 537. **Circuits & Fields.** 3 hours each term.

Mathematical analysis of circuit response and of electromagnetic radiation and propagation. Magnusson, Oorhuys.

\* Courses listed under Chemical, Civil, Electrical, Industrial and Mechanical Engineering are designed for advanced engineering students. Courses with 400 (G) and 500 numbers are graduate courses and may be used for graduate credit if the student's graduate program is approved by the department major and the student is accepted for graduate work. Students interested in lower-division work toward an engineering degree should see also, chemistry, mathematics, and physics.

- (S) EE 541, 542, 543. **Power Systems.** 3 hours each term.  
Advanced study of electric power generation, transmission, distribution, and utilization. Engle.

### INDUSTRIAL ENGINEERING

#### GRADUATE

- (S) IE 490. **Industrial Supervision Principles.** (G) 3 hours fall.  
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.
- (S) IE 491, 492. **Production and Planning Control.** (G) 3 hours winter and spring.  
Quantitative analysis and economic optimum selection of machines, equipment, and labor; quantitative control in inverse relationships, least cost combination in purchasing quantities and in seasonal production. Prerequisite: Calculus and IE 391, 392, 393 or consent of instructor. Winter: Waage. Spring: Engesser.

### MECHANICAL ENGINEERING

#### LOWER-DIVISION

- (P) ME 217, 218, 219. **Mechanics of Materials.** 3 hours term.  
Fall: Forces and force systems; characteristics of resultants and of equilibrium conditions of rigid bodies, especially machine and structural elements, numerous problems. Winter and spring: Mechanics as applied to analysis of stress and strain distribution in machine and structural elements; rational design possibilities. Prerequisite: calculus previously or concurrently. Two recitations; one 2-hour computation period.

#### UPPER-DIVISION

- (S) ME 405. **Reading and Conference: Introduction to Theory of Elasticity.** 3 hours fall.  
Stress determination from strain measurement, structural similitude, strain gauges. Levinson.
- (S) ME 405. **Reading and Conference: Vibrations as Applied to Mechanical Engineering.** 3 hours winter.  
General theory of systems having one or more degrees of freedom; vibration isolation and absorption. Wilson (R. E.).

#### GRADUATE

- (S) ME 505. **Reading and Conference: Materials.** 3 hours spring.  
Critical study of specification and testing techniques, metals, ceramic materials, plastics, electrical insulating materials, rubber, and fabrics. Prerequisite: ME 313. Heath.

### General Science

#### LOWER-DIVISION

- (P) GS 101, 102, 103. **Foundations of Biological Science.** 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: one 3-hour laboratory period. Winchell.
- (P) GS 104, 105, 106. **Foundations of Physical Science.** 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; one 3-hour laboratory-recitation period. Lange, Payne.

#### UPPER-DIVISION

- (P) GS 310. **Origin and Development of Scientific Concepts.** 3 hours fall.  
Discussions and readings on the basic concepts in the physical, mathematical, biological, and earth sciences. The origin and development of concepts which have been of major significance in determining our ideas and course of action concerning the nature of the world, matter, living things, and numbers is related to the framework of their times, and to the growth of our scientific civilization. Allen.
- (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.
- (P) GS 410. **The Meaning of Evolution.** 3 hours winter.  
A discussion of the mechanics of evolution with emphasis on social and ethical considerations. Clarkson.

#### GRADUATE

- (C) Sc 511. **Contemporary Developments in the Science and Mathematics.** 3 hours fall.  
Emphasis upon the more important phases of contemporary developments in the natural sciences and mathematics. Evaluation in terms of historical background, the true aims of science, and the effect upon society. Review of related regional problems and resources. Selected readings. Postl.
- (S) G 552. **Geology of the Northwest.** 3 hours fall.  
Origin and geologic history of the physical features in the Pacific Northwest. Bostwick.
- (S) Z 554. **Invertebrate Zoology.** 3 hours winter.  
Characteristics, life histories, and ecology of common invertebrate animals which are readily available in high school biology laboratories. Forms commonly brought in for identification stressed. Prerequisite: two years of biological science. Macy.
- (S) Bot 572. **Morphology and Anatomy of Seed Plants.** 3 hours spring.  
Structure, development, and reproduction of seed plants. Prerequisite: two years of biological science. Deep.

#### SEE ALSO:

Biology  
Geology

### Geology

#### LOWER-DIVISION

- (S) G 200. **Physical Geology.** 3 hours fall.  
Elective short course on earth materials, processes and history. Hopson.
- (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. Mason, Schlicker.
- (P) G 204, 205, 206. **Geology Laboratory.** 1 hour each term.  
Laboratory and field work to accompany G 210, 202, 203 for all students desiring practical knowledge of geology. One 3-hour laboratory period. Hopson.

#### UPPER-DIVISION

- (P) G 312, 313, 314. **Mineralogy and Rock Study.** 3 hours each term.  
Crystal forms, physical and chemical properties; identification of economic

and rock-forming minerals; common rock types of special industrial importance. Prerequisite: one year of physical science. One two-hour lecture; one two-hour laboratory. Van Atta.

- (S) G 325. **Engineering Geology.** 3 hours spring.  
Application and use of geology in engineering and industrial arts. Prerequisite: upper division standing. Some field trips required. Mason.
- (S) G 350. **Rocks and Minerals.** 3 hours winter.  
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 spring.  
Origin and geologic history of landscape features in Oregon. Prerequisite: upper division standing. Two lectures; one 3-hour laboratory period. Hopson.

#### GRADUATE

- (S) G 552. **Geology of the Northwest.** 3 hours fall.  
Origin and geologic history of the physical features in the Pacific Northwest. Bostwick.

#### Mathematics

##### LOWER-DIVISION

- (P) Mth 100. **Intermediate Algebra.** 4 hours fall or winter.  
Prerequisite: one year of high-school algebra, or Mth 60. Lawrence.
- (P) Mth 101. **College Algebra.** 4 hours fall or winter.  
Prerequisite: one and one-half years of high-school algebra, or Mth 100. Dodge (R. O.).
- (P) Mth 102. **Plane Trigonometry.** 3 hours winter or spring.  
Prerequisite: Mth 101. Dodge (R.O.).
- (P) Mth 103. **Analytic Geometry.** 4 hours spring.  
Prerequisite: Mth 102. Dodge (R.O.).
- (P) Mth 111. **Mathematics for Elementary Teachers.** 3 hours winter or spring.  
Treatment of historical aspects of mathematics, social uses and relationships, mathematical principles, development of problem-solving, and proficiency in the fundamental skills of mathematical processes.
- (P) Mth 201, 202, 203. **Differential and Integral Calculus.** 4 hours each term.  
Standard sequence for students of science and engineering. Prerequisite: Mth 103. Dodge (R. O.), Byrne.

##### UPPER-DIVISION

- (P) Mth 412, 413, 414. **Higher Algebra.** 3 hours each term.  
Basic concepts of algebra, theory of equations, metrics, linear transformations, quadric forms. Prerequisite: Mth 203 or consent of instructor.
- (P) Mth 421, 422, 423. **Applied Mathematics.** 3 hours each term.  
Fundamental concepts of ordinary and partial differential equations, Fourier series, and vector analysis with applications to the physical sciences and engineering. Prerequisite: Mth 203 or equivalent.
- (P) Mth 425, 426, 427. **Elements of Statistical Methods.** 3 hours each term.  
A basic course in statistical analysis including presentation of data, design of experiments, sampling theory, tests of significance, analysis of variance, and correlation. Prerequisite: Mth 100 and junior standing or consent of instructor.

#### Oceanography

##### LOWER-DIVISION

- (S) OC 331. **Introduction to Oceanography.** 3 hours winter.  
Elective nontechnical course designed to give students a broad general back-

ground. Emphasis on relationship between oceanography and other fields. Prerequisite: junior standing. El Wardani.

- (S) OC 432. **Physical Oceanography.** (G) 3 hours spring.  
Physical processes in ocean and estuaries; some field work. Prerequisite: senior or graduate standing, one year of mathematics, one year of physics. OSC staff.

#### Physics

##### LOWER-DIVISION

- (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.** 5 hours each term.  
Standard college physics. Three lectures: one 3-hour laboratory period. Prerequisite: Mth 102 or consent of instructor.

#### Social Science

##### Anthropology

##### LOWER-DIVISION

- (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 degrees of elaboration among different groups of men; its process of growth and expansion.

##### UPPER-DIVISION

- (P) Anth 341. **The Individual and Culture.** 3 hours fall.  
The role of culture in personality formation. Personality in relation to whole cultures, sub-cultures, and occupational, religious, and status groups. The role of the individual in culture change. Prerequisites: 6 hours in Anthropology, Sociology, or Psychology.
- (P) Anth 361. **Race and Culture.** 3 hours winter.  
Classification and distribution of human races; cultural factors in racial evolution; influence of mating, marriage, population size, territorial grouping and social attitudes upon race formation and distribution; race and mental endowment; attitudes towards race in human relations; and critique of racist theories. Prerequisites: Upper division standing and 9 hours in Anthropology, Sociology, or Psychology.
- (P) Anth 381. **Language and Culture.** 3 hours spring.  
The nature of language and its functions in human society and culture. Language in relation to status groupings, social classes, occupations, nationalism, inter-cultural and inter-national relations. Relation of linguistic structure to thought processes and communication. Prerequisite: Upper division standing and 9 hours in Anthropology or Sociology.

#### Agricultural Economics

##### UPPER-DIVISION

- (S) AEc 331. **Food and Agriculture.** 3 hours fall.  
Role of agriculture in meeting population and industrial growth in a developing economy; influence of technology in production and marketing. Hollands.
- (S) AEc 342. **Agricultural Cooperation.** 3 hours spring.  
Organization, financing, management, price policies, membership and public

relations, and factors affecting success of cooperative associations with emphasis on Oregon cooperatives. Prerequisite: AEc 341 or consent of instructor. Korzan.

### Economics

#### LOWER-DIVISION

- (P) Ec 201, 202, 203. **Principles of Economics.** 3 hours each term.  
Principles that underlie production, exchange, distribution, etc. Prerequisite: sophomore standing. Blumel, Elkinton.

#### UPPER-DIVISION

- (P) Ec 325. **Labor Economics.** 3 hours fall.  
Conditions of labor since the industrial revolution. The labor market; wages, hours, conditions of work, unemployment. Prerequisite: Ec 201, 202, 203. Lovell (H.).
- (P) Ec 326. **Organized Labor.** 3 hours winter.  
History of the labor movement, its philosophy and growth. Present structure and position of organized labor. Prerequisite: Ec 201, 202, 203. Lovell (H.).
- (P) Ec 327. **Labor Legislation.** 3 hours spring.  
Labor legislation in the United States, problems facing the employer, employee, and the public that call for regulation through public authority. Prerequisite: Ec 201, 202, 203. Lovell (H.).
- (U) Ec 417. **Contemporary Economic Problems.** (g) 3 hours spring.  
Contemporary economic conditions and problems; analysis of policies and practices affecting such problems. Prerequisite: Ec 201, 202, 203. Halley.
- (P) Ec 428. **Economics of Business Enterprise.** 3 hours fall.  
Economics of the production unit to include the functions of the business unit in our economy. It includes the problems of the production units, changing price and output policies, its ecology, and its place in competitive society. Prerequisite: Ec 201, 202, 203. Halley.
- (P) Ec 486. **Economic Development of the United States.** 3 hours winter.  
Origin and development of economic institutions including industry, agriculture, commerce, transportation, labor, and finance. Analyzes the economic progress of the United States. Prerequisite: Ec 201, 202, 203. Halley.

