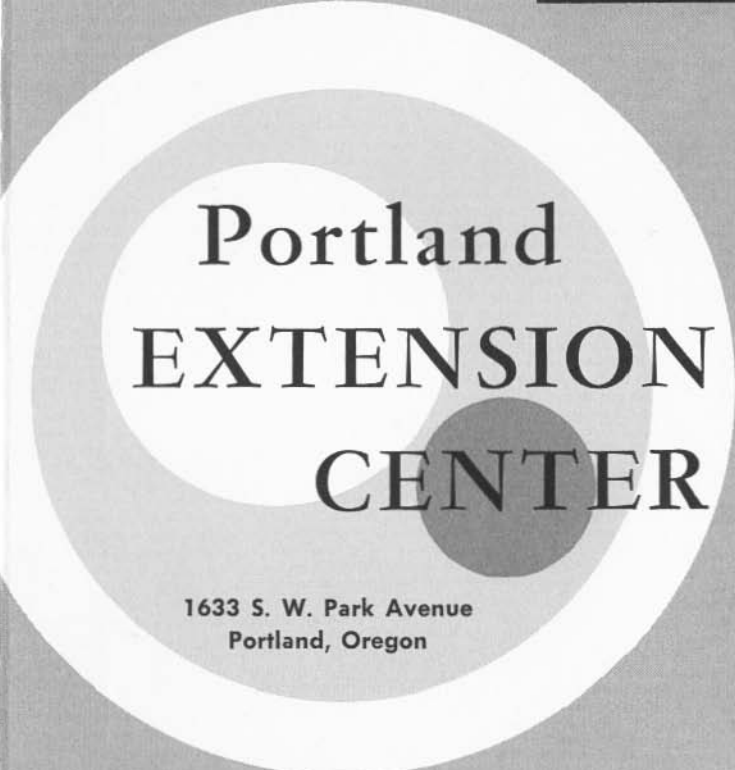


GENERAL EXTENSION DIVISION

BULLETIN



Portland EXTENSION CENTER

1633 S. W. Park Avenue
Portland, Oregon

EVENING CLASSES

CATALOG ISSUE

1959-60

OREGON STATE SYSTEM OF HIGHER EDUCATION

General Extension Division

BULLETIN

PORTLAND SERIES NO. 69

MAY 20, 1959

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GENERAL EXTENSION
DIVISION

BULLETIN

Portland Extension Center

Evening Classes

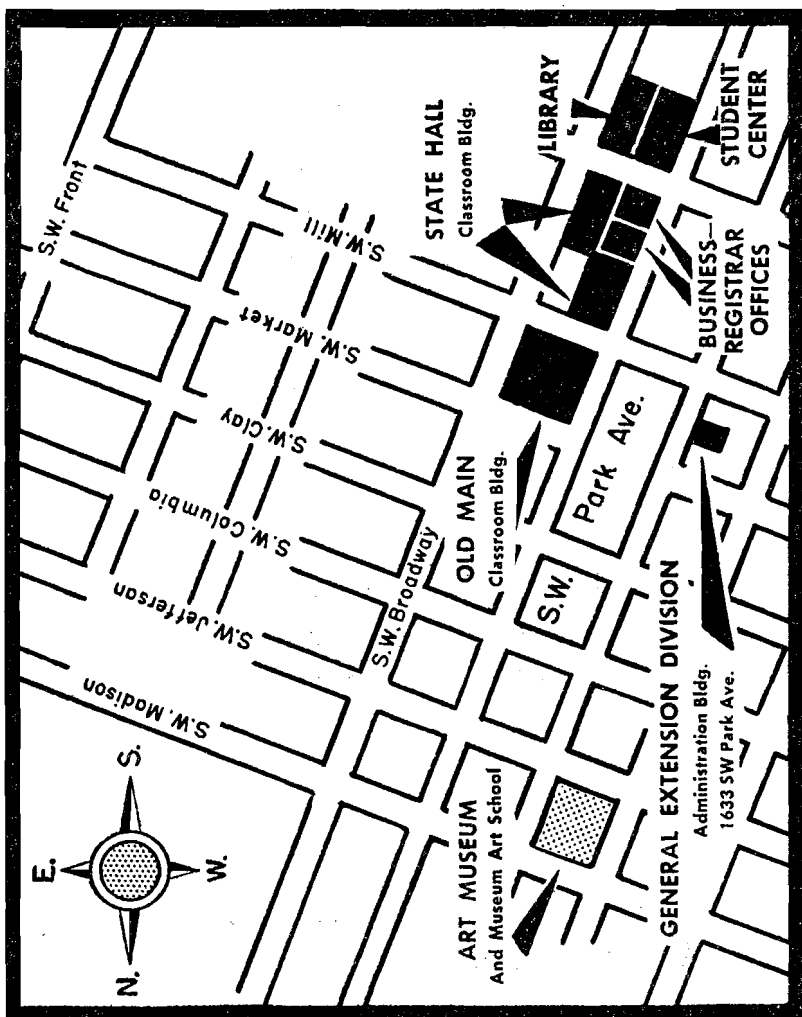
1959-60

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 2-3201



OREGON STATE SYSTEM
OF HIGHER EDUCATION



COLLEGE CENTER BUILDING

Bookstore
Cafeteria
Snack Bar
Varied other facilities

STATE HALL

New classroom buildings
(classes in this building are designated SH in class schedules)

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 Street

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 was organized by the State Board of Higher Education in 1932, following a survey of Higher Education in Oregon by the U.S. Office of Education. The system comprises all of the state-supported institutions of higher education, each institution functioning as part of an integrated whole. The system's educational program is organized so as to distribute opportunities for general education as widely as possible throughout the state, and to center on the individual campuses those specialized, technical, and professional curricula which are closely related.

The institutions making up the system are: The University of Oregon at Eugene, Oregon State College at Corvallis, Oregon College of Education at Monmouth, Southern Oregon College at Ashland, Eastern Oregon College at La Grande, and Portland State College. The University of Oregon Medical and Dental Schools are located in Portland. The General Extension Division represents all of the system campus institutions, through the division's headquarters office in Portland and through regional offices in Eugene, Corvallis, Ashland, Monmouth, La Grande, and Salem.

Each of the institutions provides a well-rounded program of general education in addition to at least one program of specialized education. At Oregon College of Education, Southern Oregon College, and Eastern Oregon College, students may complete major work in teacher education or general studies, or they may enroll in pre-professional programs. Portland State College offers major work in general studies, in selected liberal arts and professional fields, and in pre-professional programs.

The University of Oregon and Oregon State College provide two years of unspecialized work in liberal arts and sciences. Major curricula, both liberal and professional, are grouped in accordance with the distinctive functions of these institutions in the over-all state system program.

An inter-institutional booklet, *Your Education*, outlining the curricula at these state system institutions, may be obtained by writing to: Division of Information, Board of Higher Education, P.O. Box 5175, Eugene, Ore.

State Board of Higher Education*

	Term Expires
HENRY F. CABELL, Portland.....	1960
CHARLES R. HOLLOWAY, JR., Portland.....	1961
A. S. GRANT, Baker.....	1962
CHERYL S. MACNAUGHTON, Portland.....	1963
J. W. FORRESTER, JR., Pendleton.....	1963
ALLAN HART, Portland.....	1964
DOUGLAS MCKEAN, Beaverton.....	1964
RALPH E. PURVINE, Salem.....	1965
WILLIAM E. WALSH.....	1965

Officers

HENRY F. CABELL.....	President
WILLIAM E. WALSH.....	Vice-President
J. W. FORRESTER, JR.....	Member, Executive Committee

JOHN R. RICHARDS, Ph.D., Chancellor

EARL M. PALLETT, Ph.D., Secretary of Board

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

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

Portland Extension Center

September 1959

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November 1959

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December 1959

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Fall Quarter 1959

*Student Advising.....	September 14-October 3
Registration begins.....	August 31
Classes begin.....	September 28
Late fee begins.....	October 5
Last day to register or add a course.....	October 10
Last day to drop a course without responsibility for grades.....	November 7
Thanksgiving vacation.....	November 26-29
Final Examinations.....	December 14-19
Term ends.....	December 19

Winter Quarter 1960

*Student Advising.....	December 28-January 8 (1960)
Registration begins.....	December 14
Classes begin.....	January 4
Late fee begins.....	January 11
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 14-19
Term ends.....	March 19

* 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 1959-60

Spring Quarter 1960

*Student Advising.....	March 21-April 1
Registration begins.....	March 14
Classes begin.....	March 28
Late fee begins.....	April 4
Last day to register or add a course.....	April 9
Last day to drop a course without responsibility for grades.....	May 7
Memorial Day—Holiday.....	May 30
Final Examinations.....	June 6-11
Term ends.....	June 11

March 1960

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Summer Session 1960

*Student Advising.....	June 13-24
Registration.....	June 20
Classes begin.....	June 21
Last day to enter class without instructor's signature.....	June 22
Late fee begins. Last day to change program without Change-of-Program fee.....	June 23
Last day to register or to make program changes.....	June 27
Last day to withdraw without responsibility for grades.....	June 27
Independence Day—Holiday.....	July 4
Final Examinations.....	August 11-12
Portland Summer Session ends.....	August 12

June 1960

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July 1960

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August 1960

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21	22	23	24	25	26	27
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Portland Extension Center

General Information

Portland Extension Center, an activity of Oregon's General Extension Division, marks its forty-second year of extending the resources of the State System of Higher Education to students in the metropolitan area of Portland. This service is maintained in evening classes during the regular academic year and in 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 2-3201. (*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 system. Credits earned at the Center are accepted as residence credit toward a degree (subject to certain limitations indicated in the following paragraph) when transferred to University of Oregon, Oregon State College, Portland State College or any of the three regional colleges, provided that the credits have been earned as part of a planned degree program. If transferred to institutions not a part of the Oregon system, such credits are acceptable on the same basis as credits transferred from the campus institutions of the system.

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

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.

Liberal Education. Portland Extension Center, in addition to its regular course offerings, includes in its program a special group of both credit and non-

credit courses which are designed to afford adult students an opportunity for liberating learning experiences. Such courses are intended to develop not only ideas that are important, but also to show the relationship between 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. (See **Liberal Studies**, page 47.)

