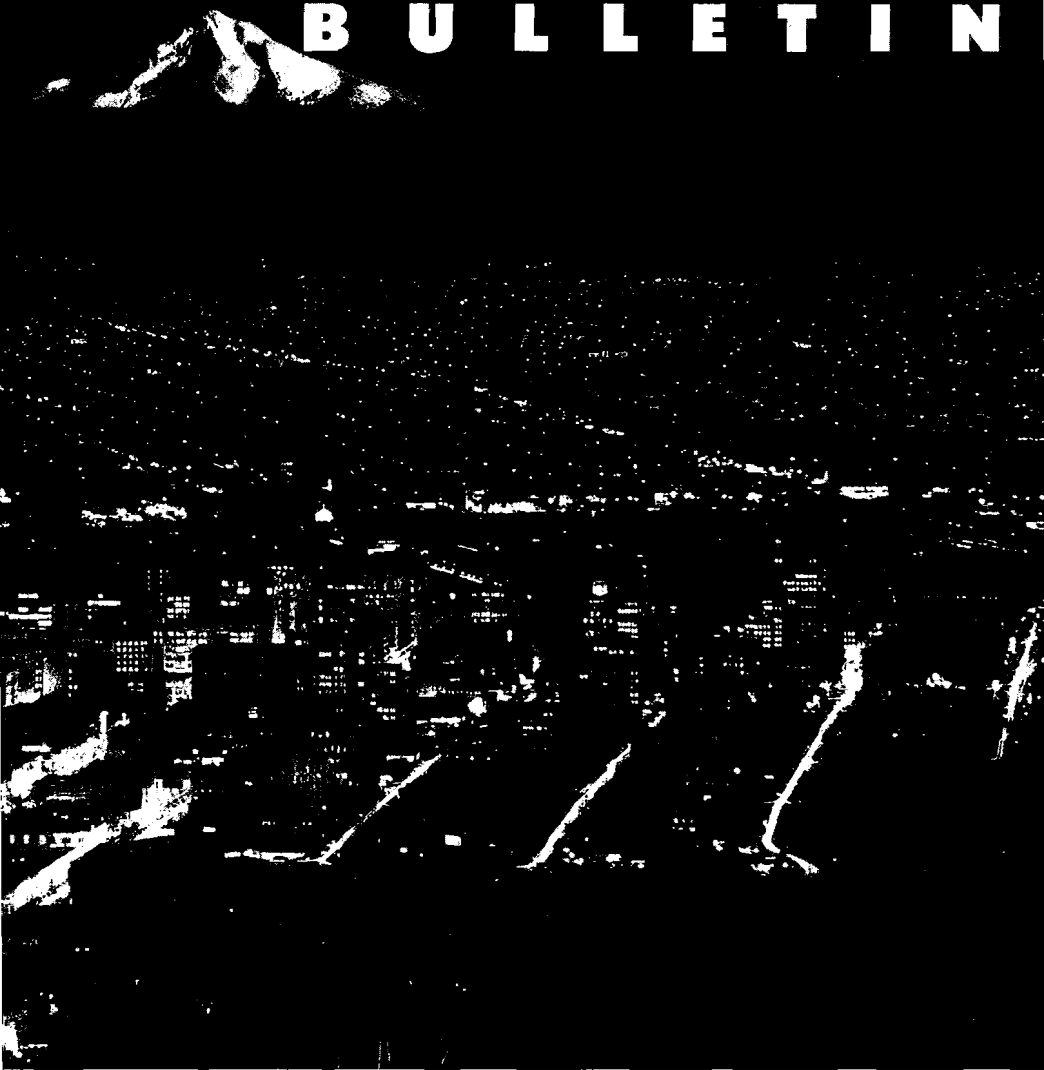


1961-62
PORTLAND CENTER
GENERAL EXTENSION DIVISION
B U L L E T I N



EVENING CLASS CATALOG

... Fall, 1961

SEPTEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
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OCTOBER

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NOVEMBER

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DECEMBER

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Winter, 1961-62 ...

JANUARY

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MARCH

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APRIL

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29	30					

... Spring, 1962

MAY

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JUNE

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JULY

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AUGUST

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26	27	28	29	30	31	

General Extension Division

BULLETIN

Oregon State System of Higher Education

1633 S.W. Park Ave.

Portland 1, Ore.



PORTLAND SERIES NO. 104

MAY 20, 1961

Entered as second-class matter April 15, 1958, at the Post Office at Portland, Ore., under act of Aug. 24, 1912. Published 17 times a year: March 9, 10, 12, 15, 20; April 10; May 20; June 6; July 10; Aug. 28; Sept. 10, 12; Oct. 20; Dec. 10, 12, 15, 17, by the General Extension Division, State Board of Higher Education, Portland, Ore.