### Geography

#### LOWER-DIVISION

- (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. Ashbaugh, Newhouse.
- (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.

#### UPPER-DIVISION

- (U) Geog 320. **Political Geography.** 3 hours winter.  
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. Heiser.
- (P) Geog 323. **Geography of the Pacific Northwest.** 3 hours fall.  
Analysis of human and economic geography of Pacific Northwest with special attention to Oregon. Prerequisites: Geog 105 or Geog 208, 209, 210. Dart.

- (P) Geog 414. **Geographic Background of American History.** 3 hours spring.  
The influence of geographic factors on colonization, settlement patterns and westward movement in America. Courtney.
- (U) Geog 425. **Geography of Conservation.** (g) 3 hours spring.  
The geographic distribution of American resources; methods for maintaining the optimum resource use. Brooks.
- (U) Geog 426. **Geography of Europe.** (G) 3 hours fall.  
Some of the special problems of Europe today studied in light of geography of the continent. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Heiser.
- (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. Dart.
- (U) Geog 432. **Geography of Africa.** (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. Brooke.
- (U) Geog 461, 462. **Geography of Latin America.** (G) 3 hours fall and winter.  
Regional geography of the Latin American countries. Fall: South America; Winter: Mexico and the Caribbean area. Prerequisite: 6 hours in lower-division geography courses or consent of instructor. Courtney.

**SEE ALSO:** Geog 507. **Seminar: World Regional Geography, Page 39.**

### History

#### LOWER-DIVISION

- (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. Cox, White.
- (P) Hst 201, 202, 203. **History of the United States.** 3 hours each term.  
From colonial times to the present day. Dahl, Crookham.

#### UPPER-DIVISION

- (U) Hst 341, 342, 343. **Europe since 1789.** 3 hours each term.  
Political, social, economic, and cultural trends from the French Revolution to the present. Fall: 1789 to 1870; winter: 1870 to 1918; spring: 1918 to the present. LeGuin.
- (P) Hst 370, 371. **Great Americans in Thought and Action.** 3 hours fall and winter.  
Personality and leadership of men and women who have been outstanding in various fields of endeavor, great movements, and critical periods. Gilmore.
- (U) Hst 447, 448, 449. **History of Russia.** (G) 3 hours each term.  
Fall: the Kievan state and the emergence of Muscovy. Winter: creation of the Russian Empire, political, social, and economic developments. Spring: revolutionary Russia, 1861 to the present. Dmytryshyn.
- (U) Hst 457. **The Era of American Sectional Conflict.** (G) 3 hours fall.  
Forces, events, and persons that contributed to unity and particularism in the United States during the first half of the nineteenth century. Hoffmann.
- (U) Hst 458. **The Era of the Civil War.** (G) 3 hours winter.  
Intensive study of the critical decade before the Civil War and of the course of that conflict. Hoffmann.
- (U) Hst 459. **The Era of Reconstruction.** (G) 3 hours spring.  
Problems of the tragic era following the Civil War; their continuing effects to the end of the nineteenth century. Hoffmann.

- (U) Hst 463. **History of Canada.** (G) 3 hours winter.  
History of Canada from colonial times to the present. White.
- (U) Hst 465. **British Empire.** (g) 3 hours spring.  
History of the British Empire since 1815; evolution of colonial nationalism, development of the commonwealth ideal. First term: Australia, New Zealand, South Africa; second term: India and the crown colonies. White.
- (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 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. Gilmore.
- (U) Hst 497, 498, 499. **History of Japan.** (G) 3 hours each term.  
History of Japan, from its beginnings to the present. Webb.

### Political Science

#### UPPER-DIVISION

- (P) PS 320, 321. **World Politics.** 3 hours winter and spring.  
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.
- (U) PS 411, 412, 413. **Public Administration and Policy Development.** (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. Mayer.
- (P) PS 428. **Communist Governments.** 3 hours fall.  
A study of political institutions and ideological principles in the Communist world, with special emphasis on the USSR and the People's Republic of China. A brief examination of Soviet policies, foreign and domestic. Widmayer.
- (U) PS 433, 434. **Political Theory: The American Tradition.** (G) 3 hours winter and spring.  
The development of American thought about government and its proper relation to life, liberty, and property. Haggard.
- (P) PS 450. **Dynamics of the Political Process: Political Parties and Election Problems.** 3 hours fall.  
The nature, organization, and operation of political parties; election and recall of officers; proportional representation; initiative and referendum; the role of public relations and advertising agencies. Prerequisite: PS 201, 202, 203 or consent of instructor. Haggard.

### Psychology

#### LOWER-DIVISION

- (P) Psy 201, 202, 203. **General Psychology.** 3 hours each term.  
Basic principles and theories of behavior. Discussion of individual differences, intelligence, aptitudes, methods of psychological measurement and testing, drives and motives, emotions and reactions to stress, perception, learning, thinking, reasoning, personality; the response mechanism, communication processes, attitudes and social processes, frontiers of psychology. Prerequisite: Sophomore standing. *Beginning students may enter any part of the sequence.*

#### UPPER-DIVISION

- (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, 202. Aikin, Sullivan, Wesley.
- (P) Psy 318. **Applied Psychology.** 3 hours winter.  
A survey of the ways in which psychology is applied in advertising, salesmanship, market research, measurement of opinion, occupational placement, development of personal efficiency. Prerequisite: Psy 201, 202, 203. Wesley.
- (P) Psy 335. **Counseling and Testing.** 3 hours fall.  
A survey of counseling and interviewing techniques, use of psychological tests in support of counseling procedures. Prerequisite: Psy 201, 202, 203. Smith, (R.).
- (P) Psy 345. **Psychology of Motivation.** 3 hours fall.  
Conditions, principles, and theories of human motivation. Critical examination of the use of motivational theory in the social sciences and related fields. Prerequisite: Psy 201, 202, 203.
- (P) Psy 346. **Psychology of Learning.** 3 hours winter.  
Conditions, principles, and theories of learning. Assessment of experimental methods and results in relation to current theory. Prerequisite: Psy 201, 202, 203. Powloski.
- (P) Psy 347. **Perception.** 3 hours spring.  
Conditions, principles, and theories of perception. Critical examination of experimental studies of perception in relation to current psychological theory. Prerequisite: Psy 201, 202, 203. Wilcox.
- (S) Psy 371. **Quantitative Methods.** 3 hours spring.  
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 201, 202. Simpson.
- (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 314 or equivalent. 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 (R. D.).
- (S) Psy 431. **Industrial Psychology.** (g) 3 hours spring.  
Study of human relationships in industry, human engineering, personnel placement and selection. Prerequisite: Psy 205 or equivalent. Davis.
- (P) Psy 432, 433, 434. **Personality.** 3 hours each term.  
Personality structure and theory, study and use of measures of personality including inventories, tests, and projective techniques; disorders of personality, meaning of mental health. Prerequisites: Psy 201, 202, 203; Mth 425 or equivalent. Wilcox.
- (U) Psy 450. **Abnormal Psychology.** (g) 3 hours spring.  
Various forms of unusual behavior, including anxiety states, hysteria, hyp-



notic 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 is on social influence.

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

Continuation of Psy 460.

- (S) Psy 472. **Individual Differences.** (First Term) (g) 3 hours fall.

Theories of personality; experimental evidence on individual differences; evaluation of differences; guiding and directing normal development. Psy 472 prerequisite to either Psy 473 or 474. Prerequisite: Psy 371 or equivalent. Simpson.

### GRADUATE

- (U) Psy 507. **Seminar: Human Relations for Executives.** 3 hours fall.

Examination of current thinking and methods; applications of psychology, sociology and group dynamics to human leadership problems. Davis.

- (U) Psy 507. **Seminar: Methods of Executive Training.** 3 hours winter.

An analysis of the objectives, goals, values and principles underlying all management development programs; development of guiding principles which apply to both small and very large organizations; executive review and appraisal, job rotation, university management programs, and in-plant development approaches. Davis.

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

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.

- (U) Psy 507. **Seminar: Creative Thinking for Leadership.** 3 hours spring.

The nature of human creativity, techniques of assessment methods for promoting creative thinking in groups in organizations. Wilson (R. C.).

- (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 524, 525. **Individual Intelligence Testing.** 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. Two 3-hour laboratory periods. Prerequisite: Psy 421 previously or concurrently or consent of instructor. Boyd (R. D.).

### Sociology and Social Work

#### SOCIOLOGY

#### LOWER-DIVISION

- (P) Soc 104, 105, 106. **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. Chino.

#### UPPER-DIVISION

- (P) Soc 334, 335. **Social Psychology.** 3 hours winter and spring.

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.

- (U) 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 crisis. Prerequisite: junior standing. Drum.

- (U) Soc 347. **Social Welfare Resources and Organization.** 3 hours winter or spring.

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.** (Use of Social Agencies by Teachers, Nurses, and other Professionals). (G) 3 hours spring.

The various types of social welfare resources which teachers, nurses, and other professionals can use to help people with social and emotional 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 winter.

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. Dean.

- (U) Soc 435. **Theory and Methods of Population Analysis.** (G) 3 hours winter.

Modern demographic trends, underlying factors, social and economic implications; analysis of trends in fertility, mortality, population size and composition, and population redistribution. Kalbach.

- (U) Soc 440. **Group Dynamics.** (G) 3 hours spring.

Analysis of the dynamics of group interaction; significance and applications of group behavior for the group worker. Prerequisite: 9 hours in sociology or psychology; or consent of instructor. James.

- (S) Soc 468. **Sociology of Urban Life.** (g) 3 hours spring.

Sociological analysis of the modern city; its history, structures, functions, and problems. Prerequisite: 6 hours of sociology or sociology and psychology. Kalbach.

## SOCIAL WORK

(Open to students in other fields)

## GRADUATE

- (U) SW 511, 512, 513. **Social Case Work.** 3 hours each term.  
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 psychiatrist and case worker in the study and treatment of the patient. Prerequisite: SW 516 or consent of instructor. 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. Kemper.
- (U) SW 581. **The Child and the State.** 3 hours spring.  
The development of the rights of the child in relation to those of the parents; the responsibilities of the state in safeguarding those rights; social services to children by public and voluntary agencies. Kemper.
- (U) SW 582. **Administration of Social Insurance.** 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. Kemper.