College-Level Telecourses. Although telecourses of varying kinds have been offered previously by the State System's General Extension Division, the 1958-59 school year marked the first large-scale shift toward a long-range, continuing college-level educational television program in Portland, with a basic course format and "class" schedule essentially the same as those for regular campus classes.

The Portland Extension Center educational television offerings are expected to be expanded considerably, as circumstances permit. Presently, the ETV project 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.

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

Students who are not working toward academic degrees, but who believe that one or more of the Center's regularly scheduled courses may benefit them vocationally or otherwise, may register as "auditors." (see page 10.) Other non-degree students may wish to enroll in a Certificate Program. (See **Special Programs**, beginning on page 13.)

Counseling Center for Adults. The Portland Extension Center-Portland Summer Session Counseling Center for Adults was established at the beginning of the 1958-59 school year 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.

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 has been completed.

Students should note that faculty members may at their discretion refuse to admit any student at the second meeting of a class if the student was not present at the first 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.*

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, divisional, 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

* 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.

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 20. 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. At either institution twelve (12) hours of graduate credit must be earned in residence. The remainder may be completed in Portland.

The degree is regarded as a professional teaching degree and not necessarily as a research degree; however, 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."

At either of these two 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 students. For 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 colleges of education). Effective September 1, 1959, and affecting students who enter the Master of Science in Education program as of the fall quarter of 1959, Oregon College of Education will accept a maximum of 21 quarter hours of approved course work completed at Portland Extension Center or in Portland Summer Sessions; the remaining 24 quarter hours must be in residence. Eastern Oregon College and Southern Oregon College will accept a maximum of 15 quarter hours of course work completed at Portland Extension Center or 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 nine hours in general courses. The thesis is optional with each student, but it is recommended for those planning further graduate work. The qualifying examination is written, and the final examination may be both written and oral.

Master of Arts in General Studies. This is a research degree. It is open to individuals 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.

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

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 Department of Nursing Education, 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.

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

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 the 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.

Special Programs

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 the Portland State College regular session, however, offer supervised teaching. A limited number of students may meet supervised teaching requirements through these facilities.

Training in Pre-School Education. Although Portland Extension Center does not offer a 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.

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

Cooperative and Certificate Programs

"PACKAGED" TRAINING 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 cost, which are billed to the sponsoring agency. Planning for such programs should begin at least ninety 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 and the Division of Special Education of the State Department of Education for the extension of facilities to prepare teachers to teach speech-handicapped children, and for the expansion of services to children with speech defects. This facility is housed at the Crippled Children's Division of the University of Oregon Medical School.

Museum Art School. A 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 jointly sponsored by Portland Extension Center and the Portland Civic Theatre. Some of the classes meet at the Civic Theatre and some at Portland Extension Center. They 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.

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.

Grading System

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

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

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 6-7). During evenings of registration week (the first week of classes), students will receive registration materials and instructions in Room 71, State Hall, from 5:10 to 8:30 p.m., Monday through Friday. At other times (during regular office hours) registration is in the Registrar's office at 1734 S. W. Park Avenue.

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 2-3201. **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, 208 S. W. 5th Avenue, Portland 4, Ore. 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 State of Oregon also has legislation affording educational assistance to veterans; information may be obtained from the State Department of Veterans' Affairs, State Office Building, 1400 S.W. 5th Avenue, Portland, 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 2-3201.

Portland Extension Center Fees

Fee Schedule

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

<i>Item</i>	<i>Per term</i>
Per credit hour rate.....	\$10.50
Minimum charge for 1 or 2 credit hours for any student, or for any class.....	21.00
Charge for students enrolled for 7 credit hours or more.....	85.00
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 \$85.00.*	

Special Fees and Charges

Late registration fee (includes auditors), per week (\$3.00 during second week of each term; additional \$1.00 for each week thereafter) (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

* Includes \$1.00 for Student Union fee at Portland State College for each student enrolled at Portland Extension Center.

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 nonacademic, of not only the General Extension Division but of any unit of the Higher Educational System, upon approval of institutional executive. Maximum of five credit hours per quarter. Subject to approval of the Dean's office, all fees and maximum credit hour limitations may be waived for retired employees; for staff members on leave the maximum credit hour limitation may be waived, but the fee is not waived.)

No deposit for breakage or loss, etc.

(Library cards are issued upon presentation to the library of the fee receipt. Cards from a previous term must be validated for succeeding terms.)

Fee Refunds

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

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

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

Library 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.

Services and Definitions

College Center. The new College Center is located on the corner of S.W. Montgomery St. and Park Ave. Every regularly-registered student may use the varied facilities offered in the College Center and may participate in the social and activity programs. Hours are 7:30 a.m.-9:45 p.m., Monday through Friday.

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

Cafeteria. Located at the south end of the ground floor of the College Center, the cafeteria offers complete meal service.

Snack Bar. Located on the ground floor of the College Center building, the Snack Bar offers hot or cold drinks, hot or cold sandwiches, ice cream and pastries.

Special Services. The College Center provides meeting and special dining rooms for student and faculty groups. Reservations may be made with the Director of the College Center.

Library. The present library, located on the second floor of Old Main, is open from 8 a.m. to 9 p.m. Monday through Friday. The new library building, located behind the College Center, on S.W. Broadway, will not be ready for use until after the beginning of the 1959-60 school year. Until the transfer is completed, the library will remain in Old Main.

Publications. The *Night-Owl*, a monthly 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, etc., are scheduled regularly, many with no admission charge.

A Year Sequence consists of three closely articulated courses extending through three terms of the academic year.

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

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

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

A Grade Point is a numerical expression of the qualitative value of a student's work. (See grading system, page 15.) Grade points are calculated on the basis of 4 points for each term hour of **A** grade; 3 for **B**; 2 for **C**; 1 for **D**, and 0 for **F**. Marks of **Inc** and **W** are disregarded in calculations of points. The grade point average (GPA) is determined by dividing the total grade points earned by the total number of hours for which the student has been registered.

Course Numbering System. Courses are numbered in accordance with the course numbering system of the Oregon State System of Higher Education (see page 20).

Description of Courses

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

Anthropology

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. Brant.

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. Prerequisites: Upper division standing and 9 hours in Anthropology or Sociology.

Applied Science

(SEE SCIENCE, PAGE 56)

Art

Classes at Museum Art School

The following classes are offered in cooperation with the Museum Art School. The registration fee is \$21.00 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 \$85.00.) Students register at the Museum Art School, S. W. Park Avenue at Madison Street, where the classes are held.

LOWER-DIVISION

- (P) AA 201a, 201b, 201c. **Survey of Visual Arts.** 1 hour 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. Tuesday, 7:30-9:30. Reynolds.
- (P) AA 255. **Ceramics.** 1 hour 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: Wednesday. Section II: Thursday. Course fee of \$3.00 in addition to registration fee. 7:30-9:30. Kennedy.
- (P) AA 290. **Painting.** 1 hour 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: Wednesday. Johanson. Section III: Thursday. Bunce. 7:30-9:30.
- (P) AA 291. **Drawing.** 1 hour 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.** 1 hour 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 \$3.00 in addition to registration fee. 7:30-9:30. Littman.
- (P) AA 295. **Display Design.** 1 hour 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.** 1 hour 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. McLarty.
- (U) AA 480. **Graphic Arts.** 1 hour 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. Grimm and staff.
- (P) AA 201, 202, 203. **Survey of Visual Arts.** 3 hours each term.
Cultivation of understanding and intelligent enjoyment of the visual arts through a study of historical and contemporary works; consideration of motives, media, and forms.
- (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.
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.** 1 hour spring.
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. Prasch.
- (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.

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. Prerequisites: for AA 313 are AA 311 and 312. Colescott and staff.
- (U) ArE 414, 415, 416. **Art in the Senior High School.** (G) 3 hours each term.
Study of art education in the secondary school, through laboratory work and individual research. Practice-teaching problems examined and studied as a group experience. Evaluation of current thinking in the field and of its application to the classroom situation. Prerequisite: ArE 314, 315, 316 or consent of instructor. Burgner.

Biology

(SEE SCIENCE, PAGE 56)

Business Administration

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. Hewitt.

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

Nonprofessional and relatively nontechnical study of the principles involved in determining taxable net income and computing federal income taxes for individuals, partnerships, and corporations. Emphasis on the reasons behind the various provisions of the Internal Revenue Code and on their effects. Designed for nonmajors and for business administration majors who are not specializing in accounting. Accounting majors should take Ac 479, 480, 481; credit will not be granted for both Ac 379 and Ac 479, 480, 481. Prerequisites: BA 111, 112, 113.

- (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 inter-organizational relationships. Prerequisite: BA 113. 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. Easton.

- (S) BA 427, 428. **Industrial Auditing.** (Public and Internal) (g)
3 hours fall and winter.

Personal standards and verification procedures for auditors of business enterprises; methods of surveying adequacy and effectiveness of accounting systems and internal control; practice in application of auditing procedures and in preparation of working papers; certification of financial statement information. Prerequisites: BA 421, 422, 423 or consent of instructor. Boyd.

- (U) Ac 479-480a, 480b-481. **Income-Tax Procedures.** (G)
3 hours fall and winter.

Principles involved in determining taxable net income and in the computation of state and federal income taxes for individuals, partnerships, and corporations; brief consideration of federal estate and gift taxes. Prerequisites: senior standing; Ac 483, 484, 485 or equivalent. Pattullo.

- (U) Ac 486. **Fund Accounting.** (Municipalities) (G) 3 hours fall.

Accounting procedures applicable to federal, state, and local governmental units and other nonprofit organizations. Emphasis on use of fund accounting as a basis for budgetary control. Prerequisite: Basic course in accounting. Boyd.

- (U) **Ac 487. Advanced Cost Accounting.** (G) 3 hours winter.
Techniques of overhead distribution; introduction to budgeting as a planning and control mechanism; theory and techniques involved in overhead application; effect of volume on costs and profits; current standard costs; distribution cost account. Prerequisite: Ac 312 or equivalent. Boyd.
- (U) **Ac 489, 490. Advanced Accounting Problems.** (G) 3 hours fall and winter.
Application of the technical phases of accounting. Professional training in practical accounting theory and auditing. Prerequisites: Ac 483, 484, 485. Required of accounting majors. Williams.
- (U) **Ac 491. Advanced Accounting Theory.** (G) 3 hours spring.
Continuation of Ac 489, 490. Williams.