RETURN POSTAGE GUARANTEED

**GENERAL EXTENSION
DIVISION**

BULLETIN

**Portland Center
Evening Classes
1961-62**

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

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



**OREGON STATE SYSTEM
OF HIGHER EDUCATION**

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Oregon State System of Higher Education

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

The institutions of the state system of higher education are Oregon State University at Corvallis, the University of Oregon at Eugene, Portland State College at Portland, Oregon College of Education at Monmouth, Southern Oregon College at Ashland, Eastern Oregon College at La Grande, and Oregon Technical Institute at Klamath Falls. The University of Oregon Medical School and the University of Oregon Dental School are located in Portland. The General Extension Division, representing all the institutions, has headquarters in Portland and offices in Ashland, Corvallis, Eugene, La Grande, Monmouth and Salem.

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

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

At the University of Oregon and Oregon State University, major curricula, both liberal and professional, are grouped on either campus in accordance with the distinctive functions of the respective institutions in the unified state system of higher education.

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

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

State Board of Higher Education*

	Term Expires
A. S. GRANT, Baker.....	1962
CHERYL S. MACNAUGHTON, Portland.....	1963
J. W. FORRESTER, JR., Pendleton.....	1963
ALLAN HART, Portland.....	1964
DOUGLAS MCKEAN, Beaverton.....	1964
WILLIAM E. WALSH, Coos Bay.....	1965
RALPH E. PURVINE, Salem.....	1965
JOHN MERRIFIELD, Portland.....	1966
CHARLES R. HOLLOWAY, JR., Portland.....	1967

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CHARLES R. HOLLOWAY, JR.....	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.

† Resignation effective October 31, 1961.

Academic Calendar, 1961-62

FALL TERM 1961

*Student Advising.....	September 18
Registration begins.....	September 5
Classes begin.....	September 25
Late fee begins.....	October 2
Last day to register or add a course.....	October 9
Last day to drop course without responsibility for grades..... (Noon)	November 4
Thanksgiving vacation.....	November 23-26
Final examinations.....	December 11-16
Term ends.....	December 16

WINTER TERM 1962

*Student advising.....	December 26-January 5 (1962)
Registration begins.....	December 11
Classes begin.....	January 2
Late fee begins.....	January 9
Last day to register or add a course.....	January 15
Last day to drop a course without responsibility for grades..... (noon)	February 12
Final examinations.....	March 12-17
Term ends.....	March 17

SPRING TERM 1962

*Student Advising.....	March 19-30
Registration begins.....	March 12
Classes begin.....	March 26
Late fee begins.....	April 2
Last day to register or add a course..... (noon)	April 7
Last day to drop a course without responsibility for grades.....	May 5
Memorial Day—Holiday.....	May 30
Final examination.....	June 4-9
Term ends.....	June 9

SUMMER TERM 1962

*Student Advising.....	June 11-22
Registration.....	June 18
Classes begin.....	June 18
Last day to enter class without instructor's signature.....	June 20
Late fee begins. Last day to change program without change-of-program fee.....	June 21
Last day to register or to make program changes.....	June 25
Last day to withdraw without responsibility for grades.....	June 25
Independence Day—Holiday.....	July 4
Final examinations.....	August 9-10
Summer term ends.....	August 10

* Advisers are available on 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.

Portland Center

General Information

Portland Center of the General Extension Division marks its 44th academic year of extending the resources of the State System of Higher Education to students in the Portland metropolitan area. This service is maintained in evening classes during the regular academic year and in predominantly daytime classes during Portland Center's Summer Term (for which a separate catalog is published).

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

Location: Portland Center and Portland State College face S. W. Park Avenue between Market and Harrison Streets, near downtown Portland. However, various classes and special programs are scheduled at other locations. Portland Center's administrative offices, to which mail normally should be addressed, are at 1633 S.W. Park Avenue, Zone 1. Telephone number is CApitol 6-6601.

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

Undergraduate Work

Admission as an Undergraduate: Portland Center itself does not confer degrees; therefore, the student wishing credits earned at the Center to apply toward a degree must inform himself of the degree-program requirements of the institution from which he expects to receive his degree.

Information concerning admission, advanced standing, credit transfer, residence, and graduate requirements should be obtained from the Registrar of the degree-granting institution, whether within the Oregon State System of Higher Education or elsewhere.

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

Graduate Work

Certain masters' degrees granted by various institutions within Oregon State System of Higher Education as well as work toward these degrees which may be completed at Portland Center are shown below:

Master of Education: Degree may be taken either at University of Oregon or at Oregon State University.

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

Oregon State University has a 12-hour residence requirement. This requirement must be met by attendance on OSU campus proper.

At both institutions, this degree is regarded as professional teaching degree and not necessarily as research degree; however, at 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 University neither thesis nor field study is required under Options "C" or "B."

For the degree with either of these Oregon institutions a well-integrated program embraces: (1) common core of required courses; (2) area of concentration which provides complex of courses organized to meet special interests and needs of student.