## Faculty

- MARIAN C. AIKIN, M.Sc., Assistant Professor of Family Life, Oregon State College.  
B.Sc. (1939), Nebraska; M.Sc. (1943), Iowa State.
- MARJORIE ALBERTSON, M.M., Assistant Professor of Music, Portland State College and Portland Extension Center.  
B.M. (1929), M.M. (1941), Idaho.
- HARRY T. ALLAN, J.D., Assistant Professor of Business Administration, Oregon State College.  
B.A. (1953), Washington and Jefferson College; B.S. (1953), Massachusetts Institute of Technology; J.D. (1956), Chicago.
- JOHN E. ALLEN, Ph.D., Professor of Geology, Portland State College.  
B.A. (1931), M.A. (1932), Oregon; Ph.D. (1944), California.
- JAMES C. ASHBAUGH, M.A., Assistant Professor of Geography, Portland State College.  
B.A. (1950), Central Washington College of Education; M.A. (1953), Colorado.
- D. HOWARD BACKLUND, M.Ed., Assistant Professor of Secretarial Science, Portland State College.  
B.A. (1937), M.Ed. (1950), Oregon.
- DAVID A. BAERNCOFF, M.A., Assistant Professor of Business Economics, University of Oregon.  
A.B. (1942), Indiana; M.A. (1956), Stanford.
- SHIRLEY M. BARBER, M.Ed., Assistant Professor of Business Education and Secretarial Science, Oregon State College.  
B.S. (1950), Oregon; M.Ed. (1951), Oregon State.
- ALEXANDER R. BARTLEY, B.S., C.P.A., Instructor, Business Administration, Oregon State College.  
B.S. (1953), Lewis & Clark; C.P.A. (1956), State of Oregon.
- BERNARD C. BAUMGARTNER, B.A., Assistant Professor of Engineering, Portland State College and Portland Extension Center.  
B.A. (1935), Reed.
- JOHN E. BELLAMY, Ph.D., Associate Professor of Humanities, Oregon College of Education.  
B.A. (1948), Indiana State Teachers College; M.A. (1951), Ph.D. (1954), Illinois.
- HAROLD W. BERNARD, Ph.D., Professor of Education, General Extension Division and University of Oregon.  
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.  
B.A. (1939), Washington; Ph.D. (1951), UCLA.
- ALMA I. BINGHAM, Ed.D., Assistant Professor of Education, Portland State College.  
A.B. (1948), UCLA; M.A. (1951), Ed.D. (1957), Teachers College, Columbia.
- JEAN P. 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, Ph.D., Speech and Hearing Consultant, Crippled Children's Division, University of Oregon Medical School.  
B.A. (1951), California at Santa Barbara; M.S. (1952), Oregon; Ph.D. (1958), Michigan.

- JOSEPH C. BLUMEL, M.A., Assistant Professor of Economics, Portland State College.  
B.S. (1950), M.A. (1955), Nebraska.
- 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.
- DAVID A. BOSTWICK, Ph.D., Assistant Professor of Geology, Oregon State College.  
B.A. (1942), Montana; M.A. (1951), Ph.D. (1958), Wisconsin.
- RALPH L. BOYD, Ph.D., C.P.A., Professor of Business Administration, Portland Extension Center and Portland State College.  
B.Ed. (1930), Illionis State Normal; M.S. (1932), Ph.D. (1942), Illinois; C.P.A. (1933), Illinois, (1945), Ohio.
- \*DORIS P. BRADLEY, M.A., Instructor; Speech Clinician, Portland Extension Center.  
B.S. (1953), Mississippi Southern College; M.A. (1957), Florida.
- CHARLES S. BRANT, Ph.D., Associate Professor of Anthropology, Portland State College and Portland Extension Center.  
B.A. (1941), Reed; M.A. (1943), Yale; Ph.D. (1951), Cornell.
- DAVID S. BRODY, Ph.D., Professor of Psychology; Director of Psychological Services, Oregon College of Education.  
B.S. (1932), M.A. (1936), Ph.D. (1952), Minnesota.
- CLARKE H. BROOKE, JR., Ph.D., Associate Professor of Geography, Portland State College and Portland Extension Center.  
B.A. (1942), M.A. (1950), Washington; Ph.D. (1956), Nebraska.
- JAMES E. BROOKS, Ph.D., Assistant Professor of Geography; Assistant to the President, Portland State College.  
B.A. (1949), Central Washington College of Education; M.A. (1952), Ph.D. (1957), Washington.
- CLYDE E. BROWNING, Ph.D., Assistant Professor of Real Estate, University of Oregon.  
B.A. (1950), M.A. (1951), Kent State; Ph.D. (1958), Washington.
- ORRIN K. BURRELL, M.A., C.P.A., Professor of Finance, University of Oregon.  
B.S. (1921), M.A. (1927), Iowa; C.P.A. (1928), State of Oregon.
- KENNETH W. BUTLER, M.A., Assistant Professor of English; Audio Visual Librarian, Portland State College.  
A.L.A. (1948), Leeds School Librarianship; B.A. (1953), M.A. (1958), Portland.
- J. RICHARD BYRNE, Ph.D., Associate Professor of Mathematics, Portland State College.  
B.A. (1947), Reed; M.S. (1951), Ph.D. (1953), Washington.
- FLOYD J. CAMPBELL, M.B.A., Assistant Professor of Business Administration, Portland Extension Center.  
B.S. (1952), University of Portland; M.B.A. (1955), Stanford.
- GERALD O. CANNON, Ed.D., Assistant Professor of Trade and Industrial Education, Oregon State College.  
B.S. (1931), Denver; Ed.D. (1953), Washington State.
- ROY W. CARLSON, M.A., Instructor in English, Oregon State College.  
B.A. (1952), University of Omaha; M.A. (1957), Washington.
- \*GLADYS S. CARTER, M.A., Instructor in English, Portland Extension Center.  
B.A. (1943), Oregon State; M.A. (1949), Michigan.

\* Resignation June 30, 1960.

- ROBERT L. CASTEEL, B.A., Instructor; Speech Clinician, Portland Extension Center.  
B.A. (1954), Pacific University.
- JAMES C. CAUGHLAN, Ph.D., Professor of Education, Portland Extension Center.  
A.B. (1924), Willamette; M.A. (1942), Columbia; Ph.D. (1947), Yale.
- FREDERIC H. CHINO, M.A., Assistant Professor of Sociology, Portland State College.  
B.A. (1951), San Diego State; M.A. (1952), Stanford.
- MARGARET CLARKE, M.A., Instructor in English, Portland State College and Portland Extension Center.  
B.A. (1927), M.A. (1929), Oregon.
- QUENTIN D. CLARKSON, Ph.D., Assistant Professor of Biology, Portland State College.  
B.S. (1949), M.S. (1950), Oregon; Ph.D. (1955), Oregon State.
- ROBERT H. COLESCOTT, M.A., Assistant Professor of Art Education, Portland State College and Portland Extension Center.  
B.A. (1949), M.A. (1951), California.
- JAMES W. COOMBS, B.S., Associate Professor of Engineering, Portland State College.  
B.S. (1929), Oregon.
- DALE E. COURTNEY, Ph.D., Assistant Professor of Geography, Portland State College.  
B.A. in Ed. (1940), Western Washington; B.A. (1947), M.A. (1950), Ph.D. (1959), Washington.
- FREDERICK J. COX, Ph.D., Professor of History, Portland State College and Portland Extension Center.  
B.A. (1938), M.A. (1939), Ph.D. (1947), California.
- WILLARD M. CRAIG, M.B.A., LL.B., Professor of Business Administration, Oregon State College.  
B.S. (1926), Oregon State; M.B.A. (1931), LL.B. (1936), Washington.
- JOHN F. CRAMER, D.Ed., Professor of Education, Portland State College.  
A.B. (1920), Willamette; A.M. (1921), M.Ed. (1932), D.Ed. (1937), Oregon.
- FRED CRAWFORD, Ed.D., Assistant Professor of Psychology, Oregon State College.  
B.A. (1941), Santa Barbara State College; M.S. in Ed. (1945), Ed.D. (1947), Southern California.
- VICTOR C. DAHL, Ph.D., Instructor in History, Portland State College.  
B.A. (1950), M.A. (1951), Montana State; Ph.D. (1959), Stanford.
- 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.S.S., Instructor in Psychiatric Social Work, University of Oregon Medical School.  
B.A. (1938), Washington; M.S.S. (1948), Chicago.
- JOHN O. DART, Ph.D., Professor of Geography, Portland State College and Portland Extension Center.  
B.A. (1946), Central Washington College of Education; M.A. (1948), Ph.D. (1953), Washington.
- \*DENNIS M. DAVIES, M.B.A., Assistant Professor of Business Administration, Portland State College.  
B.B.A. (1955), M.B.A. (1956), Oregon.

\* On leave 1959-60.

- ALEXANDER N. DAVIDSON, M.B.A., C.P.A., Assistant Professor of Business Administration, Oregon State College.  
B.S. (1947), Columbia; M.B.A. (1948), New York; LL.B. (1955), Denver; C.P.A. (1953), Texas, (1958), Oregon.
- MILTON K. DAVIS, Ph.D., Associate Professor of Psychology, Portland Extension Center.  
B.A. (1948), Reed; M.S. (1949), Ph.D. (1953), Purdue.
- LOIS R. DEAN, Ph.D., Assistant Professor of Sociology, Portland State College.  
B.A. (1947), Antioch College; M.S. (1948), Purdue; Ph.D. (1953), Cornell.
- IRA W. DEEP, Ph.D., Assistant Professor of Botany; Assistant Botanist, Agricultural Experimental Station, Oregon State College.  
B.A. (1950), Miami (Ohio); M.S. (1952), Tennessee; Ph.D. (1956), Oregon State.
- ANDRIES DEINUM, M.A., Assistant Professor of English, Portland Extension Center.  
B.A. (1940), Stanford; M.A. (1951), California.
- ADOLF DIEGEL, M.S., Instructor in Business Administration, University of Oregon.  
B.B.A. (1957), M.S. (1959), Oregon.
- GEORGE DIEL, M.A., Instructor of Journalism, Portland Extension Center.  
B.A. (1936), Western State College; M.A. (1941), Colorado State College of Education.
- BASIL DMYTRYSHYN, Ph.D., Associate Professor of History, Portland State College and Portland Extension Center.  
B.A. (1950), M.A. (1951), Arkansas; Ph.D. (1955), California.
- ROBERT E. DODGE, Ph.D., Associate Professor of Business Administration, Portland State College.  
B.A. (1934), M.A. (1952), Oregon; Ph.D. (1956), New York.
- WILL DRUM, M.A., J.D., Associate Professor of Sociology and Social Work, Portland Extension Center and University of Oregon.  
J.D. (1921), University of Goettingen; M.A. (1934), Washington.
- SAYED A. EL WARDANI, Ph.D., Assistant Professor of Chemistry, Portland State College.  
B.S. (1948), Alexandria (Egypt); M.S. (1952), California; Ph.D. (1956), Scripps Institution of Oceanography.
- WILLIAM F. ENGESESSER, M.S., Professor of Industrial Engineering, Oregon State College.  
B.S. (1941), M.S. (1950), Northwestern.
- JOHN F. ENGLE, M.S., E.E., Associate Professor of Electrical Engineering, Oregon State College.  
B.S. (1947), M.S. (1951), E.E. (1958), Oregon State.
- ROBERT H. ENGLISH, M.A., Assistant Professor of Speech, Portland Extension Center.  
B.A. (1947), M.A. (1950), College of Pacific.
- GERHARD W. EWER, M.A., Instructor in Foreign Languages, Portland State College.  
B.A. (1944), Acadia (Nova Scotia); M.A. (1947), Toronto.
- CAESAR E. FARAH, Ph.D., Assistant Professor of History, Portland State College.  
B.A. (1952), Stanford; M.A. (1955), Ph.D. (1957), Princeton.
- JAMES W. FERGUSON, Ph.D., Professor of Chemistry, Portland State College.  
A.B. (1929), Miami University; A.M. (1931), Oberlin; Ph.D. (1934), Michigan.
- W. KENNETH FERRIER, Ed.D., Professor of Education, General Extension Division.  
B.S. (1923), Oregon State; M.S. (1927), Washington; Ed.D. (1953), Oregon State.
- MARGARET L. FINCKE, Ph.D., Professor of Foods and Nutrition; Head of Department, Oregon State College.  
A.B. (1921), Mount Holyoke; A.M. (1932), Ph.D. (1935), Columbia.