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.
- (U) **MPM 125-126a, 126b-127. Business Environment.** 3 hours winter and spring.
Implications, for business and the businessman, of the social and political environment within which business exists and functions in the United States. Origins and trends of public attitudes toward business; emphasis on the social responsibilities of business, and to the evolution of good managerial attitudes and policies. Walton.
- (P) **BA 221. Elements of Organization and Production.** 3 hours winter.
Principles of management as applied to commercial and industrial concerns.
- (P) **BA 222. Elements of Finance.** 3 hours fall.
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. Prerequisites: BA 111, 112, 113.
- (P) **BA 223. Elements of Marketing.** 3 hours winter or spring.
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.
- (U) **BS 232. Business Statistics.** 3 hours fall.
Emphasis on appreciation and understanding of statistical methods. Charts and tables; sampling; averages, time-series analysis; index numbers; a brief introduction to the concept of linear correlation.

UPPER-DIVISION

- (P) **BA 315. Analysis of Financial Statements.** 3 hours winter.
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 320. Financial Institutions.** 3 hours winter.
Structure, services, and economic effects of financial organizations and institutions with which consumers and business firms come in contact. Required of all majors.
- (U) **FBE 322. Business Finance.** 3 hours spring.
Introduction to the financial problems of new and established business enterprises; promotion, form of organization, management of working capital, long-term capital. Prerequisite: FBE 320. Not open to students who have had BA 222.

- (U) BEd 333. **Office Organization and Management.** 2 hours spring.
Elements of office organization, office management, office records and systems. Special study of the office manager as an executive, and his qualifications. Prerequisite: consent of instructor.
- (U) MPM 341. **Principles of Advertising.** 3 hours fall.
Advertising as a factor in the distribution process; the advertising agency; the "campaign"; the function of research and testing; the selection of media—newspapers, magazines, broadcasting, outdoor advertising, direct mail. 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.
- (P) BA 407. **Seminar: Business Operations and Management.**
1 hour each term.
Student selected problems in business operation and business management to be studied by the individual and discussed in group meetings under the direction of academic staff. Prerequisites: upper-division standing and consent of instructor.
- (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.
- (U) MPM 411. **Business Public Relations.** 3 hours fall.
Public relations of business firms; tools and techniques for determining public relations; methods of securing good public relations. Open to nonmajors with consent of instructor. Walton.
- (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.
- (U) MPM 412. **Personnel Management.** (G) 3 hours fall.
The place and significance of personnel management in the modern business organizations; personnel policies and practices conducive to good relations with employees. Personnel problems of small organizations. Prerequisite: consent of instructor. Ford.
- (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.
- (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. Ford.
- (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. Prerequisites: MPM 411, 412 and consent of instructor. Ford.
- (U) FBE 418. **Advanced Business Law.** (G) 3 hours spring.
A study of specific fields of law as related to business: negotiable instruments; the law of sales of personal property; the law of real property, including landlord and tenant and mechanic's liens; the law concerning security devices for credit transactions; business torts; government regulation of business; labor law. Prerequisite: BA 216 or consent of instructor. Robert.

- (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. Marble.
- (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. Marble.
- (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. Marble.
- (U) MPM 428. **Manufacturing.** (G) 3 hours fall.
Manufacturing industries of the United States; their raw materials, processes, and current technology and marketing development. Prerequisites: BA 222, 223 or equivalent. Lomax.
- (U) MPM 429. **Production Management.** 3 hours winter.
Nature and scope of production processes; economics, technological, regional, and managerial organization or production; plant location; design and layout; control of plant investment; working capital investments and labor costs; planning production operations. Prerequisites: BA 111, 112, 113; BA 222, 223 or equivalent.
- (U) MPM 434. **Problems in Distribution.** (G) 3 hours winter.
Critical study of marketing problems. Strength and weakness of various retail marketing channels; merits and limitations of wholesale marketing channels; extent and adaptability of direct marketing. Prerequisite: BA 223 or equivalent. Richins.
- (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.
Structure of sales organization; sales policies; control of sales operation; sales planning; market analysis; coordination of production and sales; selection, training, and management of salesmen. Prerequisite: BA 223 or equivalent or consent of instructor. 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: BA 223 or equivalent. Dodge.
- (U) FBE 437. **Credits and Collections.** (G) 3 hours winter.
The credit and collection policies of wholesale concerns, retail firms, and banks; sources of credit information, use of agency reports, interpretation of financial statements; collection tools and their uses. Prerequisites: BA 222, 223 or equivalent.
- (U) MPM 439. **Retail Buying.** (G) 3 hours spring.
Buying problems. Merchandising organization, merchandising resources, determination of what and when to buy, model stock and buying plans, buying offices, group, central, and cooperative buying, techniques of selecting merchandise, trading points, and trade relations. Prerequisite: BA 436. Dodge.
- (U) MPM 442. **Principles of Salesmanship.** (G) 3 hours spring.
Principles and techniques of personal salesmanship; selling reactions. From the standpoints of seller and buyer. Prerequisite: BA 223 or consent of instructor. Richins.

- (U) **MPM 445. Retail Advertising.** (G) 3 hours winter.
Study of management problems of the retail advertising department. Advanced practice in layout, copy writing, and production of retail advertising for newspapers, radio, television, and direct mail. Prerequisite: BA 339 or consent of instructor. Not open to students who have had BA 441 or BA 443. Wales.
- (U) **MPM 448. Air Transportation.** (G) 3 hours winter.
Air transportation systems; federal regulation; airport development in the United States; feeder air lines; nonscheduled air transportation. Prerequisite: consent of instructor. Ziebarth.
- (U) **MPM 449. Industrial Traffic Management.** (G) 3 hours fall.
Organization of a traffic department; organization and service of rail, truck, and air lines; theory and application of freight rates; shipping documents; routing; materials handling; claims; classification and rate-committee procedure. Prerequisite: consent of instructor. Ziebarth.
- (U) **MPM 453. Business Policies.** (G) 3 hours spring.
Coordination of the specialized work given in the school; the interdependence of different departments of a business concern. Open to senior majors who have had or are taking Business Law. Prerequisite: consent of instructor. Ziebarth.
- (U) **MPM 455. Casualty Insurance.** (G) 3 hours winter.
Organization of companies, risks covered, and contracts, in accident insurance of all types; automobile, plate glass, elevator, public liability, steam boiler, burglary, robbery, forgery, etc.
- (S) **BA 461. Industrial Purchasing.** 3 hours winter.
Significant managerial problems raised by purchase and control of materials for industrial use as they affect control of quality of products, maintenance of operating efficiency, and quotation of competitive prices. Goddard.
- (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, 464, 465. Investments.** (G) 3 hours each term.
Methods for evaluating various kinds of investment securities; formulation of an investment policy. Detailed study of the special phases of investments including taxation, brokerage services, and security markets. Application of investment principles to the analysis of specific securities in the industrial, public-utility, and railroad fields. Burrell.
- (U) **FBE 466. Business Cycles.** (G) 3 hours spring.
Study of economic changes; classification and analysis of business cycle theories. The availability, use, and the limitations of business barometers in forecasting; their possible application to the business enterprise. Prerequisite: senior standing or consent of instructor. Taylor.
- (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.

SEE ALSO:

Economics
Engineering
Psychology
Secretarial Science and Business Education

Chemistry

(SEE SCIENCE, PAGE 56)

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. Elkinton.
- (P) Ec 212. **Outlines of Economics.** 3 hours spring.
A rapid survey of the principles of economics and economic institutions.

UPPER-DIVISION

- (P) Ec 326. **Organized Labor.** 3 hours fall.
History of the labor movement, its philosophy and growth. Present structure and position of organized labor. Prerequisites: Ec 201, 202, 203. Lovell.
- (U) Ec 327. **Labor Legislation.** 3 hours winter.
Labor legislation in the United States; problems facing employee, employer, and public that call for regulation through public authority. Prerequisites: Ec 201, 202, 203 Lovell.
- (S) AEc 341. **Principles of Agricultural Marketing.** 3 hours winter.
Marketing farm productions, markets; marketing services, prices; role of producers, middlemen and consumers; improving the marketing of major agricultural products. Prerequisite: Ec 203 or 212, or consent of instructor. Hollands.
- (P) Ec 411. **Monetary and Banking Theory.** 3 hours spring.
Operations of commercial banks, the Federal Reserve System, and the Treasury that affect the United States monetary system. Prerequisites: Ec 201, 202, 203 or consent of instructor. Blumel.
- (U) Ec 415. **Economy of the Pacific Northwest.** (G) 3 hours fall.
Changes in and sources of personal income in the Pacific Northwest; industrial basis of the regional product; balance of payments; development of wood products. Prerequisites: Ec 201, 202, 203. Campbell.
- (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. Prerequisites: Ec 201, 202, 203. Halley.
- (P) Ec 450. **Comparative Economic Systems.** 3 hours winter.
Analysis and appraisal of contemporary economic systems: capitalist, socialist, fascist, communist. Prerequisites: Ec 201, 202, 203. Halley.

Education

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. Sullivan.

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. In this course attention will be devoted to Oregon School Law and System of Education. Guy, Hummel.

- (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. Required field experiences supplement theoretical study. Prerequisite: Psy 201, 202. Bernard, Guy.

- (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. Pierson, 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.

- (P) Ed 351. **Health Education.** 3 hours winter.

Teaching of health education with emphasis on health knowledge, health attitudes, and health habits of school children, and the development of a health-service program. Special study of the state health-education program. Prerequisite: Sc 101, 102, 103.

- (P) Ed 356. **Methods and Materials: Reading in the Elementary School.** 3 hours fall.

The place of reading in the modern elementary school. Trends and practices in reading instruction and prevention of reading difficulties. A study of appropriate materials and methods. *Observation is required.* Prerequisite: Ed 310, 312, and Psy 311.

- (P) Ed 358. **Methods and Materials: Language Arts and Social Studies.** 3 hours winter.