At University of Oregon, both qualifying and final examinations are written. Oregon State University requires either oral or written final examinations, but no qualifying examination. Graduate work for degree of Master of Education may be pursued with specialization in either elementary or secondary fields.

Master of Science in Education (from Oregon College of Education in Monmouth, or from either of the State System regional colleges in Ashland and La Grande) :

Oregon College of Education requires 33 hours of credit in residence. Requirement may be met by attending Portland Center Summer term, and one Summer session on Monmouth campus.

Eastern Oregon College and Southern Oregon will accept maximum of 15 hours of course work completed in Portland Center, Summer term.

Thesis is optional with each student, but it is recommended for those planning further graduate work. Qualifying examination is written, and 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 offerings of several major departments are correlated. Thesis is required. Before 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 University may be completed in Portland, but the University of Oregon requires that candidates earn at least 33 hours in residence on the Eugene campus.

Master of Arts (Departmental), Master of Science, Master of Science in General Studies: Programs for these degrees must be arranged with 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.

Master of Business Administration: Effective with fall term, 1961, programs leading to the Master of Business administration at University of Oregon will be offered in Portland. Students working toward this degree may complete up to 36 credit hours in Portland through courses taught by regular University of Oregon School of Business Administration faculty. Students fulfilling residence requirements at Portland Center will be required to write a thesis for the MBA degree.

Master of Science in Health, Physical Education and Recreation: Effective with fall term, 1961, programs permitting up to 18 credit hours toward the Master of Science in Health, Physical Education and Recreation at University of Oregon will be offered in Portland. However, 12 credit hours of residence at Eugene campus will be required by School of Health, Physical Education and Recreation.

OSU courses in these areas are also available and can be used as majors on the M.Ed. degree.

Master of Education in Library Science: Effective with fall term, 1961, sequent program leading to Master of Education at University of Oregon will be offered in Portland. Heavy specialization in library will be required. Mrs. Ione Pierron, assistant professor of librarianship, School of Education, University of Oregon, will serve as major adviser for those enrolled at Portland Center.

Service and Community Programs

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

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

Teacher Training

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

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

In-Service Institute in Mathematics for Secondary School Teachers: Conducted under grant from National Science Foundation to General Extension Division, Portland In-Service Institute in Mathematics for Secondary School Teachers has been scheduled for Tuesday evenings, starting in October and running full 1961-62 academic year. It will be directed by Dr. J. Richard Byrne, assisted by Dr. Robert W. Rempfer. Grant will cover text, tuition and travel expenses for enrollees.

Program in Nursery School Education: An option under the **Master of Arts in General Studies** degree with Oregon State University 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 University.

Program for Registered Nurses: A program leading to the **Master of Arts in General Studies** degree, designed specifically to meet the requirements of regis-

tered nurses, is offered in cooperation with the School of Nursing, University of Oregon Medical School, and with the Graduate School, Oregon State University.

Professional Degrees in Engineering: The degree of Agricultural Engineer, Mechanical 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 University 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 University 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.

Qualified candidates for the M.S. degree in electrical, mechanical, civil, or industrial engineering from Oregon State University may complete all graduate course-work at Portland Center.

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

For additional details and application instructions for the degree of engineer, consult the Oregon State University 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 Center to assist students in planning programs and in establishing candidacy for the degrees. Students should note that mere accumulation of graduate credit does not establish candidacy for any degree.

Admission: Graduate students who wish to apply their Oregon credits toward advanced degrees at one of the institutions within the Oregon State System of Higher Education must make application for admission to the graduate school selected and take 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 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.

Training in Pre-School Education: Although Portland 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 University) 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 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 Portland Center.

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

Counseling and Guidance Training Institutes: Portland Center will conduct a year-long Counseling and Guidance Training Institute for secondary school teachers, September 18, 1961, to June 8, 1962. The Portland Institute, with others throughout the nation, will be conducted under contract with the United States Office of Education and is financed by congressional appropriation under the National Defense Education Act of 1958.

Enrollees selected will receive weekly stipends of \$75, and \$15 a week for each dependent. A total of 30 enrollees will be selected, from an area including northern California, Nevada, southwestern Idaho, Alaska, and Oregon. High school teachers who have not previously been assigned to counseling and guidance duties will receive preference for admission.

Application should be made to Dr. Harold Bernard, Director, Counseling Guidance Institute, Portland Center, 1633 S.W. Park Ave., Portland 1, Ore.

Cooperative and Certificate Programs

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

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

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

Cooperative Speech and Hearing Rehabilitation Center: Portland Center cooperates with the Crippled Children's Division of the University of Oregon Medical School in a program designed to prepare teachers to teach speech-handicapped children, and for the expansion of services to children with speech defects. This facility is housed at the Crippled Children's Division of the University of Oregon Medical School in Portland.