- MILDRED G. FLANAGAN, M.A., Assistant Professor of Mathematics, Portland State College.  
B.A. (1933), Henderson State Teachers; M.A. (1935), Arkansas.
- SAMUEL G. FLETCHER, Ph.D., Research Associate, University of Oregon Medical School.  
B.S. (1951), Utah State University; M.S. (1957), Ph.D. (1958), University of Utah.
- PHILIP H. FORD, Ph.D., Assistant Professor of English, Portland State College.  
B.A. (1948), Oklahoma; M.A. (1949), Iowa; Ph.D. (1953), Ohio State.
- ROY A. FOSTER, H.S.D., Associate Professor of Hygiene and Health Education, Oregon State College.  
B.A. (1937), Concordia College; M.S. (1950), H.S.D. (1953), Indiana.
- GEORGE N. FREDEEN, B.S., Assistant Professor of Landscape Architecture, Oregon State College.  
B.S. (1950), Oregon State.
- DANIEL W. FULLMER, Ph.D., Associate Professor of Education, Portland Extension Center.  
B.S.E. (1947), M.S.E. (1952), Western Illinois State; Ph.D. (1955), Denver.
- WARREN A. GASINK, M.A., Instructor in Speech, Portland State College.  
B.A. (1953), Morningside College (Sioux City, Iowa); M.A. (1955), Southern California.
- FRANCIS P. GIBSON, Ph.D., Assistant Professor of Speech, Portland State College.  
B.A. (1937), M.A. (1938), Duke; Ph.D. (1954), Southern California.
- JESSE L. GILMORE, Ph.D., Associate Professor of History, Portland State College and Portland Extension Center.  
B.A. (1942), Willamette; M.A. (1948), Ph.D. (1952), California.
- EARL GODDARD, D.B.A., Associate Professor of Business Administration, Oregon State College.  
B.S. (1943), Southern Illinois; M.B.A. (1945), Northwestern; D.B.A. (1956), Washington.
- KEITH GOLDHAMMER, Ph.D., Associate Professor of Education, University of Oregon.  
B.S. (1938), Reed; M.A. (1943), Ph.D. (1954), Oregon.
- THEODORE CARL W. GRAMS, M.S. in L.S., Assistant Professor of Library Science, Head Cataloger, General Extension Division.  
B.A. (1947), Washington; M.S. in L.S. (1951), Southern California.
- ROBERT J. GRIDLEY, Ed.M., Associate Professor of Education, Portland Extension Center.  
B.S. (1939), Oregon; Ed.M. (1953), Oregon State.
- RAYMOND GRIMM, M.S., Assistant Professor of Art, Portland State College.  
B.F.A. (1953), Washington; M.S. (1956), Southern Illinois.
- GEORGE V. GUY, Ph.D., Associate Professor of Education, Portland State College and Portland Extension Center.  
B.A. (1948), M.A. (1949), Ph.D. (1957), Illinois.
- MARKO L. HAGGARD, M.A., Assistant Professor of Political Science, Portland State College and Portland Extension Center.  
B.A. (1947), M.A. (1948), Kansas.
- JACK V. HALL, Ed.D., Associate Professor of Elementary Education, Oregon State College.  
B.A. (1944), Central Washington College of Education; M.A. (1947), Ed.D. (1951), Colorado State College.
- RICHARD B. HALLEY, M.S., Associate Professor of Economics, Portland State College.  
B.S. (1938), M.S. (1941), Oregon.

- DENNIS G. HANNAN, M.A., Associate Professor of Languages, Southern Oregon College.  
A.B. (1945), M.A. (1947), Washington.
- JAMES S. HART, Ph.D., Assistant Professor of English, Portland State College and Portland Extension Center.  
A.B. (1939), Amherst; M.A. (1952), Oregon; Ph.D. (1954), Stanford.
- DALE S. HARWOOD, JR., D.B.A., Assistant Professor of Accounting, University of Oregon.  
B.S. (1948), Oregon State; D.B.A. (1957), Washington.
- EMMANUEL HATZANTONIS, Ph.D., Instructor in Romance Languages, University of Oregon.  
B.A. (1952), New York; M.A. (1953), Columbia; Ph.D. (1958), California.
- BETTY E. HAWTHORNE, Ph.D., Associate Professor of Foods and Nutrition; Associate Nutritionist, Agricultural Experiment Station, Oregon State College.  
B.S. (1941), M.S. (1944), Washington; Ph.D. (1954), Michigan State.
- RUTH C. HEALY, M.Ed., Assistant Professor of French, Portland State College.  
B.A. (1939), St. Xavier; M.A. (1941), Chicago; M.Ed. (1942), Chicago Teachers.
- ARTHUR C. HEARN, Ed.D., Professor of Education, University of Oregon.  
A.B. (1934), M.A. (1937), Ed.D. (1949), Stanford.
- CHARLES O. HEATH, JR., M.S., Professor of Mechanical Engineering, Oregon State College.  
B.S. (in M.E.) (1936), Cal. Tech.; M.S. (1944), Rutgers.
- \*FREDERICK H. HEIDEL, M.F.A., Associate Professor of Art, Portland State College.  
B.S. (1938), Oregon; B.F.A. (1943), M.F.A. (1956), Art Institute of Chicago.
- W. WAYNE HEISER, M.A., Assistant Professor of Geography, Portland State College.  
B.A. (1950), M.A. (1952), Nebraska.
- ROBERT W. HERRON, B.S., Instructor in General Science, Portland State College.  
B.S. (1958), Portland.
- LEROY A. HEWITT, M.A., C.P.A., Assistant Professor of Business Administration, Portland State College.  
B.A. (1948), Oregon; M.A. (1953), Minnesota.
- WALTER R. HILL, JR., Ph.D., Associate Professor of Education, University of Oregon.  
B.A. (1949), M.A. (1953), Ph.D. (1958), State University of Iowa.
- E. HUGH HINDS, M.A., Associate Professor of Business Administration, Portland State College.  
B.A. (1930), M.A. (1941), Wyoming.
- CLARENCE A. HINES, Ed.D., Professor of Education, University of Oregon.  
B.A. (1925), Drury College; M.A. (1929), Missouri; Ed.D. (1950), Oregon.
- GEORGE C. HOFFMANN, Ph.D., Professor of History; Chairman, Division of Social Science, Portland State College.  
B.A. (1939), M.A. (1940), Ph.D. (1951), Southern California.
- JOSEPH V. HOLLAND, D.Ed., Professor of Education, Director of Athletics, Portland State College.  
B.A. (1941), M.Ed. (1946), Willamette; D.Ed. (1956), Oregon.
- HAROLD F. HOLLANDS, Ph.D., Professor of Agricultural Economics; Agricultural Economist, Agricultural Experiment Station, Oregon State College.  
B.A. (1923), Ph.D. (1939), Minnesota.

\* On sabbatical leave 1959-60.

- SAMUEL M. HOLMES, B.S., Assistant Professor of Engineering, Portland State College.  
B.S. (1954), Oregon State.
- CARL E. HOPKINS, Ph.D., Associate Professor, University of Oregon Medical School.  
A.B. (1953), Dartmouth; A.M. (1935), Ph.D. (1948), Harvard.
- RUTH E. HOPSON, Ph.D., Associate Professor of General Science, Portland Extension Center.  
B.A. (1931), M.A. (1935), Oregon; Ph.D. (1946), Cornell.
- C. WARREN HOVLAND, Ph.D., Professor of Philosophy, Professor of Religion, Chairman of Department, Oregon State College.  
B.A. (1940), Lawrence College; B.D. (1943), Ph.D. (1950), Yale.
- ANNASUE HUGHES, B.L.S., Instructor in Library Science, General Reference Librarian, General Extension Division.  
B.L.S. (1928), Wisconsin.
- CLARENCE W. HULTGREN, M.A., P.T., Chief Physical Therapist, University of Oregon Medical School.  
B.S. (1952), Oregon; M.A. (1956), State University of Iowa.
- ERRETT E. HUMMEL, D.Ed., Professor of Education, Portland State College.  
B.A. (1933), Pacific; M.A. (1938), D.Ed. (1951), Oregon.
- \*HOWARD IMPECOVEN, Ed.D., Associate Professor of Education, General Extension Division.  
B.Ed. (1943), Northern State Teachers College; Ed.M., Ed.D. (1951), Oregon.
- JOHN JAMES, Ph.D., Professor of Sociology, Portland State College.  
B.S. (1936), Connecticut; M.A. (1942), Ph.D. (1949), Washington.
- JOHN F. JENKINS, M.Ed., Assistant Professor of Education, Director of Placement, Portland State College.  
B.S. (1932), Linfield; M.Ed. (1953), Oregon State.
- CLYDE R. JOHNSON, Ph.D., Professor of Chemistry, Portland State College and Portland Extension Center.  
B.A. (1925), Reed; M.A. (1929), Ph.D. (1930), Rice Institute.
- 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.
- CATHERINE M. JONES, M.S., M.Bus. Ed., Assistant Professor of Business Education, University of Oregon.  
B.A. (1937), Iowa State Teachers; M.S. (1945), Oregon; M.Bus.Ed. (1952), Colorado.
- GRACE JUODEIKA, M.A., Instructor in Foreign Languages, Portland State College.  
A.B. (1927), Liberal Arts College (Lithuania); M.A. (1950), South Dakota.
- WARREN KALBACH, Ph.D., Assistant Professor of Sociology, Portland State College.  
B.A. (1949), M.A. (1953), Ph.D. (1958), Washington.
- MILDRED O. KANE, Ed.D., Associate Professor of Education, Supervisor of Teaching, Oregon College of Education.  
B.A. (1935), Oregon; M.A. (1942), Ed.D. (1957), Teachers College, Columbia University.
- MITCHELL W. KERR, Ph.D., Assistant Professor of History, Portland State College.  
B.A. (1942), Oregon; M.A. (1944), Ph.D. (1951), Stanford.
- CLIFFORD J. KOLSON, M.Ed., Assistant Professor of Education, Portland Extension Center and University of Oregon.  
B.S. (1950), M.Ed. (1955), University of Pittsburgh.

\* On sabbatical leave, spring term 1959-60.