Trends and practices in listening, speaking, spelling, handwriting and English. Educational objectives of social studies and social problems of elementary school pupils. Organization and planning of a unit of work. Attention will be given to appropriate methods and materials in language arts and social studies. *Observation is required.* Prerequisite: Ed 310, 312, and Psy 311.

- (P) Ed 359. **Methods and Materials: Science and Mathematics.** 3 hours spring.

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, 312, and Psy 311.

- (P) Ed 380. **Elementary-School Library.** 3 hours fall.
Organization, administration and development of the elementary-school library, including instruction in simple methods of handling essential technical, mechanical, and business processes; the care and repair of books, evaluation of reference materials useful for both teacher and children; stimulation of wider use of books for study and recreation; utilization of the library resources of Oregon, and services of the school library to the community. LaRiviere.
- (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. Prerequisites: Eng 388 and consent of instructor. Petersen.
- (S) (C) (U) Ed 405. **Reading and Conference.**
Terms and hours to be arranged.
Registration only after graduate adviser's approval.
- (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. Anderson.
- (U) Ed 424. **Measurement in Education.** (G) 3 hours fall or spring.
Use and interpretation of informal and standardized tests as supervisory and guidance instruments for the diagnosis, analysis, evaluation and improvement of instruction in the elementary and secondary schools. Test planning, item writing, essay testing, administration and scoring, analysis of scores and grade assignment. Simple statistics of test interpretation. Fullmer.
- (S) Ed 424. **Measurement in Education.** (G) 3 hours winter.
Use of standard tests and scales to measure achievement in school subjects; elements of statistical method. Prerequisite: senior standing. Hall.
- (S) FL 428. **Curriculum Enrichment for Young Children.** (G) 2 hours spring.
Methods of relating literature, art, music, and science activities to child interests; projects for nursery school. Prerequisite: consent of instructor. Zilk.
- (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.
- (S) Ed 440. **History of Education.** (G) 3 hours fall.
Growth and development of Education; Plato, Aristotle, Renaissance educators, Comenius, Locke, Rousseau, Pestalozzi, Froebel, Herbart, Herbert Spencer, and Dewey. Prerequisites: Ed 311, 312. Ten Pas
- (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 for Kindergarten and Primary Children.**
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 winter.

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

- (U) Ed 463. **The Maladjusted Child.** (G) 3 hours winter.

The discovery and treatment of the emotionally and socially maladjusted child; the home, school and community in relation to the child's mental health. Prerequisites: Ed 310, 312. Lowe.

- (U) Ed 464. **The Mentally Retarded Child.** (G) 3 hours spring.

Identification and guidance of the mentally deficient and slow learner. Mattson.

- (U) Ed 465. **Diagnostic and Remedial Techniques.** (Reading)

(G) 3 hours spring.

Diagnostic, remedial, and corrective techniques in basic school subjects; application of techniques to actual cases.

- (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 471. **Administration of Special Education.** (G) 3 hours fall.

Organizing, financing, housing, equipping, staffing, and supervising the special-education program. Desirable educational provisions for each type of handicapped child. Gubser and staff.

- (S) Ed 476. **School Law and Organization.** (G) 2 hours winter.

Oregon school system and laws on which it is based; problems of Oregon schools; plans for solution; course of study; trends in educational development. Prerequisite: junior standing. Meindl.

- (U) Ed 480. **Psychology of Reading Instruction.** (G) 3 hours winter.

The fundamental nature of the reading process; principles of growth, adjustment, and learning basic to reading achievement; psychological foundations of methods of reading instruction. Hill.

- (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 upper division education. Ferrier.

- (U) Ed 484. **The Junior High School.** (G) 3 hours spring.

Origin and functions of the junior high school; characteristics and needs of the early adolescent; administration of the junior high school; curriculum and instruction; guidance; school activities; evaluation of the junior high school.

- (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. Gridley, Pierson.

- (S) Ed 486. **Occupational and Educational Information.** (G) 3 hours winter. Materials available regarding occupations; interpretations of present trends; value and usefulness for high-school and college students. Prerequisite: senior standing. Gridley.
- (S) Ed 487. **Counseling Techniques.** (G) 3 hours spring. Mental, achievement, trade, and other tests; administration of such tests; classifications, methods in educational and vocational counseling. Prerequisite: Ed 485. Gridley.
- (U) Lib 487. **Cataloging and Classification.** (G) 3 hours spring. 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. Ladley.
- (U) Lib 488. **Books and Related Materials for Young People.** (g) 3 hours fall. 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) 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.

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) (C) 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. **Education Seminar: Public School Administration.** 3 hours any term. Opportunity for experienced administrators to analyze and discuss actual situations in terms of the relevance of environmental and human factors to the administration of education. Enrollment only after consent of instructor. Prerequisite: certification as an administrator and current employment in an administrative post. Watson. Fall: Elementary School Principals; Winter: Superintendents; Spring: Secondary School Principals.
- (U) Ed 507. **Education Seminar: Recent Trends in School Administration for Superintendents.** 3 hours fall. Designed to assist school superintendents in evaluation of the latest developments in school administration. Current literature will be reviewed. Admission by consent of instructor only. Hummel.
- (U) Ed 507. **Education Seminar. Unit Teaching in the Junior and Senior High School.** 3 hours fall. Schaper.
- (U) Ed 512. **Research Procedures in Education.** 3 hours fall. The nature and procedures of research in education; special techniques of thesis, field study, research paper, and dissertation. Open to graduate students majoring in other fields. Does not take the place of individual supervision of the student's thesis. An introductory course in statistics is desirable preparation. Hall.

- (S) Ed 512. **Research Procedures in Education.** 3 hours spring.
Methods, techniques, and tools for doing research work; meaning of scientific method; ways of locating and formulating problems; necessary statistical tools; collections and interpretations of data; preparation of research reports. Hall.
- (U) Ed 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. Hearn.
- (U) Ed 523. **School Activities.** 3 hours fall.
Principles and purposes of school activities; pupil participation in school government; assemblies, clubs, social activities, athletics, speech activities, drama, music and publications; evaluation of activity program. Hearn.
- (U) Ed 526. **High-School Counseling.** 3 hours winter.
The purposes, techniques, and processes of counseling. Dynamics of adjustment and personality change. Methods of promoting emotional, educational, and occupational adjustment. Fullmer.
- (U) Ed 527. **Secondary-School Administration and Supervision.** 3 hours spring.
The secondary-school principalship; principles of administration, staff relationships, public relations, and professional growth; business administration; administration of guidance services, curriculum, and school activities; evaluation of the secondary school. Watson.
- (U) Ed 536. **Language Arts in the Elementary School.** 3 hours fall.
The role of language arts in the elementary school program; objectives, research findings in language development; the teaching of spelling, writing, and speaking-listening skills; newer instructional materials; testing and evaluation. Nye, V.
- (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.
- (S) Ed 543. **History of American Education.** 3 hours winter.
Intellectual development of America with special reference to education. Prerequisite: graduate standing in education.
- (S) Ed 546. **Philosophy of Education.** 3 hours spring.
Fundamental problems of education, with some attempt at their solution; meaning of philosophy; philosophy of education; value for teacher and administrator. Prerequisite: graduate standing in education. Ten Pas.
- (U) Ed 552. **Elementary-School Problems.** 3-4 hours fall.
Selected current problems; issues and theories of elementary education; characteristics of modern teaching; major current trends in elementary education. Sandin.
- (U) Ed 553. **Elementary-School Curriculum.** 3-4 hours spring.
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. Sandin.

- (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.
- (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.
- (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. Hines.
- (U) Ed 575. **School Finance.** 3 hours fall.
The problems of school finance and business management; sources of school income, relationship to the state financial structure, budgeting and accounting, as 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. Romney.
- (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

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

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 6:15 p.m., in one of the public schools. Meeting times and places are detailed in the **Class Schedule** published prior to each term. **Students who expect academic credit must complete their registration with the registrar at Portland Extension Center in accordance with the Center's established registration dates and procedures.** Students who seek In-Service credit only must comply with the established procedures of the Portland Public Schools.

GRADUATE

- (U) Ed 507. **Education Seminar: Economic Education.** 2 hours winter.
Study of the basic principles of economic education and their application in the classroom. The curriculum will be surveyed from the standpoint of economic education, and means of increasing competencies in these areas will be considered. Smith.
- (U) Ed 507. **Education Seminar: The Gifted Child.** 2 hours fall.
Study of problems in the education of gifted children in the elementary school. Emphasis on identification and development of appropriate instruction in regular classes and special interest classes. Huston, Williams.
- (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.
- (C) Ed 507. **Seminar: Individual Differences in the Classroom.** 2 hours fall.
Implications for planning interpersonal relationships in a variety of educational situations, such as: teacher-pupil; teacher-teacher; teacher-administration. Emphasis on individual self-concepts and attitudes. Brody.
- (C) Ed 507. **Seminar: Mathematics in the Intermediate and Upper Grades.** 2 hours winter.
Both content and method will be studied. In content, 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. In content, the emphasis will be upon basic understanding rather than upon computation. Mosher.
- (S) HEd 507. **Seminar: Methods in Home Economics Education.** 2 hours spring.
Current trends in the teaching of home economics with special attention to cooperative planning and problem solving, discussion and other interaction techniques; use of socio drama and audio-visual materials, including radio and television. Individual teacher needs served through work on special problems. O'Reilly.
- (U) Ed 507. **Education Seminar: Methods in Ninth Grade English and Social Studies.** 2 hours fall.
Methods in teaching English and social sciences related to library and study skills, developmental reading and current events. Schaper.

- (C) Ed 507. **Seminar: Primary Education.** 2 hours winter.
Consideration will be given to the total primary program; including methods, materials, programs, program planning, and grouping. Mosher.
- (S) Ed 507. **Seminar: Procedures for Supervising Teachers.** 2 hours fall.
Designed for administrators and classroom teachers who will work with student teachers.
- (U) Ed 507. **Education Seminar: Recent Developments in Science.**
2 hours spring.
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. **Education Seminar: Science for Elementary School Teachers.**
2 hours fall.
Designed for teachers who need to strengthen their background in physical and biological sciences. Class work will be organized to serve individual needs of teachers. Stotler.
- (U) Ed 507. **Education 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.