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

Portland Civic Theatre: A cooperative program of credit courses in drama is sponsored jointly by Portland Center and the Portland Civic Theater. Some of the classes meet at the Civic Theater. These classes are open to all qualified students. The Portland Civic Theater 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 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 Center must receive requests for in-service and other credit courses to be offered in public schools at least 90 days in advance of the expected beginning date.

Registration Procedures and Regulations

Students who have not enrolled during the early registration period, either in person or by mail, may register for Portland Center classes any evening during the first week of each term in accordance with the dates shown in the **Academic Calendar** (see page 6). The exact location of evening registration will be designated in the Class Schedule published in advance of each term.

Late registrations by mail will not be accepted. Students may not register for credit during the second week if the class has met during that week.

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 Center, 1734 S.W. Park Ave., Portland 1, Ore., or telephone CApitol 6-6601. **Late registration by mail will not be accepted.**

Procedure for Graduate Students: Enrollment for graduate credit is in general identical with enrollment for undergraduate credit. However, **students electing graduate credit in a 400 (G) or (g) course** (see course numbering system, page 16) **must so indicate at the time of registration for the course;** otherwise graduate credit cannot be granted. Graduate credit is not retroactively granted.

Portland Center Fees

Fee Schedule

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

<i>Item</i>	<i>Per term</i>
Per credit hour rate.....	\$11.00
Minimum charge for 1 or 2 credit hours for any student, or for any class.....	22.00
Charge for students enrolled for 7 credit hours or more.....	90.00
Laboratory or course fees are charged in some cases, as indicated in the course descriptions.	
Combined enrollment in Portland Center and Portland State Col- lege: Students carrying 7 credit hours or more in Portland Center, Portland State College, or any combination are consid- ered to be full-time students and pay a total flat fee of \$90.*	

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

Special Fees and Charges

Late registration fee (includes auditors), per week (\$3.00 during second week of each term; additional \$1.00 for each week thereafter) (if delayed registration is accepted).....	\$3.00-1.00
If payment of fees is met by a check which is returned because of any irregularity for which the student is responsible (NSF, illegible signature, improper bank account number, etc.) a fine of \$1.00 per business day will be charged. (Maximum penalty, \$5.00).....	\$ 1.00
Change of program fee (assessable after last day to add courses)	\$1.00
Reinstatement fee	\$ 2.00
Transcript fee (charge for first copy at any one time is \$1.00 and charge for each additional copy furnished simultaneously is 50c)	\$.50- 1.00
Graduate qualifying examination fee.....	\$1.00-15.00
Counseling and testing service fee.....	\$ 5.00
Staff fee, per credit hour (including staff auditors).....	\$ 3.00
(Available only to full-time employees, academic and non- academic, of not only the General Extension Division but of any unit of the Higher Educational System, upon approval of institutional executive. Maximum of five credits per quarter. In accordance with Administrative Code, Section L-3.K(1)- (c), applicable to privileges of academic staff: "Upon ap- proval of the president or executive head, all full-time staff members may register for a limited amount of work for credit in any term, generally for not more than three term hours of credit. As many as five term hours shall be permitted, provid- ing registration is for not more than one course." Subject to approval of the Dean's Office, all fees and maximum credit- hour limitations may be waived for retired employees; and for staff members on leave, the maximum credit-hour limitation may be waived but the fee is not waived.)	

Fee Refunds

Students who withdraw and who have complied with regulations governing withdrawals are entitled to certain refunds of fees paid, depending on the time of

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

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 cases 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.

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

The library is open from 7:30 a.m. to 9:00 p.m. Monday through Friday when

classes are in session, and 7:30 a.m. to 4:30 p.m. between sessions. The library will be open Saturdays, mornings and afternoons.

General Services

Counseling Center for Adults: Professional counseling services are available to all regularly-registered evening and summer students, and to others on referral from cooperating schools and agencies. Information may be obtained at the Center's offices on the second floor of the General Extension Division building, 1633 S.W. Park Ave., Portland. Telephone Capitol 6-6601, extension 438.

Publications: The *Night-Owl*, a tabloid publication, is distributed to all Portland Center faculty and students during the academic year. The *Summer Signal* is published during Summer Term.

Special Events: Portland Center students are eligible to attend all special events, whether sponsored by Portland State College or by the Center. Lectures, concerts, plays, forums, and other activities are scheduled regularly, many with no admission charge.

College Center: The College Center is located on the corner of S.W. Montgomery St. and Park Ave. Every regularly-registered evening or summer student may use the varied facilities offered in the College Center and may participate in the social and activity programs.

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

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

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

1961-62 Portland Center Program

Course Numbering System. The courses in this catalog are numbered in accordance with the course-numbering system of the Oregon State System of Higher Education. Lower-division (freshman and sophomore) courses are numbered below 300. Upper-division (junior and senior) courses are numbered from 300 to 499. Graduate courses are numbered 500 to 599. A large (G) following the title of a 400 course indicates that the course may be taken for either major or minor graduate credit. A small (g) following the title of a 400 course indicates that the course is approved for graduate minor credit only. A number less than 50 indicates a non-credit course. The originating institution is indicated after each title: (OSU), Oregon State University; (UO), University of Oregon; (PSC), Portland State College; (OCE), Oregon College of Education.