- GERALD E. KORZAN, Ph.D., Professor of Agricultural Economics, Agricultural Economist, Agricultural Experiment Station, Oregon State College.  
B.S. (1940), South Dakota State; M.A. (1948), Ph.D. (1950), Minnesota.
- WILLIAM A. KOSKI, Ed.D., Assistant Professor of Physical Education, Oregon State College.  
B.S. (1949), Oregon State; M.S. (1950), Michigan; Ed.D. (1954), Oregon State.
- ROBERT N. KRIEGER, M.A., Instructor in English, Portland State College.  
B.S. (1955), Lewis & Clark; M.A. (1959), Washington.
- WINIFRED C. LADLEY, M.Lib., Assistant Professor of Library Science, University of Oregon.  
B.A. (1927), M.Lib. (1955), Washington.
- ERWIN F. LANGE, D.Ed., Professor of General Science, Portland State College.  
B.A. (1933), Willamette; M.S. (1936), Oregon; D.Ed. (1951), Oregon State.
- FRANZ LANGHAMMER, JR., Ph.D., Assistant Professor of Romance Languages, University of Oregon.  
M.A. (1952), Ph.D. (1956), Northwestern.
- LEORA F. LARIVIERE, B.L.S., Assistant Professor of Library Science, Circulation Librarian, Portland State College.  
B.A. (1929), Occidental; B.L.S. (1930), Southern California.
- LLOYD Q. LARSE, D.Ed., Professor of Business Education and Secretarial Science, Oregon State College.  
B.S. (1928), Oklahoma State; Ed.M. (1935), Oklahoma, Dd.Ed. (1954), Oregon.
- JEROME E. LEAVITT, D.Ed., Professor of Education, Portland State College and Portland Extension Center.  
B.S. (1938), New Jersey State Teachers; M.A. (1941), New York University; D.Ed. (1952), Northwestern.
- \*K. WILLIAM LEFFLAND, D.P.A., Assistant Professor of Political Science, Portland Extension Center.  
B.A. (1950), San Jose State College; M.S. (1952), D.P.A. (1959), Southern California.
- CHARLES A. LEQUIN, Ph.D., Assistant Professor of History, Portland State College.  
B.A. (1948), Mercer; M.A. (1949), Northwestern; Ph.D. (1956), Emory.
- WILLIAM T. LEMMAN, JR., B.S., Associate Professor of Business Administration; Business Manager, Portland Extension Center-Portland State College.  
B.S. (1949), Oregon.
- MARK LEVINSON, M.S., Assistant Professor of Mechanical Engineering, Oregon State College.  
B.A.E. (1951), M.S. (App. Mth.) (1959), Polytechnic Institute of Brooklyn.
- JAMES V. LILL, Ph.D., Associate Professor of English, Portland State College and Portland Extension Center.  
B.A. (1947), M.A. (1949), Oregon; Ph.D. (1954), Minnesota.
- HEROLD LILLYWHITE, Ph.D., Assistant Professor of Speech Pathology, University of Oregon Medical School and Portland Extension Center.  
B.S. (1932), Utah State Agricultural College; M.A. (1939), Minnesota; Ph.D. (1943), New York.
- RICHARD W. LINDHOLM, Ph.D., Dean of the School of Business Administration; Professor of Business Economics, University of Oregon.  
A.B. (1935), Gustavus Adolphus; M.A. (1938), Minnesota; Ph.D. (1942), Texas.
- ALFRED L. LOMAX, M.A., Professor of Marketing, University of Oregon.  
B.B.A. (1923), Oregon; M.A. (1927), Pennsylvania.

\* Resignation April 1, 1960.

- JAMES C. LOONEY, B.S., Instructor in Electrical Engineering, Oregon State College.  
B.S. (1954), Oregon State.
- HUGH G. LOVELL, Ph.D., Associate Professor of Economics, Portland Extension Center.  
B.A. (1947), Pomona College; Ph.D. (1951), Massachusetts Institute of Technology.
- LLOYD L. LOVELL, Ph.D., Assistant Professor of Education, University of Oregon.  
B.A. (1947), Lawrence (Wisconsin); M.S. (1951), University of Minnesota; Ph.D. (1955), Cornell University.
- RAYMOND N. LOWE, Ed.D., Associate Professor of Education, University of Oregon.  
B.S. Ed (1940), Massachusetts State Teachers (Fitchburg); M.A. (1948), Ed.D. (1951), Northwestern.
- BERNARD E. LYMAN, Ph.D., Assistant Professor of Psychology, Portland State College and Portland Extension Center.  
B.A. (1940), Grinnell; M.A. (1951), McGill; Ph.D. (1956), Cornell.
- CARLYNE L. McALLISTER, B.S. of Ed., Instructor in Library Science; Education Librarian, General Extension Division.  
B.S. of Ed. (1947), State Teachers College, New York.
- THOMAS J. McCLELLAN, M.Engr., Professor of Civil Engineering, Oregon State College.  
B.S. (1945), Oregon State; M.Engr. (1948), Yale.
- DALE L. McLELLAN, M.S.M.E., Instructor in Engineering, Portland State College.  
B.S.M.E. (1957), M.S.M.E. (1959), Oregon State.
- DOUGLAS J. McQUAIG, M.Ed., M.S., Assistant Professor of Business Administration, Assistant Director of Placement, Portland State College.  
B.S. (1947), M.Ed. (1948), Lewis & Clark; M.S. (1954), Oregon.
- JAMES A. MACNAB, Ph.D., Professor of Biology, Portland State College and Portland Extension Center.  
B.A. (1921), Albany (Oregon); M.A. (1931), Ph.D. (1944), Nebraska.
- RALPH W. MACY, Ph.D., Professor of Biology, Portland State College.  
B.A. (1929), Linfield; M.A. (1931), Ph.D. (1934), Minnesota.
- PHILIP C. MAGNUSON, Sc.D., Professor of Electrical Engineering, Oregon State College.  
B.S. (1937), Washington; M.S. (1938), California; Sc.D. (1941), Massachusetts Institute of Technology; E.E. (1947), Washington.
- D. JAMES MANNING, B.A., Instructor in Business Administration, Portland State College.  
B.A. (1957), Oregon.
- THOMAS E. MARSHALL, M.A., Instructor in Romance Languages, University of Oregon.  
B.A. (1945), M.A. (1946), California.
- \*RICHARD O. MARTIN, M.A., Assistant Professor of Journalism, Portland Extension Center.  
B.A. (1953), American University; M.A. (1959), Oregon.
- †WILLIAM R. MATTHIES, M.S., C.P.A., Associate Professor of Business Administration, Portland State College and Portland Extension Center.  
B.S. (1933), Northwestern; M.S. (1939), Colorado; Certif. (1945), Illinois; Certif. (1946), Wisconsin.

\* On leave 1960-61.

† On leave 1959-60.

- ROBERT H. MATTSO, M.A., Instructor in Education; Counselor, University Counseling Center, University of Oregon.  
B.A. (1949), Montana; M.A. (1950), Iowa.
- CYRUS MAYSHARK, H.S.D., Assistant Professor of Hygiene and Health Education, Oregon State College.  
B.A. (1949), Williams College; M.Ed. (1952), Boston; H.S.D. (1954), Indiana.
- RICHARD MENGLER, M.S., LL.B., Associate Professor of Business Administration, Oregon State College.  
B.A. (1933), Nebraska State Teachers (Kearney); M.S. (1940), LL.B. (1952), Oregon.
- JOHN R. MICKELSEN, Ph.D., Assistant Professor of Chemistry, Portland State College.  
B.A. (1950), Linfield; M.A. (1953), Ph.D. (1955), Oregon State.
- VERGIL V. MILLER, M.B.A., Instructor in Business Administration, University of Oregon.  
B.S. (1955), Oregon State; M.B.A. (1959), Washington.
- ESTORA MOE, B.S., Instructor in Home Economics Education, Oregon State College.  
B.S. (1933), Oregon State.
- \*RAYMOND L. MOLONEY, Ph.D., Associate Professor of Foreign Languages, Portland State College.  
B.A. (1948), M.A. (1949), Ph.D. (1954), Colorado.
- MORTON F. MOSS, M.B.A., C.P.A., Assistant Professor of Accounting, University of Oregon.  
B.A. (1941), Reed; M.B.A. (1948), California; C.P.A. (1950), State of California.
- KHOSROW MOSTOFI, Ph.D., Assistant Professor of Political Science, Portland State College and Portland Extension Center.  
B.A. (1944), Teheran; M.A. (1956), Ph.D. (1958), Utah.
- MARJORIE MURDEN, M.A., Instructor in English, Portland State College.  
B.A. (1950), Park College; M.A. (1951), Stanford.
- RICHARD A. MULLER, M.F.A., Instructor in Art, Portland State College.  
B.F.A. (1951), Syracuse University; M.F.A. (1956), Oregon.
- RAYMOND E. NELSON, M.S., Assistant Professor of Insurance, University of Oregon.  
B.S. (1954), M.S. (1956), Florida State.
- ANTHONY NETBOY, M.A., Instructor in English, Portland Extension Center and Portland State College.  
B.S. (1926), Northwestern; M.A. (1928), Columbia.
- DAVID H. NEWHALL, Ph.D., Associate Professor of Philosophy, Portland State College and Portland Extension Center.  
B.A. (1939), Pomona; M.A. (1941), UCLA; Ph.D. (1948), Princeton.
- THOMAS NEWMAN, Ph.D., Assistant Professor of Anthropology, Portland State College and Portland Extension Center.  
B.A. (1954), Nebraska; Ph.D. (1959), Oregon.
- RUDI H. NUSSBAUM, Ph.D., Associate Professor of Physics, Portland State College.  
Ph.D. (1954), University of Amsterdam (Netherlands).
- ROBERT E. NYE, Ph.D., Professor of Music Education, University of Oregon.  
B.E. (1932), State Teachers College (Milwaukee, Wisc.); M.A. (1942), Ph.D. (1949), Wisconsin.
- EGBERT S. OLIVER, Ph.D., Professor of English, Portland Extension Center and Portland State College.  
B.A. (1927), M.A. (1929), Ph.D. (1939), Washington.

\* Resignation June 30, 1960.