Multnomah County Public Schools

The following courses, arranged in cooperation with the Multnomah County School Health Agency, are offered at Russellville School, 124 S. E. 102nd Ave., Portland. Classes meet from 6:45 to 9:25 p.m. Students must register at Portland Extension Center in accordance with the Center's established registration dates and procedures.

- (C) 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. Martin, L.
- (U) Psy 441. **Group and Individual Differences.** (G) (First Term)
3 hours winter.
Basic principles for quantitative assessment of human characteristics; research findings concerning intelligence, achievement, aptitudes, interests, and personality; group differences related to sex, age, social class, race, nationality. Martin, L.
- (U) Psy 450. **Abnormal Psychology.** (g) 3 hours spring.
Various forms of unusual behavior, including anxiety states, hysteria, hypnotic phenomena, and psychoses. Normal motives and adjustment mechanisms as they are exaggerated in the so-called neurotic person. Martin, L.

Engineering*

General Engineering

LOWER-DIVISION

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

Lectures and elementary problems dealing with the basic concepts common

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

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.
- (P) GE 201, 202, 203. **General Engineering.** 4 hours each term.
Courses designed for technical terminal students and nonprofessional degree students. Application of the basic principles of science to general problems of engineering. Prerequisite: GE 106 or equivalent. One lecture; one recitation; two 3-hour computation periods.
- (P) ME 217, 218, 219. **Mechanics of Materials.** 3 hours each 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: Mth 103. Two recitations; one 2-hour computation period.

Civil Engineering

NON-CREDIT

- (E) CE 11, 12. **Civil Engineers' Review.** Non-credit (3) fall and winter,
Weathersbee and Zarosinski.

UPPER-DIVISION

- (S) CE 405. **Reading and Conference: Design of Steel Structures.**
3 hours winter.
Zarosinski.
- (S) CE 405. **Reading and Conference: Analysis of Indeterminate Structures.**
3 hours spring.

Electrical Engineering

UPPER-DIVISION

- (S) EE 405. **Reading and Conference: Control System Engineering.**
3 hours each term.

GRADUATE

- (S) EE 505. **Reading and Conference: Circuit Analysis by Matrix Methods.**
3 hours fall.
Oorthuys.

Industrial Engineering

UPPER-DIVISION

- (S) IE 405. **Reading and Conference: Survey and Examples of Operations Research Applications.** 3 hours fall.
Engesser, Link.

Mechanical Engineering

UPPER-DIVISION

- (S) ME 405. **Reading and Conference: Nuclear Reactors.**
3 hours fall and winter.
Daly.

English Literature and Writing

Writing

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. Ordeman.

- (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.

- (S) Wr 221, 222, 223. **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.

UPPER-DIVISION

- (E) Wr 354, 355, 356. **Advanced Creative Writing.** 2 hours each term.

Techniques of professional articles and miscellaneous nonfiction. Writing in the various forms to provide increased ease, certainty, and force in written expression. A continuation, with emphasis on effectiveness and craftsmanship, for those who have taken lower division courses in rhetoric. Prerequisite: consent of instructor. Powers.

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

For students expecting to teach English in high school. Practice in writing and a review of the rules of composition. Required for satisfaction of the high-school teaching requirement in English. Prerequisites: Wr 111, 112, 113. Boggs.

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. Muirden, Tuttle.

- (P) Eng 107, 108, 109. **World Literature.** 3 hours each term.

A sequence in narrative prose, drama, and poetry. Complete books are studied so that the student may be familiar with some of the masterpieces in Western world literature. Netboy.

- (P) Eng 201, 202, 203. **Shakespeare.** 3 hours each term.
Study of the important plays—comedies, histories, and tragedies. Hart.
- (P) Eng 253, 254, 255. **Survey of American Literature.** 3 hours each term.
American literature from its beginning to the present day. Two consecutive terms will satisfy the high-school teaching requirements in English. Ford.

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.
- (U) Eng 328. **American Drama.** 3 hours spring.
A study of major American dramatists. Johnson.
- (P) Eng 388. **Children's Literature and Library.** 3 hours fall.
An introductory course designed to give acquaintance with some significant books, for children, with emphasis on the quality of a book; its format, text, and illustrations. An investigation of school library procedures with suggestions for the presentation of children's literature in the elementary school. Petersen.
- (U) Eng 391, 392, 393. **American Novel.** 3 hours each term.
Development of the American novel from its beginnings to the present. Oliver.
- (U) Eng 398, 399. **Contemporary Drama.** 3 hours fall and winter.
First term: English and continental romantic drama, the new stage realism, melodrama, and the triumph of naturalism with Ibsen and the Russians. Second term: English and American dramatists from Wilde, Shaw, and Galsworthy to O'Neill, Sherwood, Wilder, and Fry. Johnson.
- (U) Eng 440, 441, 442. **Seventeenth-Century Literature.** (G) 3 hours each term.
Poetry and prose from Jonson to Dryden studied in relation to the trends of thought and feeling which characterize the century. Bierman.
- (U) Eng 481, 482, 483. **Major American Writers: The Romantic Idealists.** (G) 3 hours each term.
Fall: Emerson and Thoreau. Winter: Hawthorne and Melville. Spring: Poe and Lowell. Oliver.
- (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. Readings from English and American literature, selected in part from state-adopted high-school texts. Does not apply toward the satisfaction of the minimum requirements for a major in English. Boggs.
- (U) Eng 491. **Introduction to Modern English.** (g) 3 hours winter.
A general view of modern English vocabulary, grammar, pronunciation, and spelling. Recommended for teachers of English. Boggs.

Foreign Languages

French

LOWER-DIVISION and NON-CREDIT

- (E) RL 1, 2, 3. **Conversational French.** Non-credit (2) each term.
Beginning exercises in the spoken language. Martines.
- (P) RL 50a, 50b, 51a. **First-Year French.** (First Course) 2 hours each term.
An introduction to French, stressing reading and speaking. Exercises in elementary composition and grammar. Desroches.
- (P) RL 51b, 52a, 52b. **First-Year French.** (Second Course) 2 hours each term.
Continuation of RL 50a, 50b, 51a. Lecuyer.
- (P) RL 101a, 101b, 102a. **Second-Year French.** (First Course)
2 hours each term.
Study of selected texts of representative authors; review of grammar; considerable attention to oral use of language.

German and Scandinavian

LOWER-DIVISION

- (P) GL 50a, 50b, 51a. **First-Year German.** (First Course) 2 hours each term.
Provides a thorough grammatical foundation and an elementary reading knowledge of German as well as an understanding of the spoken language. Langhammer.
- (P) GL 51b, 52a, 52b. **First-Year German.** (Second Course) 2 hours each term.
Continuation of GL 50a, 50b, 51a. Bekker.
- (U) GL 60a, 60b, 61a. **First-Year Norwegian.** (First Course) 2 hours each term.
Designed to give a thorough grammatical foundation in idiomatic Norwegian, with emphasis on both the reading and speaking of the language.
- (P) GL 101a, 101b, 102a. **Second-Year German.** (First Course)
2 hours each term.
Review of grammar and composition. Reading of selected texts of representative authors. Conversation.

Italian

NON-CREDIT

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

Japanese

NON-CREDIT

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

Russian

LOWER-DIVISION

- (P) SL 50a, 50b, 51a. **First-Year Russian.** (First Course) 2 hours each term.
The elements of the Russian language. Elementary reading, composition, and conversation. Steussy.

- (P) SL 51b, 52a, 52b. **First-Year Russian.** (Second Course) 2 hours each term.
Continuation of SL 50a, 50b, 51a.
- (U) SL 101a, 101b, 102a. **Second-Year Russian.** (First Course) 2 hours each term.
Continued study of grammar and composition; reading of representative works by great authors. Krivoshein.

Spanish

LOWER-DIVISION and NON-CREDIT

- (E) RL 4, 5, 6. **Conversational Spanish.** Non-credit (2) each term.
Beginning exercises in the spoken language. Anderson.
- (P) RL 60a, 60b, 61a. **First-Year Spanish.** (First Course) 2 hours each term.
An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Herman.
- (P) RL 61b, 62a, 62b. **First-Year Spanish.** (Second Course) 2 hours each term.
Continuation of RL 60a, 60b, 61a. Kraft.

General Science

(SEE SCIENCE, PAGE 56)

General Studies

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

Portland Extension Center Adviser: DR. K. WILLIAM LEFFLAND

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.

SEE ALSO: Liberal Studies

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. Courtney.

UPPER-DIVISION

- (P) Geog 304, 305, 306. **Economic Geography.** 3 hours each term.
A systematic survey of man's occupations in response to resources provided by natural environment. Special emphasis on significance of geographic factors in structure and location of industry. Brooke.
- (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.
- (U) Geog 391. **Geomorphology.** 4 hours fall.
Systematic study of land forms. Field trips. 1 two-hour laboratory period. Prerequisites: Geol 101, 102. Brooks.
- (U) Geog 392. **Regional Geomorphology.** 4 hours winter.
Study of selected geomorphic regions of the earth with the aid of maps and aerial photographs. Prerequisite: Geog 391. Brooks.
- (P) Geog 425. **Geography of Conservation.** 3 hours spring.
The geographic distribution of American resources; methods for maintaining the optimum resource use. Prerequisites: Geog 105 or Geog 208, 209, 210. Brooks.
- (U) Geog 426. **Geography of Europe.** (G) 3 hours winter.
Some of the special problems of Europe today studied in light of the geography of the continent. Prerequisites: Geog 105, 106, 107 or Geog 201, 202, 203. Dart.
- (U) Geog 427. **Geography of the Soviet Union.** (G) 3 hours spring.
Geography of the Soviet Union; its resources, peoples, and world position. Prerequisites: Geog 105, 106, 107 or Geog 201, 202, 203. Dart.

Geology

(SEE SCIENCE, PAGE 56)

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; emergency procedures; safety phases of civil defense program. Minimum: 20 students. 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. (Sequence may be substituted for Ed 344.)
Content of the course is as follows:
PE 411. Rhythmics and folk dancing.
PE 412. Games of low organization.
PE 413. Individual team sports and games.
- (S) PE 447. **Principles of Physical Education.** (g) 3 hours winter.
General philosophy and principles of physical education and their relation to general education. Prerequisite: consent of instructor. Bergstrom.
- (S) PE 448. **Administration of Physical Education.** (g) 3 hours fall.
Administrative problems; organization of departments and of instructional and recreational programs; supervision of both teaching and physical plant. Prerequisite: consent of instructor. Bergstrom.
- (U) PE 472. **Kinesiology.** 3 hours spring.
Action of muscles involved in fundamental movements, calisthenics, gymnastics, and athletics. Prerequisite: Bi 371, 372 or equivalent. Hultgren.