Class Schedule. A class schedule detailing the course meeting times and places and the instructors for each class is issued shortly before each term. Classes meet one evening a week, at the following hours, unless otherwise noted in the class schedule: Two-hour classes, 6:45-8:40 p.m.; three-hour classes, 6:45-9:30 p.m., and four-hour classes two nights a week, 6:45-8:40 p.m. Deviations from this plan will be noted in the class schedule for each term.

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

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

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

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

Non-Credit Courses. A limited number of courses, designated "non-credit" in the course descriptions, are offered from time to time. Completion of such courses does not reduce the total of hours required in degree programs.

A Grade Point is a numerical expression of the qualitative value of a student's work. Grade points are calculated on the basis of 4 points for each hour of **A** grade; 3 for **B**; 2 for **C**; 1 for **D**, and 0 for **F**. Marks of **Inc** and **W** are disregarded in calculation of points.

Grade-Point Average (GPA) is determined by dividing the total grade points earned by the total number of hours for which the student has been registered. Non-credit courses are not considered in computing the grade-point average.

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

Description of Courses

Art and Art Education

Art

- AA 195, 196, 197. **Basic Design.** 2 hours each term. (PSC)
A three-term introductory sequence; a series of studio participation exercises involving the basic principles of design.
- AA 223. **Elements of Interior Design.** 2 hours winter. (PSC)
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.
- AA 255. **Ceramics.** 2 hours winter or spring. (PSC)
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.
- AA 257. **Jewelry and Metalsmithing.** 2 hours fall. (PSC)
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.
- AA 290. **Painting.** 2 hours any term. (PSC)
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.
- AA 291. **Drawing.** 2 hours any term. (PSC)
Training in observation and selection of significant elements. Registration permitted any term, but it is desirable that the work be started in the fall.
- AA 311, 312, 313. **Creative Arts and Crafts for the Classroom Teacher.** 3 hours each term. (PSC)
Art activities for the classroom teacher. Basic tools and materials. Planning the art program to meet the needs of the child. Art in the school curriculum. Art experiences in relation to child growth and development. Lectures and laboratory work. Prerequisite for AA 313 are AA 311 and 312.
- AA 363, 364, 365. **Introduction to the History of Art.** 3 hours each term. (PSC)
An historical survey of the visual arts. Selected works of painting, sculpture, architecture and other arts are studied in relation to the culture producing them.

Classes at Museum Art School

The following classes are offered in cooperation with the Museum Art School. The registration fee is \$22.00 per term for each class, plus a special course fee as indicated for some of the courses. (However, in no case will students registering for work in the Museum Art School and Portland State College or Portland Center pay more than \$90.00). Students register at the Museum Art School, S. W. Park Ave. at Madison St., where the classes are held.

- AA 22. **Fashion Drawing.** (non-credit) (2) hours each term. (GED)
Thursday. Moore. 7:30-9:30.

- AA 42. Introduction to Art.** (non-credit) (2) hours each term. (GED)
Omnibus experience in using various art media. Fall: Drawing, figure drawing, and design; winter: composition, life drawing, and ceramics; spring: paintings and sculpture.
- AA 195, 196, 197. Basic Design.** 2 hours each term. (PSC)
A three-term introductory sequence; series of studio participation exercises involving the basic principles of design. Monday. 7:30-9:30. Yezerski.
- AA 217. Lettering.** 1 hour any term. (PSC)
Lettering, including a study of historic styles such as Roman, Gothic, Old English, as well as the modern decorative, manuscript, and poster types. Section I: Monday, Reynolds. Section II: Tuesday, Ferris. Section III: Thursday, Reynolds. 7:30-9:30.
- AA 255. Ceramics.** 2 hours any term. (PSC)
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. Course fee of \$4.00 in addition to registration fee. Section I: Monday, Welsh; Section II: Tuesday, Jolliver; Section III, Wednesday, Welsh. Kennedy and staff. 7:30-9:30.
- AA 290. Painting.** 2 hours any term. (PSC)
Instruction in the use of oil color, water color, and other media. 12 term hours required for upper division standing. Section I: Tuesday, Johnson; Section II: Wednesday, McLarty. Section III: Thursday, Bunce. 7:30-9:30.
- AA 291. Drawing.** 2 hours any term. (PSC)
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, McLarty. (Figure drawing class using the human form as model). Section II: Wednesday, staff. (Figure drawing class using the human form as model). Section III: Thursday, Izquierdo. (Studied observation of many kinds of objects and stress upon careful delineation. All media will be explored.) 7:30-9:30.
- AA 293. Elementary Sculpture.** 2 hours any term. (PSC)
Introduction to materials. Elementary consideration of forms; technical and compositional exercises in clay and plaster. Course fee \$4.00 in addition to registration fee. Section I: Tuesday, Littman, Section II: Thursday, Littman. 7:30-9:30.
- AA 295. Display Design.** 2 hours any term. (PSC)
Practical design experience in commercial art lettering, layouts, packaging, and display advertising. Prerequisite: previous training. Wednesday, 7:30-7:30. Lynch.
- AA 390. Painting.** 2 hours any term. (UO)
Problems in portrait, figure, landscape, and still life, in all media. Prerequisite: 12 term hours in AA 290. Monday, 7:30-9:30.
- AA 480. Graphic Arts.** 2 hours any term (UO) (PSC)
Principles and methods of lithography; practice in all stages from the preparation of stones to the hand printing of editions. Course fee \$2.00 in addition to registration fee. Wednesday, 7:30-9:30. Givler.