- PAULINE J. OLIVER, M.S., Assistant Professor of Secretarial Science, Portland State College.  
B.S. (1932), M.S. (1958), Oregon State.
- HENDRIK J. OORTHUY, M.S., Associate Professor of Electrical Engineering, Oregon State College.  
B.S. (1934), M.S. (1936), Oregon State.
- BEN PADROW, M.S., Instructor in Speech, Portland State College.  
B.S. (1949), Lewis & Clark; M.S. (1951), Oregon.
- K. ELLSWORTH PAYNE, M.Ed., Assistant Professor of General Science, Portland State College.  
B.A. (1947), Brigham Young; M.Ed. (1953), Oregon State.
- ARNO L. PEETERSON, M.B.A., C.P.A., Assistant Professor of Accounting, University of Oregon.  
B.S. (1937), M.B.A. (1949), Oregon; C.P.A. (1955), State of Oregon.
- VERA D. PETERSEN, Ed.D., Associate Professor of Education, Portland State College and Portland Extension Center.  
B.A. (1938), Iowa State Teachers; M.A. (1947), Ed.D. (1951), Teachers College, Columbia.
- JOHN A. PFANNER, JR., Ph.D., Professor of Business Administration; Head Counselor, School of Business and Technology, Oregon State College.  
A.B. (1927), Dartmouth; M.A. (1931), Ph.D. (1939), Chicago.
- VICTOR N. PHELPS, D.Ed., Associate Professor of Education, Portland State College.  
B.S. (1933), M.S. (1939), Oregon; D.Ed. (1950), Colorado State College of Education.
- MURIEL PHILLIPS, B.S., Instructor in Education, Portland State College.  
B.S. (1924), Oregon.
- IONE F. PIERRON, B.A., B.A. in Lib., Senior Social Science Librarian (Senior Instructor), University of Oregon.  
B.A. (1936), Puget Sound; B.A. in Lib. (1937), Washington.
- \*LEROY R. PIERSON, Ed.D., Associate Professor of Education, Portland Extension Center and Oregon College of Education.  
B.A. (1940), Pacific College; Ed.M. (1950), Ed.D. (1956), Oregon State.
- IRVING POLONOFF, Ph.D., Assistant Professor of Philosophy, Portland State College and Portland Extension Center.  
B.Sc. (1942), Sir George Willams College; M.A. (1948), McGill; Ph.D. (1953), Yale.
- ANTON POSTL, Ph.D., Professor of Science, Oregon College of Education.  
B.S. (1940), M.S. (1942), University of Hawaii; Ph.D. (1955), Oregon State.
- JOHN E. POSTLEWAITE, B.S., Assistant Professor of Engineering, Portland State College.  
B.S. (1953), Oregon State.
- ALFRED POWERS, A.B., Professor Emeritus of Creative Writing, General Extension Division.
- ROBERT F. POWLOSKI, Ph.D., Associate Professor of Psychology, Portland State College and Portland Extension Center.  
B.A. (1948), M.A. (1950), Ph.D. (1952), Colorado.
- RICHARD J. PRASCH, M.F.A., Assistant Professor of Art, Portland State College.  
B.A. (1947), Washington; M.F.A. (1951), Oregon.
- WARREN C. PRICE, M.A., Professor of Journalism, University of Oregon.  
B.A. (1929), M.A. (1938), Wisconsin.
- HAROLD D. PRITCHETT, B.S., Instructor in Civil Engineering, Oregon State College.  
B.S. (1957), Oregon State.

\* On sabbatical leave, fall term 1960-61.

- RUTH L. REES, M.Ed., Assistant Professor of Education, Oregon State College.  
B.S. (1939), M.Ed. (1955), Oregon.
- WILLIAM P. RHODA, D.Ed., Associate Professor of Physical Education, University of Oregon.  
B.S. (1939), Pennsylvania State; M.S. (1947), D.Ed. (1951), Oregon.
- W. DWAIN RICHINS, Ph.D., Associate Professor of Marketing, University of Oregon.  
B.A. (1936), Brigham Young; M.B.A. (1938), Louisiana State; Ph.D. (1950), Washington.
- T. EDWARD RICKARD, B.S., Instructor in Landscape Architecture, Oregon State College.  
B.S. (1956), Oregon State.
- JAMES L. RIGGS, M.S., Assistant Professor of Mechanical Engineering, Oregon State College.  
B.F. (1951), M.S. (Mech. Eng.) (1958), Oregon State.
- PHILIP C. ROBERTI, Ph.D., Associate Professor of Chemistry, Portland State College.  
B.S. (1944), M.S. (1949), Portland; Ph.D. (1953), Oregon State.
- FRANK L. ROBERTS, Ph.D., Professor of Speech, Portland State College and Portland Extension Center.  
B.A. (1938), Pacific; Ph.M. (1943), Wisconsin; Ph.D. (1954), Stanford.
- JAMES B. ROBERTSON, M.S., Instructor in Education, Portland State College.  
B.S. (1954), Oregon; B.S. (1959), Portland State; M.S. (1956), Oregon.
- CLIFF ROBINSON, D.Ed., Associate Professor of Education, University of Oregon.  
B.S. (1933), M.S. (1943), Oregon State; D.Ed. (1955), Oregon.
- DAN D. ROBINSON, M.F., Professor of Forest Management, Oregon State College.  
B.S. (Fore.) (1940), Oregon State; M.F. (1942), Syracuse.
- LYNN S. RODNEY, Ph.D., Associate Professor of Physical Education, University of Oregon.  
B.A. (1936), M.A. (1938), Washington State; Ph.D. (1955), Michigan.
- MILES C. ROMNEY, Ph.D., Professor of Education, University of Oregon.  
B.S. (1935), Utah State; Ph.D. (1947), Columbia.
- J. FRANCIS RUMMEL, Ph.D., Associate Professor of Education, University of Oregon.  
B.A. (1933), Iowa State Teachers; M.A. (1947), Ph.D. (1950), Iowa.
- ROY J. SAMPSON, Ph.D., Assistant Professor of Transportation, University of Oregon.  
B.S. (1946), Tennessee Polytechnic Institute; M.B.A. (1948), Ph.D. (1951), California.
- ADOLPH A. SANDIN, Ph.D., Associate Professor of Education, University of Oregon.  
B.A. (1933), Central Washington College of Education; M.A. (1938), Washington; Ph.D. (1943), Columbia.
- J. ALEXANDER SCHARBACH, M.A., Associate Professor of English, Portland State College and Portland Extension Center.  
B.A. (1932), Notre Dame; M.A. (1941), Washington.
- ROBERT P. SCHMELZLEE, M.Ed., Instructor in Business Administration, Portland State College.  
B.S. (1949), Iowa; M.Ed. (1952), Central Washington College of Education.
- HELMUT G. SCHREIMA, LL.B., Assistant Professor of Business Administration, Oregon State College.  
B.A. (1953), LL.B. (1955), Willamette.

- JOHN A. SCHULZ, Ed.D., Associate Professor of Psychology, General Extension Division.  
B.A. (1939), Reed; M.Ed. (1946), Oregon; Ed.D. (1949), Southern California.
- STUART B. SEATON, M.S., Professor of Business Administration, Oregon State College.  
B.S. (1933), Central State (Oklahoma); M.S. (1941), Oklahoma State.
- CLAY C. SHEPARD, M.A., Instructor in Speech, Portland State College.  
B.A. (1950), Linfield; M.A. (1958), Oregon.
- JAMES E. SIMPSON, Ph.D., Assistant Professor of Psychology, Oregon State College.  
A.B. (1937), M.A. (1940), California; Ph.D. (1957), Kansas.
- RONALD E. SMITH, Ph.D., Associate Professor of Psychology, Portland State College and Portland Extension Center.  
A.Sc. (1939), Weber College; B.A. (1948), M.A. (1949), Ph.D. (1954), Utah.
- HUGH SMITHWICK, M.S., Assistant Professor of Physical Education, Portland State College.  
B.A. (1948), Nevada; M.S. (1952), Southern California.
- \*Elaine Spencer, M.S., Instructor in Chemistry, Portland State College.  
B.A. (1940), Linfield; M.S. (1948), Massachusetts Institute of Technology.
- †CLARK SPURLOCK, D.Ed., Professor of History, Portland Extension Center.  
B.S. (1936), M.S. (1940), Oregon; D.Ed. (1954), Oregon State.
- JOHN H. STEHN, M.S., Professor of Music, Portland State College.  
A.B. (1925), Grinnell; M.S. (1927), Iowa.
- ROBIN E. STEUSSY, Ph.D., Assistant Professor of Slavic Languages, University of Oregon.  
B.A. (1943), Wisconsin; M.A. (1958), Ph.D. (1959), Harvard.
- LOUIS N. STONE, B.S., Professor of Electrical Engineering, Head of Department, Oregon State College.  
B.S. (1939), Oregon State.
- OLON A. STONE, B.S., Assistant Professor of Electrical Engineering, Oregon State College.  
B.S. (1952), Oregon State.
- LESTER B. STRICKLAND, D.B.A., Associate Professor of Business Administration, Oregon State College.  
B.A. (1948), M.A. (1949), Pennsylvania State; D.B.A. (1954), Indiana.
- EDITH B. SULLIVAN, Ph.D., Assistant Professor of Psychology, Portland State College and Portland Extension Center.  
B.S. (1949), M.S. (1950), Ph.D. (1954), Wisconsin.
- JAMES N. TATTERSALL, M.A., Instructor in Economics, University of Oregon.  
B.A. (1954), M.A. (1956), Washington.
- SELMO TAUBER, Ph.D., Associate Professor of Mathematics, Portland State College.  
Ph.D. (1950), University of Wien (Austria).
- HENRY A. TEN PAS, Ed.D., Professor of Agricultural Education; Head of Department, Oregon State College.  
B.S. (1940), Wisconsin; M.S. (1949), Oregon State; Ed.D. (1954), Washington State.
- GRANT R. THOMAS, M.S., Instructor in Marketing Management, University of Oregon.  
B.S. (1949), M.S. (1956), Utah.

\* On leave 1959-60.

† On sabbatical leave, summer 1960.



- VERNON T. THOMPSON, Ed.D., Assistant Professor of Education; Assistant Director, Rehabilitation Counselor Training Program, Graduate School, University of Oregon.  
B.S. (1950), Kansas State College; Ed.D. (1958), Missouri.
- MICHAEL TICHY, M.S., Assistant Professor of Physical Education, Portland State College.  
B.S. (1948), East Stroudsburg Teachers; M.S. (1951), Southern California.
- FRANCES B. TURRELL, Ph.D., Associate Professor of Music, Portland State College.  
A.B. (1924), M.A. (1940), Reed; Ph.D. (1956), Southern California.
- JUNE F. UNDERWOOD, B.A., Instructor in Secretarial Science, Portland State College.  
B.A. (1949), Oregon State.
- WILLIAM F. UNSOELD, B.D., Assistant Professor of Philosophy, Oregon State College.  
B.S. (1951), Oregon State; B.D. (1954), Pacific School of Religion.
- ROBERT O. VAN ATTA, B.S., Assistant Professor of Geology, Portland State College.  
B.S. (1949), Oregon; B.D. (1957), Western Conservative Baptist Seminary.
- FRANK B. VECCHIO, M.A., Instructor in Spanish, Portland State College.  
B.A. (1956), Portland; M.A. (1959), Washington.
- EVELYN E. VICTORS, M.S., Assistant Professor of Physical Education, Portland State College.  
B.S. (1947), M.S. (1948), Oregon.
- MAX WALES, M.A., Associate Professor of Journalism, University of Oregon.  
B.A. (1933), Washburn; M.A. (1956), Iowa State.
- FREDERICK O. WALLER, Ph.D., Assistant Professor of English, Portland State College.  
B.A. (1941), M.A. (1948), Oregon; Ph.D. (1957), Chicago.
- SCOTT D. WALTON, Ph.D., Associate Professor of Management, University of Oregon.  
B.S. (1947), Minnesota; M.B.A. (1949), Harvard; Ph.D. (1953), Iowa State.
- PAUL R. WASHKE, Ph.D., Professor of Physical Education, University of Oregon.  
A.B. (1927), Western State Teachers (Michigan); A.M. (1929), Michigan; Ph.D. (1943), New York.
- JOSEPHINE WASSON, M.A., Associate Professor of Art and Architecture, Oregon State College.  
B.A. (1925), Washington State; M.A. (1933), Columbia.
- W. KENNETH WATERS, M.A., Assistant Professor of Theater Arts, Portland State College and Portland Extension Center.  
A.B. (1950), Park College; M.A. (1951), Stanford.
- DONALD A. WATSON, Ph.D., Assistant Professor of Finance, University of Oregon.  
B.A. (1947), M.A. (1948), Ph.D. (1951), Iowa.
- PAUL E. WATSON, Ed.D., Associate Professor of Education, Portland Extension Center and University of Oregon.  
B.S. (1948), M.S. (1952), Indiana State Teacher College; Ed.D. (1958), Columbia.
- MORRIS K. WEBB, Ph.D., Assistant Professor of History, Portland State College and Portland Extension Center.  
B.A. (1937), Southeastern State College; M.A. (1940), Oklahoma; Ph.D. (1952), Chicago.
- HILDEGARD WEISS, M.A., Assistant Professor of English, Portland State College.  
B.A. (1940), La Verne; M.A. (1946), UCLA.