GRADUATE

- (U) PE 550. **Current Movements in Physical Education.** 3 hours winter.
The different schools of thought and practice which determine the purposes and procedures in the professional field of physical education. Analysis of the Oregon and other regional public school programs. Prerequisite: graduate standing in physical education. Washke.
- (U) 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: Camping and Outdoor Education.**
3 hours spring.
Consideration will be given to the study of selected problems and major issues in the field of camping and outdoor education. Rodney.
- (U) Rec 552. **Principles and Problems of Recreation Supervision.** 3 hours fall.
The purpose of supervision; principles and techniques of supervision in a modern program of recreation; staff relationships; departmental organization; policies, regulations, problems. Prerequisite: consent of instructor. Rodney.
- (U) Rec 553. **Administration of Recreation.** 3 hours winter.
Organization and administration of recreation programs in recreational districts, communities, and municipalities; legal aspects, source of funds, types of programs. Rodney.

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

UPPER-DIVISION

- (U) Hst 350, 351, 352. **Hispanic America.** 3 hours each term.
A survey of Hispanic America from the early Indian civilization through the periods of Spanish conquest and colonization; the wars of independence; the rise of national states; their internal development and foreign relations. Dahl.
- (U) Hst 443. **History of France.** (G) (Third Term) 3 hours fall.
1848 to the present. Prerequisite: introductory course in European history or reading knowledge of French. Cox.
- (U) Hst 446. **Modern Germany.** (G) 3 hours winter.
The German Empire, the republican experiment of 1918-33, the National Socialist regime, World War II and after. Cox.
- (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 469. **Twentieth Century England.** (G) 3 hours spring.
Social, political, economic and intellectual changes in Great Britain in the twentieth century. Cox.
- (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.
- (U) Hst 476, 477. **History of the West.** (G) 3 hours fall and winter.
The American frontier. First term: the early American frontier. Second term: the trans-Mississippi West. Hoffmann.
- (P) Hst 478. **History of the Pacific Northwest.** 3 hours any term.
Detailed study of the building of civilization in the Pacific Northwest. Not open to students who have had Hst 377 Oregon History. Prerequisites: Hst 201, 202 or consent of instructor. Gilmore, Hoffmann.
- (U) Hst 478. **History of the Pacific Northwest.** (G) 3 hours winter.
(This class open only to those students enrolling in it for graduate credit.) Detailed study of the building of civilization in the Pacific Northwest. Not open to students who have taken Hst 377. Prerequisites: Hst 201, 202 or consent of instructor. Gilmore, Hoffmann.
- (U) Hst 479. **Forces and Influences in American History.** (G) 3 hours spring.
Geographic influences; influence of the frontier; inheritance and tradition; economic forces; nationalism; sectionalism; manifest destiny; democracy. Hoffmann.
- (U) Hst 494, 495, 496. **History of China.** (G) 3 hours each term.
Fall: from legendary times through the T'ang Dynasty (618-907); winter: from the Sung Dynasty (960-1276) to the "Second Treaty Settlement" of the Manchus in 1860; spring: 1860 to the present. Webb.

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. Morris.

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. Prerequisites: CT 212, 250, AA 161, 178, or consent of instructor. Wasson.
- (S) FL 311. **Child Development.** 3 hours winter.
Growth and development of normal pre-school children. Prerequisite: Psy 207 or 202. Aikin.
- (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).
- (S) FL 428. **Curriculum Enrichment for Young Children.** (G) 3 hours spring.
Methods of relating literature, art, music, and science activities to child interests; projects for nursery school. Prerequisite: consent of instructor. Zilk.

SEE ALSO:

Art
Education
Sociology

In-Service Training Courses

(SEE EDUCATION, PAGE 36)

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

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 445. **Retail Advertising.** (G) 3 hours winter.
Study of management problems of the retail advertising department. Advanced practice in layout, copywriting, and production of retail advertising for newspapers, radio, television, and direct mail. Prerequisite: J 339. Not open to students who have had J 441 or J 443. Wales.
- (U) J 455. **Supervision of School Publications (Journalism for Teachers).** (g) 3 hours fall.
Principles and techniques of journalism likely to be utilized by journalism teachers, publications advisers, and teachers or administrators with public

relations assignments, in the junior and senior high school and junior college. (Limited to teachers, advisers, and administrators at these levels, and to upper-division students preparing to teach at these levels; not open, for credit, to journalism majors.) Martin, R.

(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. Martel.

UPPER-DIVISION

(S) LA 326. **Plant Materials.** 3 hours winter.

Trees, shrubs, vines, and perennials and their uses in plant composition. Solberg.

(S) LA 392. **Planting Plans.** 2 hours spring.

Planting plans; estimates of costs; construction and seasonal care of planting areas. Prerequisite: LA 290, 326, or consent of instructor. Martel.

Liberal Studies

The following courses are assembled here for the convenience of students who may wish to find a list of enriching or liberating course-offerings under a single heading. The "survey" and "appreciation" courses are usually freshman or sophomore level offerings, and their values to the mature person will depend upon the degree of an individual's development and need.

Most of the courses are designed to deal at a more advanced level with the important ideas that pervade several subjects as normally presented. Here, the effort is to provide in single offerings the relationships in important ways of thinking that are usually applied in separate subjects at separate times. The object of these courses is to liberate in the best sense.

Some of the courses are dual listings, shown also under **Art, Drama, and Literature** in this Catalog. Interested students should see, in addition, listings under **History, Philosophy, and Religion**.

Arts

NON-CREDIT

(E) Hum 6, 7. **The Western Heritage Seen Through Drama.**

Non-credit (2) fall and winter.

Selected ideas and philosophical and moral issues in Western Civilization reflected in certain dramas from Aeschylus to Eugene O'Neill. Reading in and discussion of relevant drama and related literature. Netboy.

(E) SS5. The Middle East: Lands, Peoples, and Problems.

Non-credit (2) spring.

The shift in social values and the transition from a religious to a secular outlook upon life in the Middle East provides the framework within which current problems of the area are discussed. Egypt, Iran, Turkey, and Israel are emphasized. Mostofi.

LOWER-DIVISION**(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. Muirden, Tuttle.

(P) AA 201, 202, 203. Survey of Visual Arts. 3 hours each term.

Cultivation of understanding and intelligent enjoyment of the visual arts through a study of historical and contemporary works; consideration of motives, media, and forms.

(U) Sp 267, 268. Appreciation of Drama. 2 hours winter and spring.

Study of design, acting, playwriting, criticism. Appreciation of the drama, radio and television play as art forms.

UPPER-DIVISION**(P) GSt 321. Contemporary American Character. 3 hours winter.**

A seminar course designed to explore the relevancy of contemporary social criticism concerning the strength or weakness of our present and projected "styles of life" in American society. Haggard.

(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 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.

(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.

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.

Sciences

UPPER-DIVISION

- (P) **GSt 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) **GSt 410. The Meaning of Evolution.** 3 hours spring.
Heredity and evolution as they apply to human relations, including literature, sociology, psychology. Clarkson.

GRADUATE

- (C) **Sc 511. Contemporary Developments in the Sciences and Mathematics.** 3 hours. (Term to be announced)
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.

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 spring.
Prerequisite: one and one-half years of high-school algebra, or Mth 100. Dodge, Lawrence.
- (P) **Mth 102. Plane Trigonometry.** 4 hours winter.
Prerequisite: Mth 101. Dodge.
- (P) **Mth 103. Analytic Geometry.** 4 hours spring.
Prerequisite: Mth 102. Dodge.
- (P) **Mth 111. Mathematics for Elementary Teachers.** 3 hours 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, Byrne.

UPPER-DIVISION

- (S) **Mth 411, 412, 413. Calculus.** (Advanced) (G) 3 hours each term.
Partial differentiation with applications. Stieltjes integral, multiple integrals, line and surface integrals, indeterminate forms, infinite series, improper integrals. Prerequisite: calculus. Fredrickson.
- (S) **St 421, 422, 423. Statistical Inference.** (G) 3 hours each term.
Prerequisite: Senior standing; Mth 100 or equivalent. Li.
- (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. Prerequisites: Mth 100 and junior standing, or consent of instructor. Wilson.

- (S) Mth 434, 435, 436. **Numerical Calculus.** (G) 3 hours each term.
Finite differences, interpolation, numerical differentiation and integration, numerical solution of differential equations, use of electronic digital computer. Prerequisite: differential equations.

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.
- (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. Albertson.
- (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. Albertson.
- (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.
- (U) MuE 534. **Music in the Junior High School.** 3 hours fall.
Theory, supervision, curriculum, materials, and procedures of vocal music teaching in the junior high school. Research in problems involving music and related areas of instruction. Nye, R.

Philosophy

LOWER-DIVISION

- (P) Phl 201. **Problems of Philosophy.** 3 hours fall.

An introduction to some of the persistent problems and great systems of philosophy through reading and discussion of selected source materials. Polonoff.

- (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. Polonoff.

- (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. Polonoff.

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. Newhall.

Physics

(SEE SCIENCE, PAGE 56)

Political Science

UPPER-DIVISION

- (U) PS 314, 315, 316. **Government of State, Local, and Regional Affairs.**

3 hours each term.

Analysis of the political organization and conduct of state, local, and regional affairs in the American federal system, with special reference to Oregon and the West. Dixon.

- (P) PS 320, 321. **World Politics.** 3 hours fall and winter.

Basic principles of the modern state system; analysis of factors making for conflict and cooperation. Emphasis, during second term, on the foreign policies of the leading states, exclusive of the United States. Mostofi.

- (P) PS 322. **American Diplomacy.** 3 hours spring.

Contemporary foreign relations of the United States; objectives, world and domestic factors affecting American foreign policy, governmental institutions concerned with development and execution of foreign policy, major issues and problems. Mostofi.

- (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. Leffland.