Art Education

- ArE 315. Art in the Junior High School.** 3 hours spring. (UO)
Laboratory work with art media appropriate to the pre-adolescent age group. Critical evaluation of ideas, materials, and program content in terms of student experiences in junior high school. Course offered concurrently with the first term of student teaching in junior high. Required of all majors. Prerequisite: ArE 314 or consent of instructor.

Architectural Drawing

- AA 178. **House Planning and Architectural Drawing.** 3 hours fall. (OSU)
Appreciation and criticism of domestic architecture. Small house planning and drawing with reference to the needs of students in agriculture, business and technology, education, engineering, forestry, and home economics.

Business Administration

Accounting

- BA 111, 112, 113. **Constructive Accounting.** 3 hours each term. (PSC)
Technique of account construction; preparation of financial statements. Application of accounting principles to practical business problems. Required of majors, prerequisite to advanced work in business.
- Ac 311. **Income Taxation and Business Policy.** 3 hours spring. (UO)
Designed for students not specializing in accounting. Emphasis on the impact of Federal income and estate taxes on decisions of business management, such as decisions to invest, to merge, to distribute earnings, to establish retirement programs. Students not admitted to both Ac 311 and Ac 411, 412. Prerequisite: Ac 213.
- FBE 320. **Financial Institutions.** 3 hours winter. (UO)
The functions and economic significance of the major financial institutions in the economy that make the savings of society available to consumers, businesses, and governments, including commercial banks, savings banks, savings and loan associations, credit unions, insurance companies, investment trusts, various governmental lending agencies, and international financial institutions. Analysis of each institution and the part it plays in providing the short, intermediate and long-term credit needs of the users of funds. The commercial banking system in relation to its function of supplying the nation's money supply. The nature and functions of money and credit and the interrelationship of money, credit, and prices as they affect business decisions. Prerequisite: Ec 201, 202, 203.
- Ac 350, 351. **Asset Valuation and Income Measurement.** 3 hours fall and winter. (UO)
Study of accounting principles and procedures in asset valuation and management and the determination of periodic income. Problems of measurement and of interpreting financial accounting data. Prerequisite: Ac 213.
- Ac 352. **Corporate Accounts and Statements.** 3 hours spring. (UO)
Study of special problems of accounting for corporations, preparation and analysis of corporate financial statements. Use of cash flow and fund statements. Prerequisite: Ac 351.
- Ac 360, 361. **Principles of Cost Accounting.** 3 hours fall and winter. (UO)
Developments, presentation, and interpretation of cost information to aid management in planning and controlling business operations. Methods of collecting cost information, basic principles of cost reports to management, problems of cost allocation. Use of standard costs for control, various concepts of capacity in relation to overhead allocation. Cost-volume relationships, variable budgeting, and the analysis of differential costs. Prerequisite: Ac 213.
- Ac 411-412a, 412b-413. **Income Tax Procedures.** (G) 3 hours fall and winter. (UO)
Professional study and analysis of the Federal and Oregon income-tax structure, and of the problems involved in determining income tax liabilities. Determination of taxable income and computation of taxes for individuals, partnerships, corporations, estates, and trust; introduction to tax research. Prerequisite: Ac 213.

Ac 430. **Fund Accounting.** (G) 3 hours spring. (UO)

Financial administration and reporting requirements of Federal, state, and local government units, with emphasis on the use of fund accounting as a basis for budgetary control in these and other nonprofit organizations. Study of laws relating to the budgetary, financial, accounting, and auditing requirements of Oregon municipalities, and of recent developments in Federal performance budgeting. Prerequisite: Ac 213.

Ac 440, 441. **Accounting Verification.** (G) 3 hours fall and winter. (UO)

Auditing standards and procedures observed by certified public accountants in the examination of the financial statements of business and other organizations. Audit standards and objectives, collection of evidence, evaluation of internal control, problems of verification and application of procedures, preparation of programs, work papers, and reports. Prerequisite: Ac 352, 361.