- FRANK WESLEY, Ph.D., Assistant Professor of Psychology, Portland State College and Portland Extension Center.  
B.A. (1950), Reed; M.S. (1955), Ph.D. (1958), State College of Washington.
- HOWARD E. WESTCOTT, D.Ed., Associate Professor of Physical Education, Portland State College.  
B.A. (1939), Reed; M.A. (1940), D.Ed. (1951), Columbia.
- CHARLES M. WHITE, Ph.D., Associate Professor of History, Portland State College and Portland Extension Center.  
B.A. (1947), M.A. (1949), Michigan State; Ph.D. (1959), Southern California.
- \*RUTH WIDMAYER, Ph.D., Assistant Professor of Political Science, Portland State College and Portland Extension Center.  
B.A. (1943), M.A. (1946), Washington; Ph.D. (1952), Radcliffe.
- †JOHN A. WIESNER, M.A., Assistant Professor of Business Administration, Portland State College.  
B.S. (1933), Linfield; M.A. (1935), Hawaii.
- WARREN W. WILCOX, Ph.D., Professor of Psychology, Portland State College and Portland Extension Center.  
B.A. (1924), Dakota Wesleyan; A.M. (1929), Ph.D. (1932), Kansas.
- HELEN R. WILDERMAN, B.A., Assistant Professor, General Extension Division.  
B.A. (1930), Oregon.
- ‡TESS M. WILLIAMS, M.S., Assistant Professor, Educational Radio and Television, General Extension Division.  
B.S. (1951), Oregon State; M.S. (1956), Iowa State College.
- ASHER B. WILSON, JR., M.A., Associate Professor of Theater Arts, Portland State College and Portland Extension Center.  
B.A. (1942), M.A. (1951), Stanford.
- ROBERT C. WILSON, Ph.D., Associate Professor of Psychology, Portland State College and Portland Extension Center.  
B.A. (1947), Ph.D. (1953), Southern California.
- ROBERT E. WILSON, M.S., Instructor in Mechanical Engineering, Oregon State College.  
B.S. (1955), Oregon State; M.S. (1956), Illinois.
- RUTH WINCHELL, M.A., Assistant Professor of Biology, General Extension Division.  
B.A. (1926), Reed; M.A. (1941), Oregon.
- FRED E. WINGER, D.Ed., Professor of Business Education and Secretarial Science, Oregon State College.  
B.S. (1934), Nebraska; M.A. (1938), Iowa; D.Ed. (1951), Oregon.
- RAY O. WOLF, Ed.D., Professor of Education, Portland State College.  
B.A. (1926), Pacific; M.A. (1940), Ed.D. (1955), Oregon.
- CHARLES T. YERIAN, Ph.D., Professor, Head of Departments of Business Education and Secretarial Science, Oregon State College.  
B.S. (1932), Oregon State; M.S. (1936), Ph.D. (1938), Iowa.
- NORTON B. YOUNG, Ph.D., Assistant Professor of Speech; Speech Therapist, University of Oregon.  
B.S. (1950), M.A. (1953), Washington; Ph.D. (1957), Purdue.
- CHARLES F. ZIEBARTH, Ph.D., Associate Professor of Transportation, Portland Extension Center and University of Oregon.  
B.A. (1931), M.A. (1932), Washington State; Ph.D. (1952), Chicago.

\* On leave 1959-60.

† On leave, fall term 1959-60.

‡ Resignation, August 1960.

## Special Staff

PIERO BELLUGI, Conductor, Portland Symphony.  
 VANNA BELLUGI, Instructor in Spanish.  
 WILLARD BOOTH, B.S., Cascades Plywood Corporation.  
 ROBERT D. BOYD, Ph.D., Chief Psychologist, Child Guidance Clinic.  
 CHARLES F. BRAUER, Controller, J. E. Haseltine Company.  
 ELDEN E. BREEDLOVE, B.S., Civil Engineer, Cooper and Rose Associates.  
 ALBERTA Z. BROWN, Instructor in English.  
 LOUIS BUNCE, Instructor in Painting, Museum Art School.  
 WILLIAM BYRD, M.S., Floor Director, KOIN-TV.  
 JOHN A. CARLSON, B.S., C.P.A.  
 LEONARD I. CARPENTER, M.A., Supervisor of Business Education, Portland Public Schools.  
 FRANK C. CHIPPS, Ph.D., Assistant Professor of History, Pacific University.  
 INEZ C. CLAPP, M.E., Head Teacher, Portsmouth Elementary School.  
 ARTHUR CROOKHAM, M.A., Instructor in History.  
 CHARLES GILMAN DAVIS, B.Arch., Instructor in Art.  
 ALBERT H. DEHNER, Ph.D., LL.B., Head, Department of Economics, Willamette University.  
 ROBERT O. DODGE, B.S., Corps of Engineers.  
 ROBERT H. DOW, M.Ed., Principal, Waldo Junior High School (Salem).  
 HAROLD C. ELKINTON, M.B.A., Professor of Economics and Business Administration, Linfield College.  
 J. CLINT ELWOOD, M.S., Instructor in Science.  
 BERNARD J. FARRELL, M.A., Consultant, Gifted Child Program, Portland Public Schools.  
 PHYLLIS J. FLEGEL, M.A., Instructor in English, Franklin High School.  
 WILLIAM H. GIVLER, Dean, Museum Art School.  
 VINCENT GLAUDIN, Ph.D., Interfaith Counseling Center.  
 JEAN K. GLAZER, M.A., Instructor in Art.  
 DONOVAN I. GRIFFITH, B.A., Instructor in Spanish and Russian, Woodrow Wilson High School.  
 ALMA E. HALVORSON, B.S., Instructor in Foreign Languages, Alameda School.  
 NORMAN K. HAMILTON, Ed.D., Assistant Superintendent, Portland Public Schools.  
 JOSEPH C. HARTLEY, M.A., Principal, Ainsworth School.  
 DARRELL E. HAUGEN, M.S., Instructor in Mathematics.  
 ALFRED J. HERMAN, Consul of France.  
 GERALD C. HJERT, M.A., Director, Portland Civic Theatre.  
 L. L. HOAGLAND, Assayer Chemist, Oregon State Department of Geology and Mineral Industries.  
 LESTA P. HOEL, M.A., Instructor in Mathematics.  
 GEORGE S. INGEBØ, Ph.D., Supervisor of Testing, Portland Public Schools.  
 MANUEL IZQUIERDO, Instructor in Art, Museum Art School.  
 JANET V. JACK, M.Ed., Instructor in Secretarial Science, Grant High School.  
 DON W. JAMES, M.Ed., Vice Principal, Madison High School.  
 EUNICE JENSEN, Instructor in Painting, Museum Art School.  
 GEORGE E. JOHANSON, Instructor in Drawing and Painting, Museum Art School.  
 EVELYN M. KEMPER, M.S.W., Child Welfare Supervisor, Clackamas County Public Welfare Commission.  
 LETA M. KENNEDY, B.S., Instructor in Design, Museum Art School.

CLARENCE A. KRAFT, M.A., Associate Professor of Spanish, Willamette University.  
 JOHN R. KRUEGER, B.A., Instructor in German, Reed College.  
 ETHEL L. LAWRENCE, B.S., Instructor in Mathematics.  
 ELEANOR Y. LAWRY, Ph.D., Instructor in Mathematics.  
 FREDERIC LITTMAN, Instructor in Sculpture, Museum Art School.  
 RUTH LOBAUGH, M.M., Instructor in Vocal Music, Portland Public Schools.  
 PHILIP G. LOPRINZI, M.A., Instructor in Business Education, Roosevelt High School.  
 WALTER I. LUSETTI, M.Litt., Principal, South Powellhurst School.  
 DOUGLAS LYNCH, Instructor in Commercial Design, Museum Art School.  
 ROBERT E. LYNOTT, B.S., TV Weatherman, KOIN-TV.  
 RUSSELL R. MACDONALD, B.S., Instructor in Chemistry.  
 IRWIN MCFADDEN, Instructor in Lettering and Graphic Design, Museum Art School.  
 FRANCIS D. MCGILL, M.A., Supervisor of Guidance and Counseling, Portland Public Schools.  
 JACK MCLARTY, Instructor in Drawing and Painting, Museum Art School.  
 ALICIA E. MARCÓ, Instructor in Chemistry.  
 CLYDE M. MARTIN, Director of Curriculum, Milwaukie Union High School.  
 JULIA MARTINES, M.A., Instructor in French.  
 RALPH S. MASON, B.S., Mining Engineer, Oregon State Department of Geology and Mineral Industries.  
 WILLIAM W. MATSON, M.Ed., Supervisor of Mathematics, Portland Public Schools.  
 DARYL B. MAY, B.L.A., Landscape Architect.  
 PHILLIP M. MAYER, B.A., Principal Management Officer, Bonneville Power Administration.  
 RICHARD C. MONTGOMERY, M.A., Assistant Professor of Physical Science, Willamette University.  
 LILLIAN I. MOSHER, M.Ed., Assistant Supervisor, Elementary Education, Portland Public Schools.  
 MITSUO R. NAKATA, D.M.D.  
 HAZEL R. NEWHOUSE, M.A., Instructor, Gresham High School.  
 WILLIAM A. OLIVER, D.Ed., Assistant Superintendent, Portland Public Schools.  
 JUSTINE O'REILLY, D.Ed., Supervisor of Home Economics, Portland Public Schools.  
 JUNE L. ORLOFF, M.A., Instructor in English.  
 MARTHA H. PAREIS, M.A., Psychologist, Child Guidance Clinic.  
 URSULA H. PARRISIUS, M.Ed., Instructor in German, Grant High School.  
 WARREN H. PEPPERDINE, M.A., Technical Director, Portland Civic Theatre.  
 CARL J. PIACENTINI, M.Ed., Principal, Astor School.  
 MCNAMARA M. POPE, A.B., C.P.A., Pope, Loback, McFaddin & Company.  
 LLOYD J. REYNOLDS, M.A., Professor of Art, Reed College.  
 ESTHER C. RICHARDS, M.A., Instructor in English.  
 WILLIAM A. ROCKIE, Instructor in Geography.  
 HENRY C. RUARK, JR., M.Ed., Coordinator on Instructional Materials, Oregon State Department of Education.  
 MICHELE RUSSO, B.S.A., Instructor in Painting, Museum Art School.  
 LEWIS C. SANDER, M.A., Instructor in English, Clark College.  
 HELEN E. SCHAPER, M.A., Director of Curriculum, Portland Public Schools.  
 HERBERT G. SCHLICKER, M.S., Geologist, Oregon State Department of Geology and Mineral Industries.