- (P) PS 414. **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: consent of instructor. Haggard.

(U) PS 433, 434. **Political Theory: The American Tradition.**

(G) 3 hours winter and spring.

The development of American political theories from early colonial days to the present. Haggard.

(U) PS 441. **Area Tensions in the World Today.** (G) 3 hours fall.

An examination in some detail of the historical, political, economic, and other causes of tension in one of the world's troubled areas. Analysis of current developments is followed by discussion of possible means of relaxing tensions. The focus of attention varies from year to year. In 1959 the course deals with Western Europe along the Iron Curtain. Prominent among the topics for consideration will be the question of German reunification, Franco-German relations, and the evolution of closer ties among the nations of Western Europe.

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. Prerequisites: 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. Prerequisites: 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. Prerequisites: Psy 201, 202, 203. Wilcox.

(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. Prerequisites: Psy 201, 202, 203. Smith.

(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. Prerequisites: 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. Prerequisites: Psy 201, 202, 203. Lyman.

- (S) **Psy 371. Quantitative Methods.** 3 hours winter.
Fundamentals of experimentation; design and conduct of experiments; analysis and interpretation of data; reporting of research in human behavior. Prepares for critical reading of literature of research in psychology, social science, business, education, and home economics. Not primarily computational. Prerequisites: Psy 201, 202.
- (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. Prerequisites: 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. Prerequisites: General Psychology and consent of instructor. Statistics course is desirable. Boyd.
- (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. Smith.
- (U) **Psy 450. Abnormal Psychology.** (g) 3 hours spring.
Various forms of unusual behavior, including anxiety states, hysteria, hypnotic phenomena, and psychoses. Normal motives and adjustment mechanisms as they are exaggerated in the so-called neurotic person. Smith.
- (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. Lyman.
- (U) **Psy 461. Developmental Psychology II: Adolescence and Maturity.** (g) 3 hours winter.
Continuation of Psy 460. Lyman.
- (U) **Psy 470. Animal Psychology.** (g) 2 hours spring.
Development, learning, motivation, emotion, and social processes in animals (rats, monkeys, chimpanzees); theories of animal behavior. Lyman.
- (U) **Psy 471. Laboratory in Animal Psychology.** (g) 1 hour spring.
(Laboratory students must be enrolled concurrently in Psy 470.) Lyman.
- (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.
- 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 and organizations. Wilson.
- (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.

Religion

NON-CREDIT

- (E) **R 36. The Old Testament, Its History and Impact.** Non-credit (2) fall.
A review of the history of the Old Testament, an analysis of the significant ideas that it contains, and its influence upon the development of Christianity and Talmudic Judaism. Special emphasis will be placed on the implications of the Dead Sea Scrolls. Various schools of Biblical criticism will be analyzed. Stampfer.

UPPER-DIVISION

- (S) **R 407. Seminar: Contemporary Religious Thought.** 3 hours fall.
An examination of the thought of representative contemporary theologians such as Niebuhr, Tillich, Buber, and Maritain with special emphasis on the relation of modern theology to contemporary art, literature, and culture. Prerequisite: consent of instructor. Hovland.
- (S) **R 461. Philosophy of Religion.** 3 hours winter.
Basic convictions underlying religious thinking; values, God, problem of good and evil, immortality, human nature, religious experience, Unsoeld.
- (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.

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.
- (P) SS 111. **Stenography (Briefhand)**. 3 hours winter.
Oliver.
- (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, manifold, 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 122, 123. Spring: SS 123.
- (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. Tassin.
- (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: Nethoy.
- (P) SS 215. **Office Practice**. (Machines). 3 hours fall or spring.
Use and operation of various office equipment and machines. Oliver.

UPPER-DIVISION

- (U) BEd 333. **Office Organization and Management**. 2 hours spring.
Elements of office organization, office management, office records and systems; special study of the office manager as an executive, and of his qualifications. Prerequisite: consent of instructor.
- (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 507. **Seminar: Briefhand**. 3 hours spring.
Briefhand, a simplified notetaking system, is based entirely upon the alphabet. It is interesting to teach and easy to learn. Speeds of 80-90 words per minute common at end of one college term or high school semester. Students taking this class will be qualified to teach Briefhand. Yerian.
- (S) BEd 537. **Measurements in Business Education**. 3 hours fall.
Objectives and principles of measurement in Business Education; testing in specific areas; construction of sample tests; evaluation of available testing materials; use of tests in diagnostic and remedial teaching. Prerequisite: Ed 408 or teaching experience in business subjects. Larse.
- (S) BEd 541. **Current Practices in Typewriting**. 3 hours winter.
Principles underlying the development of typing skills; motivation; supplementary materials, and special devices. Prerequisite: Ed 408 or teaching experience in typing. Winger.

Science

Applied Science

UPPER-DIVISION

- (P) ASc 321, 322, 323. **Energy Sources and Systems.** 3 hours each term.

Study of energy; sources and utilization; basic laws of thermo-dynamics; thermodynamic processes and cycles; heat power systems; internal combustion engines, nuclear power plants, etc. Prerequisites: Ph 209 or equivalent, Mth 203.

Biology

LOWER-DIVISION

- (P) Bi 231, 232, 233. **Human Anatomy and Physiology.** 3 hours each term.

An introduction to the study of structure and function of the human body. This course is designed to help the student understand normal structure and functions and give him the knowledge with which he may establish good health practices for himself and also be prepared for giving instruction in biology in the public schools. The subject matter includes the cellular and tissue study of the body systems and their specific functions. Instruction places emphasis on understanding of the body adaptations for reacting and adjusting the whole individual to his environment. This course is not designed for majors in biology. Prerequisite: one year of a biological science. Two lectures and one 3-hour laboratory. Payne.

UPPER-DIVISION

- (U) Bi 464, 465, 466. **Principles of Ecology.** (G) 4 hours each term.

Fall: general principles, with illustrations in the field; winter: population theory; spring: communities and ecosystem structure and energetics. Prerequisite: general chemistry, college algebra. Macnab.

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, Sanford.

UPPER-DIVISION

- (P) Ch 440, 441, 442. **Physical Chemistry.** 4 hours each term.

The study of gases, liquids and solids; chemical thermodynamics; solutions; equilibria; electrochemistry; kinetics; atomic and molecular structure; radio-chemistry and photochemistry. Three lectures; one 4-hour laboratory period. Prerequisite: Ch 232 and 233 or Ch 234; Mth 203 or consent of instructor.

- (S) Ch 450, 451, 452. **Biochemistry.** (g) 3 hours each term.

Fall: carbohydrates, proteins, and fats of importance in biological systems. Winter: vitamins and enzymes. Spring: metabolism. Prerequisite: organic chemistry.

General Science

LOWER-DIVISION

- (P) GS 101, 102, 103. **Biological Science Survey.** 3 hours each term.

The fundamental principles of life as they apply to both plants and animals. For general students and those majoring in fields other than biology. Two lectures; one 3-hour laboratory period. Winchell.

- (P) GS 104, 105, 106. **Physical Science Survey.** 3 hours each term.

Fundamental principles of physics, chemistry, astronomy, and geology; development and application of the scientific method. For students majoring in fields other than the physical sciences who wish a broad view of the principles of several physical sciences. Two lectures; one 3-hour laboratory-recitation period. Lange.

- (P) GS 207, 208, 209. **General Astronomy.** 3 hours each term.

Descriptive treatment. Coordinate system; astronomical instruments; the solar system; star types and groupings. One recitation; two 2-hour laboratory periods.

UPPER-DIVISION

- (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. Prerequisites: upper division standing and a year sequence in general biology. Hopson.

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.

- (P) G 204, 205, 206. **Geology Laboratory.** 1 hour each term.

Laboratory and field work to accompany G 201, 202, 203 for all students desiring practical knowledge of geology. One 3-hour laboratory period. Hopson.

UPPER-DIVISION

- (P) G 315, 316, 317. **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. Two lectures; two 3-hour periods. 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.

- (S) G 350. **Rocks and Minerals.** 3 hours spring.

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.

- (S) G 352. **Geology of Oregon.** 3 hours winter.

Origin and geologic history of landscape features of Oregon; for students without prior geologic background. Hopson.

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.

- (U) Soc 421. **Social Change.** (G) 3 hours spring.
Sociological analysis of purposive social change as manifest in various programs of social reform and reconstruction. Doctrines examined in relation to the contexts, historical and contemporary, out of which they emerged and have evolved. Prerequisite: 9 hours in sociology or consent of instructor. Jolly.
- (U) Soc 435. **Theory and Methods of Population Analysis.** (G) 3 hours fall.
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 436. **Social Control.** (G) 3 hours winter.
Techniques and agencies by which the behavior of crowds, classes, associations, and publics is controlled. Prerequisite: Soc or Psy 334, 335 or consent of instructor. Jolly.
- (U) Soc 440. **Group Dynamics.** (G) 3 hours fall.
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. Jolly.

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

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.** 3 hours winter.
Speech projects designed to improve general speech personality and communication, and to develop better voice and diction. 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 procedures; 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.

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. Prerequisites: Sp 370, 371, or consent of instructor. (Course must be taken in sequence; Sp 483 is available each term for students who have completed Sp 481, 482). Lillywhite and staff.
- (U) Sp 484, 485, 486. **Clinical Speech Therapy.** (G) 2 hours each term.
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, or consent of instructor. 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. Blakeley.

- (C) Sp 493. **Principles and Techniques of Speech Correction.** (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 system. Not offered at Portland Center.)

GRADUATE

- (U) Sp 507. **Seminar and Practicum in Language Development and Language Disorders.** 3 hours fall.

Designed for persons who have had considerable training and experience in speech correction and remedial reading. Intensive study of normal language levels. Methods of evaluation and treatment of language disorders, including both verbal and written language. Course includes approximately twenty hours of supervised clinical practice with children with language disorders. Course enrollment limited to twelve. Consent of the instructor required. Lillywhite.

- (U) Sp 507. **Seminar and Practicum in Cleft Palate.** 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 Cleft Palate. Course includes about twenty clock hours of supervised clinical practice with Cleft Palate patients. Consent of instructor required, Blakeley.

Drama

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, Ore.

LOWER-DIVISION

- (P) TA 111, 112, 113. **Fundamentals of Acting Techniques.** 2 hours each term.