Ac 450, 451. **Special Topics in Accounting.** (G) 3 hours winter and spring. (UO)

Advanced topics in the area of financial accounting analysis of cash flows and the capital budgeting decision, special problems in partnership accounting, accounting reports for firms in financial difficulties, consolidated financial statements, estate and trust accounts and reports. Prerequisite: Ac 352, one year of collegiate mathematics.

GRADUATE

Ac 507. **Seminar: Business Controls.** 3 hours spring. (UO)

Study of basic accounting and statistical techniques in analyzing and interpreting quantitative data for planning and control of business objectives. The following areas of business control are considered: budget, capital expenditures, taxes, financing long range development, cost reductions and methods improvement. The course deals specifically with problems of measuring and reporting to management on the validity of business objectives, as well as the effectiveness of policies and procedures employed in attaining these objectives.

Ac 542. **Auditing Concepts.** 3 hours spring. (UO)

Analysis of the problems encountered in examining and reporting on the financial statements of a business enterprise, verification standards, theory and application of sampling techniques, problems posed by data-processing machine systems, innovations in auditing concepts; selection, scope, and application of auditing procedures in the continued examination approach. Prerequisite: Ac 440, 441.

Ac 562. **Cost Analysis and Interpretation.** 3 hours fall. (UO)

Theory of cost analysis and the problem of determining cost for various decision-making purposes; the function of the controller in management planning and control, marginal and differential costs, the joint-cost problem, direct costing, budget, and intra-firm pricing and pricing policy. Readings in cost accounting literature and case studies. Prerequisite: Ac 361.

General Business

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

Survey of business organization, operation, and management intended to orient the student in business and industry.

BA 122. **Survey of Modern Industry (Managerial).** 3 hours spring. (PSC)

Representative industries within the United States covering development, structure, competitive conditions, basic processes, and services.

FBE 216a, 216b. **Business Law.** 3 hours fall and winter. (UO)

The legal system and legal procedures; legal principles in the fields of contracts and agency; legal problems related to the organization and operation of business firms. Principles and problems illustrated by selected cases. Designed to provide a basic understanding of the law as it affects business.

- BA 221. **Elements of Organization and Production.** 3 hours winter. (PSC)
Principles of management as applied to commercial and industrial concerns.
- BA 222. **Elements of Finance.** 3 hours fall. (PSC)
The financial problems of corporations. Organization of corporations; how they obtain long-term funds; management of working capital; distribution of securities. Required of majors. Prerequisite : BA 111, 112, 113.
- BA 223. **Elements of Marketing.** 3 hours fall or winter. (PSC)
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.
- BA 238. **Salesmanship.** 3 hours fall. (PSC)
Salesmanship as a factor in distribution and service; analysis of the customer and his wants; methods of obtaining and holding customers; wholesale and retail sales processes, services, and principles of selling.
- *BA 239. **Advertising.** 3 hours spring. (PSC)
* In fulfilling the marketing option School of Business Administration University of Oregon, credit will not be given for both BA 239 and MPM 341.
Advertising as a factor in the distribution process; advertising agencies; evaluation and selection of advertising media for various types of business establishments; preparation of copy.
- BA 315. **Analysis of Financial Statements.** 3 hours fall. (PSC)
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.
- BA 329. **Production Management.** 3 hours spring. (PSC)
Problems, readings, and discussion of factory organization, production methods, operational controls, utilization of facilities, supervision, and factory management. Prerequisite: BA 221.
- BA 359. **Finance Management.** 3 hours winter. (PSC)
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.
- *BA 366. **Sales Management.** 3 hours spring. (PSC)
* In fulfilling the marketing option School of Business Administration University of Oregon credit will not be given for both MPM 435 and BA 366.
Functions of management in the marketing process; promotion, planning coordination of production and sales; customer relations; selection, training, and supervision of salesmen; administrative policies. Prerequisite: BA 223.
- BA 407. **Seminar in Finance: Estate Planning.** 3 hours spring. (PSC)
Student selected problems in business operation and business management to be studied by the individual and discussed in group meeting under direction of academic staff. Prerequisite : Upper division standing.
- BA 411. **Business Law.** 3 hours fall. (OSU)
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.
- BA 412. **Business Law.** 3 hours winter. (OSU)
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.