RICHARD R. SCHULTZ, M.A., Instructor in English.  
 GEORGE M. SCHWARZ, JR., B.I.A., Instructor in Art.  
 HARRY D. SKELTON, C.P.A.  
 EUGENE SNYDER, M.A., Economist, Portland City Planning Commission.  
 JOSHUA STAMPFER, M.H.L., Rabbi, Congregation Ahavai Sholom.  
 DONALD W. STOTLER, D.Ed., Supervisor of Science, Portland Public Schools.  
 PATRICIA L. SWENSON, D.Ed., Assistant Supervisor, Radio Station KBPS.  
 EDGAR A. TAYLOR, JR., M.A., Supervisor of Special Education, Portland Public Schools.  
 DAVID M. TEETER, A.B., C.P.A.  
 WILLIAM M. THOMAS, M.A., Instructor in English, Madison High School.  
 HESTER TURNER, Ed.D., Director of Professional Services, Oregon Education Association.  
 EVERETT N. WAAGE, M.S., Industrial Engineer.  
 HELEN M. WAHLSTROM, B.S., Instructor in Art.  
 WILLIAM C. WEBER, JR., B.B.A., Internal Revenue Agent, U.S. Treasury Department.  
 MARVIN E. WEINBERGER, Ph.D., Assistant Professor of French and Russian, Reed College.  
 ERNEST L. WEISER, M.A., Instructor in German, Reed College.  
 ALMA WELLS, B.S., Instructor in Nutrition.

## General Extension Division

The General Extension Division is inter-institutional in character. It extends to all areas of the state the combined resources of the campus institutions integrated within the Oregon State System of Higher Education.

This state-wide form of extension is unusual among the various states and is considered an ideal by educators throughout the nation. Its effectiveness results from its being based on the vast resources of all State System institutions of higher learning, rather than on the resources of only one institution.

In spite of the many and varied services it is thus able to offer throughout the state, the General Extension Division is to a considerable extent self-sufficient financially, earning much of its own way through collection of authorized fees for the services it performs.

### Administration and Staff

JAMES W. SHERBURNE, Ph.D., Dean.  
 JAMES C. CAUGHLAN, Ph.D., Assistant Dean; Director, Portland Summer Session and Portland Extension Center.  
 VIRON A. MOORE, Ed.D., Assistant Dean; Director, Department of State-Wide Services.  
 JEAN P. BLACK, Ph.D., Librarian.  
 HOWARD IMPECOVEN, Ed.D., Registrar.  
 DONALD R. LARSON, B.A., Assistant to the Dean; Director of Information Services.  
 WILLIAM T. LEMMAN, JR., Business Manager.  
 ROBERT L. MERRICK, B.S., Assistant Business Manager.  
 HELEN R. WILDERMAN, B.A., Assistant Registrar.

Headquarters office of the General Extension Division is at 1633 S. W. Park Ave., Portland 1, Ore. Administrative offices of Portland Extension Center and Portland Summer Session are at this same location. Information on these and other General Extension Division departments and activities follows:

### Portland Extension Center

Portland Extension Center functions during the regular school year as the metropolitan-area evening college program of the Oregon State System of Higher Education. As is Portland Summer Session, the Center is a general Extension Division activity. Current enrollments at the Center exceed 6,000 students in all categories.

Neither Portland Extension Center nor Portland Summer Session grants degrees; instead, in line with the State System extension concept, the student chooses the institution from which he wishes to receive his degree, and works out with this campus institution the Portland Extension Center or Portland Summer Session courses which may be applied toward the degree.

Varied non-credit activities are offered, along with the Center's continuing program of courses carrying college credit. Most of these non-credit offerings are part of the Center's program in Liberal Education for Adults.

### Administration and Staff

JAMES C. CAUGHLAN, Ph.D., Director.  
 CLARK SPURLOCK, D.Ed., Associate Director.  
 \*MRS. GLADYS S. CARTER, M.A., Coordinator, Women's Group Services.  
 FLOYD J. CAMPBELL, M.B.A., Head, Business and Labor Programs.  
 ARTHUR L. CASEBEER, M.S., Director, The College Center and Student Activities.

\* Resignation, June 1960.

MILTON K. DAVIS, Ph.D., Head, Management and Executive Development Programs.

ANDRIES DEINUM, M.A., Film Consultant.

GEORGE DIEL, M.A., Director, Information Services.

ROBERT H. ENGLISH, M.A., Speech Therapist.

DANIEL W. FULLMER, Ph.D., Director, Counseling Center for Adults.

ROBERT J. GRIDLEY, Ed.M., Coordinator of Workshops.

JOHN F. JENKINS, M.Ed., Director, Placement Service; Director of Housing.

CLIFFORD J. KOLSON, M.Ed., Reading Specialist.

†K. WILLIAM LEFFLAND, D.B.A., Coordinator, Liberal Education for Adults Program.

HUGH G. LOVELL, Ph.D., Coordinator of Programming and Planning.

‡RICHARD O. MARTIN, M.A., Director, Information Services.

PAUL E. WATSON, Ed.D., Consultant in School Administration.

\*TESS M. WILLIAMS, Coordinator, Educational Radio and Television.

CHARLES F. ZIEBARTH, Ph.D., Coordinator, Inter-Institutional Programs for Business and Industry.

MARIE E. BROWN, Secretary.

## Portland Summer Session

Portland Summer Session is principally a daytime program, generally operating from June through August. It has the largest enrollment of any summer session in the state, with registrations in recent years exceeding 3,000. A full program of undergraduate and graduate studies is offered, along with many special workshops for teachers, administrators, and others.

Evening offerings have been expanded in recent years, for the convenience of students employed days during the summer. Numerous non-credit activities are offered, as well.

Portland Extension Center and Portland Summer Session operate under the same administration.

## Department of State-Wide Services

State-Wide services comprise evening classes, correspondence study courses, and telecourses; conferences and workshops; consultative and special services to business, industry, and education; and the Institute of International Affairs. Any community in Oregon may be a meeting-place for State-Wide evening classes if a satisfactory facility is provided and if enrollment is sufficient to cover actual operating costs.

Headquarters office of the department is on the University of Oregon campus in Eugene. For the convenience of Oregonians in other localities, offices are also maintained in Salem and on the campuses of State System institutions in Corvallis, Ashland, and LaGrande. Inquiries directed to any of these offices will receive prompt attention.

### Administration and Staff

VIRON A. MOORE, Ed.D., Director of Department, Eugene.

HOWARD J. AKERS, Ed.D., Assistant Director of Department; Head, Salem Extension Center, North Central Regional Office, Salem.

DONALD S. BRYANT, M.A., Head, Northwest Regional Office, Corvallis.

CHARLES D. DEAN, Ph.D., Head, Office of Correspondence Study; Education Consultant, Eugene.

KENNETH W. FERRIER, Ed.D., Consultant, Alcohol Education, Portland.

WILLIAM L. HITCHCOCK, Ed.D., Consultant in Guidance, Salem.

† Resigned, April 1960.

‡ On leave, 1960-61.

\* Resigned, August 1960.

CHARLES A. IVIE, M.A., Head, Southern Regional Office, Ashland.

DONALD E. LOW, M.B.A., Consultant, Business and Industrial Services, Eugene.

JENNELLE MOORHEAD, M.S., Consultant, Health and Community Welfare, Eugene.

MARION E. PATTULLO, Specialist in Study Group Discussion, Portland.

ROY L. SKEEN, Ed.D., Head, Eastern Regional Office, LaGrande.

DOROTHY D. SMITH, B.A., Head, Eugene Extension Center, Central Regional Office, Eugene.

MAUD WALKER, M.S., Coordinator of Television Instruction, Portland.

## Department of Educational Radio and Television

Radio station KOAC and television station KOAC-TV are educational stations owned by the state of Oregon and operated by the State System of Higher Education with General Extension Division in charge of program and other administration. KOAC-TV broadcasts on channel 7 with its transmitter located on Vineyard Hill near Corvallis. Programs originating in both Corvallis and Eugene reach the transmitter by microwave relay. Now a relatively low-power transmission which began as a campus television teaching experiment, with present programming until 8 p.m. Monday through Friday, KOAC-TV will increase its power sometime in the future. KOAC radio transmission on 550 kc is received throughout the state Monday through Saturday from 10 a.m. until 10 p.m. In addition to its transmission of both radio and television, the department is responsible for development of the Tapes for Teaching library, which assists teachers in classrooms throughout the state.

A Television Junior College, made possible through a grant under Title VII of the National Defense Education Act, offers freshman and sophomore college courses broadcast by KOAC-TV. Other telecourses carrying college credit are offered in several localities in the state through KOAC-TV and commercial television outlets.

### Administration and Staff

JAMES M. MORRIS, Ed.D., Head of Department and Program Manager.

ROBERT C. HINZ, B.A., Production Services Manager; News Editor.

SHIRLEY J. HOWARD, B.S., Director of Women's Programs.

PHILIP B. KALAR, Mus.B., Radio Production Supervisor; Music Director.

BROOKS G. LEFFLER, B.A., Producer-Director.

JOHN MACDONALD, B.A., Producer-Announcer.

WILLIAM F. MCGRATH, M.A., Educational Services Manager.

LESTER G. MOCK, B.S., Television Production Supervisor.

ELIZABETH PATAPOFF, B.A., Elementary School Programs.

RICHARD W. POTTER, M.S., Producer-Director, Television Junior College.

ROGER REYNOLDS, B.S., Producer-Announcer, Television Junior College.

ROBERT RICHTER, B.A., Coordinator of State Department Programs.

ROBERT M. ROBERTS, B.A., Producer-Announcer.

MACK W. SCHWAB, M.A., Producer-Director.

WILLIAM C. SMITH, B.S., Farm Programs.

\*TESS M. WILLIAMS, M.S., Coordinator, Portland Educational Radio and Television Programs.

KASLON K. ZOLLER, B.A., Production Director, Television Junior College.

## Department of Visual Instruction

The Department of Visual Instruction provides educational film library service for schools, community clubs, and other organizations. More than 4,000 motion pic-

\* Resigned, August 1960.

tures and a small selection of color slides and filmstrips are available on a rental basis. A catalog of the selection may be obtained by writing the department. Other functions of the department include community consultant services in planning audio-visual programs, assistance with teacher workshops, demonstrations of teaching techniques in the use of a wide variety of audio and visual materials, consultation in planning county and city film services, a production program of motion pictures, and an artist service. Located on the campus of Oregon State College at Corvallis, the department is maintained jointly by the General Extension Division and the Federal Cooperative Extension Service. Branch libraries are located on the college campuses at Ashland and La Grande.

#### Administration and Staff

WILLIAM CURTIS REID, Ph.D., Head of Department.  
 JACK N. GOODMAN, M.A., Schools Specialist.  
 E. MILTON GRASSELL, M.A., Consultant in Visual Instruction.

#### Institute of International Affairs

Through the Institute, General Extension Division assists other organizations in programs concerning international affairs such as Great Decisions, which it has developed in cooperation with Oregon State Extension Service and the Foreign Policy Association. In addition, the Institute serves as a distribution center for U. S. State Department and UNESCO publications. The Institute is an activity of the Department of State-Wide Services.

## Oregon State System of Higher Education

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 High School-College Relations Committee

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 FREDERICK M. HUNTER, Ed.D., LL.D.....1935-1946  
 PAUL C. PACKER, Ph.D., LL.D.....1946-1950  
 CHARLES D. BYRNE, Ed.D.....1950-1955

\* Resignation June 30, 1960.

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

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