The study of the actor in relation to his role; his relation to the play; analysis of the bases of characterization; styles of acting; and make-up. A three-hour laboratory each week is required, laboratory hours to be arranged. This is a sequence course, with the prior term a prerequisite for the following term.

- (P) TA 211, 212, 213. **Introduction to Theater Principles.** 3 hours each term.

Development of the physical theater and the mechanics of its stage and shops; planning and construction of stage settings and properties; basic principles of stage lighting and costuming. Laboratory sessions required; practical experience in the construction, painting, and handling of scenery and lighting of plays.

- (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.

UPPER-DIVISION

- (U) Sp 364. **Play Direction.** 3 hours fall.
Sources of dramatic material, choice of play, casting and rehearsal of players, production organization. Practical experience in directing. Six or more laboratory periods.
- (U) Sp 365. **Direction of Children's Theatre.** 3 hours winter.
History and objectives of theatre for the child audience; survey of existing professional and community children's theatre programs; study of the techniques of acting, directing and producing plays for and by children. Prerequisite: Sp 364.
- (U) Sp 366. **Advanced Play Direction.** 3 hours spring.
Advanced practice in direction of plays for public performance. Prerequisite: 364 and consent of instructor.

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. Williams.
- (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. Williams.

UPPER-DIVISION

- (U) Sp 445. **Radio-Television Production.** (G) 3 hours winter.
Problems and procedures in the synthesis of talent, material, sponsorship, etc. in broadcast production. Programming broadcast schedules. Consent of instructor. Williams.
- (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. Consent of instructor. Williams.

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. (1952), 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.
- E. DEAN ANDERSON, Ed.D., Professor of Education, Portland State College and Portland Extension Center.
B.A. (1936), Reed; M.A. (1941), Oregon; Ed.D. (1954), Oregon State.
- GERALD F. ANDERSON, Ph.D., Instructor in Foreign Languages, University of Oregon.
A.B. (1950), Bates; M.A. (1951), New Hampshire; Ph.D. (1957), Madrid.
- PETER ANTON, M.A., Instructor in Philosophy, Oregon State College.
A.B. (1952), M.A. (1954), Indiana.
- JAMES G. ASHBAUGH, M.A., Instructor in Geography, Portland State College and Portland Extension Center.
B.A. (1950), Central Washington College; M.A. (1953), Colorado.
- LESTER F. BECK, Ph.D., Professor of Psychology, Portland Extension Center and Portland State College.
B.A. (1930), M.A. (1931), Oregon; Ph.D. (1933), Brown University.
- HUGO BEKKER, B.A., Assistant Professor of Germanic Languages, University of Oregon.
B.A. (1957), Milton.
- KEITH A. BELL, M.Ed., Psychometrist; Instructor in Educational Psychology, Portland State College.
B.A. (1941), Whitworth College; M.E. (1951), Oregon.
- 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.
- ROBERT W. BERGSTROM, Ed.D., Professor; Chairman of Professional Physical Education, Oregon State College.
B.S. (1937), Oregon State; M.A. (1942), Ed.D. (1947), Columbia.
- 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 PHYLLIS BLACK, Ph.D., Librarian; Associate Professor of History, General Extension Division.
B.A. (1924), Mount Holyoke; M.A. (1925), Ph.D. (1928), Michigan; B.S. in L.S. (1932), Washington.
- ROBERT W. BLAKELEY, 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.S., Instructor in Economics, Portland State College.
B.S. (1950), M.S. (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.
- RALPH L. BOYD, Ph.D., C.P.A., Professor of Business Administration, Portland Extension Center and Portland State College.
B.Ed. (1930), Illinois State Normal; M.S. (1932), Ph.D. (1942), Illinois; C.P.A. (1933), Illinois, (1945), Ohio.
- 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., Assistant 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 Child Guidance Clinic, Oregon College of Education.
B.S. (1932), M.A. (1936), Ph.D. (1952), Minnesota.
- CLARKE H. BROOKE, JR., Ph.D., Assistant Professor of Geography, Portland State College.
B.A. (1942), M.A. (1950), Washington; Ph.D. (1956), Nebraska.
- JAMES E. BROOKS, Ph.D., Assistant Professor of Geography, Portland State College.
B.A. (1950), Central Washington College; M.A. (1952), Ph.D. (1957), University of Washington.
- JACK W. BURGNER, M.A., Assistant Professor of Art, University of Oregon.
B.S. in Ed. (1948), Eastern Illinois State; M.A. (1949), Colorado State College of Education.
- ORIN K. BURRELL, M.A., C.P.A., Professor of Business Administration, University of Oregon.
B.S. (1921), M.A. (1927), Iowa; C.P.A. (1928), State of Oregon.
- KENNETH W. BUTLER, B.A., Instructor in Library Science; Reference and Audio-Visual Librarian, General Extension Division.
A.L.A. (1948), Leeds School of Librarianship; B.A. (1953), University of Portland.
- J. RICHARD BYRNE, Ph.D., Assistant 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.
- ROBERT CAMPBELL, Ph.D., Assistant Professor of Economics, University of Oregon.
A.B. (1947), Ph.D. (1952), California; B.S. (1950), U.S. Merchant Marine Academy.
- GERALD O. CANNON, Ed.D., Assistant Professor of Trade and Industrial Education, Oregon State College.
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- LOUIS BUNCE, Instructor in Painting, Museum Art School.
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- CLIFFORD W. WILLIAMS, Supervisor, Gifted Child Program, Portland Public Schools.
- THOMAS G. WILLIAMS, B.A., C.P.A.
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General Extension Division

The General Extension Division is interinstitutional in character. It is the extension arm of all state-supported campuses contained within the integrated State System of Higher Education. This state-wide form of extension is unusual among the various states. It is considered an ideal by educators throughout the nation.

The full effectiveness of Oregon's General Extension Division can be seen as based on the vast resources of not only one institution of higher education, but on many. Financially, however, the Division is considerably self-sufficient, earning much of its way through collection of authorized fees for the services it provides. Information on some of its departments and activities follows.

Headquarters office for General Extension Division is at 1633 S. W. Park Ave., Portland 1, Ore.

Administration and Staff

JAMES W. SHERBURNE, Ph.D., Dean.

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

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ROBERT P. VAN WAGNER, M.A., Assistant Registrar.

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*LESLIE B. NEWHOUSE, M.B.A., Business Manager.

ROBERT L. MERRICK, B.S., Assistant Business Manager.

JEAN P. BLACK, Ph.D., Librarian.

DEPARTMENTS AND ACTIVITIES

Portland Extension Center

An evening class activity, Portland Extension Center uses principally the buildings of Portland State College for both undergraduate and graduate study. Present enrollments at the Center approximate 6,000 students in all categories. All courses taken for college credit at the Center originate at one or another of the state system campus institutions, and instructors are in most instances members of a campus faculty.

No degrees are granted by the Center itself; instead, the student chooses the state-system campus institution from which he wishes to receive his degree, and works out, with this campus institution, the Center's evening courses which may be applied toward the degree.

An expanding program of non-credit activities is offered, as well, for students not primarily interested in academic degrees.

Administration and Staff

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CLARK SPURLOCK, D.Ed., Assistant Director.

† Resignation June 30, 1959.

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TESS M. WILLIAMS, M.S., Coordinator, Educational Radio and Television.
RICHARD O. MARTIN, M.A., Director, Information Services.
MARIE E. BROWN, Secretary.

Portland Summer Session

Under the same administration as the evening center, Portland Summer Session is principally a daytime program generally operating from June through August. Enrollments in recent sessions exceed 3,000 and statistics show it is the state's best-attended summer session. A full program of undergraduate and graduate courses is offered and special workshops for teachers and education administrators are provided.

Department of State-Wide Services

These services consist of the state-wide evening classes, correspondence study courses, conferences, workshops, and consultant services to business, industry, education, and other activities. Any community in Oregon may become a meeting place for state-wide evening classes if a satisfactory facility is provided and sufficient enrollment is guaranteed to cover actual operating costs. For convenience of Oregonians, state-wide offices are maintained on campuses in Salem, Eugene, Corvallis, Monmouth, Ashland and La Grande. Contacts at any of these offices will receive prompt attention.

Administration and Staff

VIRON A. MOORE, Ed.D., Director.
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DONALD S. BRYANT, M.A., Head, Northwest Region.
CHARLES IVIE, M.A., Head, Eastern Region.
RAYMOND E. PETTEY, B.S., Head, Southern Region.

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.

Administration and Staff

JAMES M. MORRIS, Ed.D., Director, Program Manager.
ROBERT C. HINZ, B.A., Assistant Program Manager, News Editor.
CHARLES CALLACI, M.A., Producer-Director.
TESS M. WILLIAMS, M.S., Portland Consultant.
ROBERT M. ROBERTS, B.A., Producer-Announcer.
WILLIAM F. McGRATH, M.A., Production Supervisor.
ROBERT RICHTER, B.A., Salem Consultant.
JOHN MacKENZIE, B.S., Producer-Announcer.
JOHN MacDONALD, B.A., Producer-Announcer.
PHILIP B. KALAR, Mus.B., Music Director.
GLADYS D. CHAMBERS, B.A., Women's Programs.
ELIZABETH PATAPOFF, B.A., School Programs.

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 pictures and a small selection of color slides and filmstrips are available on a rental basis. A catalog of the selections 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., Director.

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*LAURENCE BUTLER, M.A., Regional Director, Ashland.

CHESTER C. SQUIRE, M.A., Acting Regional Director, Ashland.

WILLIAM P. WELLS, M.A., Regional Director, La Grande.

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.

* On leave, 1958-59.

Oregon State System of Higher Education

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Dean, General Extension Division

AUGUST L. STRAND, Ph.D., LL.D.
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HAROLD J. NOYES, D.D.S., M.D.
Dean, Dental School

ROY E. LIEUALLAN, Ed.D.
President, Oregon College of Education

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EARL M. PALLETT, Ph.D.....Chairman
High School-College Relations Committee

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WILLIAM J. KERR, D.Sc., LL.D..... 1932-1935

FREDERICK M. HUNTER, E.D., LL.D..... 1935-1946

PAUL C. PACKER, Ph.D., LL.D..... 1946-1950

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