- BA 413. **Business Law.** 3 hours spring. (OSU)
Law of business ownership and organization including individual proprietorship, agency, partnership, corporations, cooperative associations, and business trusts.
- FBE 418. **Advanced Business Law.** (G) 3 hours spring. (UO)
Study of the several fields of law related to business; sales of personal property, including landlord and tenant and mechanic's liens; security devices for credit transactions; business torts; government regulation of business; labor law. Prerequisite: BA 215.
- BA 431, 432. **Business and Industrial Statistics.** (g) 3 hours winter and spring. (OSU)
Statistical techniques for collecting and analyzing business data; statistical source materials; methods for dealing statistically with problems of inspection, quality control, personnel testing, financial analysis, and market research; development of facility in use of business data in reports; sharpening of critical faculties for appraisal of statistical "facts" and "proofs." Prerequisite: Mth 104, 105, or Mth 100.
- BA 433. **Credits and Collections.** 3 hours spring. (PSC)
Management functions performed by a credit department; relation to other functions of the business enterprise; nature of consumer credit and mercantile credit, sources of credit information, evaluation of credit risks, and credit controls useful to business firms; credit policy determination.
- BA 463. **Retail Merchandising.** 3 hours winter. (PSC)
Principles of organizing and operating retail institutions; store location, store layout, buying and selling, operating activities, personnel and control.
- BA 497. **Human Relations in Business.** (g) 3 hours spring. (OSU)
Relationships among managerial, supervisory, and other workers; actual cases used to help develop attitudes, frames of reference, and approaches which will be useful in solving human relations problems in business. Prerequisite: senior standing.
- BA 498. **Government Relations in Business.** (g) 3 hours winter. (OSU)
Statutory, administrative, and common law controls affecting modern business and their influence on budgetary considerations, business structure, and administrative policies; importance of constructive attitude and proper recognition of government aids and services to the business community. Prerequisite: senior standing.

Financial and Business Economics

- BA 414. **Real Estate Law.** 3 hours spring. (OSU)
Primary features of legal ownership of land including creation and rights of ownership under various estates, title protection, deeds, wills, and inheritance; property transactions related thereto, including contracts, mortgages, leases, and brokerage. Prerequisite: junior standing.
- FBE 425. **Real Estate Fundamentals.** (G) 3 hours fall. (UO)
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.
- FBE 426. **Real Estate Practice.** (G) 3 hours winter. (UO)
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.
- FBE 427. **Real Estate Appraising.** (G) 3 hours spring. (UO)
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.

FBE 463. Investments. (G) 3 hours fall. (UO)

Economic and mathematical principles relating to the investment valuation process; corporate practices and financial institutions and organizations that serve the investor; analysis of various types of securities and other investment media; investment policy for both individuals and institutions. Prerequisite: Ec 201, 202, 203; Ac 211, 212, 213.

FBE 464. Investments. (G) 3 hours winter. (UO)

Special methods used in analysis of industrial, public utility, railroad and other securities; taxation of investment income in relation to investment policy; development of sound principles of timing and selection of securities to meet the needs of various types of investment funds. Prerequisite: FBE 463.

GRADUATE**FBE 511. Methods in Business Research.** 3 hours fall. (UO)

Research techniques in business; project design, analysis of data, presentation of research findings.

FBE 522. Problems in Business Finance. 3 hours spring. (UO)

Selected problems in the financing of business enterprise, including short-term financial arrangements. Credit management, short-term bank borrowing, the preparation and use of financial information, the uses and difficulties of forecasting money needs, the choice between debt and equity, the cost of capital, and other problems. Classroom discussion of cases.

FBE 575. The Money Market. 3 hours winter. (UO)

Money-market instruments and institutions, and the part they play in the money market of the nation; analysis of the factors that influence the cost and availability of credit and money, including the influence of the Federal Reserve System and the Treasury. The aim is to develop an ability to analyze and appraise money-market trends and developments.

Management, Production, and Marketing**MPM 125-126a, 126b-127. Business Environment.** 3 hours winter and spring. (UO)

Social, political, and economic environment within which business functions in the United States; emphasis on the groups confronting business, their attitudes and behavior, and on the social, political, and economic responsibilities of business.

MPM 321. Organization and Interpersonal Relations. 3 hours fall. (UO)

Principles of management applied to commercial and industrial concerns; business planning, policy formulation, establishment of procedures, operations; theory and design of organizational structure; impact of work-flow plans, leadership patterns, and control systems upon human behavior.

***MPM 341. Principles of Advertising.** 3 hours fall. (UO)

* In fulfilling the marketing option School of Business Administration University of Oregon, credit will not be given for both BA 239 and MPH 341.

Advertising as a factor in the distributive process; the advertising agency; the "campaign"; the function of research and testing; the selection of media—newspaper, magazines, broadcasting, outdoor advertising, direct mail. Prerequisite: MPM 323.

MPM 349a, 349b. Domestic Transportation and Traffic Management. 3 hours fall and winter. (UO)

Designed to acquaint the student with principles and practices of transportation which should be known to every businessman engaged in production or distribution. The physical transportation plant of the United States and its performance; carrier responsibilities, services, and cooperation. The economic and legal basis of rates, the process of freight classification and tariff preparation and interpretation, various kinds of rate structures, and

relationships between transportation and the location of economic activity. Organization, management, and services of industrial traffic departments. Prerequisite: Ec 201, 202, 203 or consent of instructor.

MPM 354. Risk and Insurance. 3 hours fall. (UO)

Introduction to the basic principles of insurance from the viewpoint of the consumer; risk and risk bearing; ways of handling risk; insurance as a device to handle risk; principles of insurance buying, including carrier and agency selection; major types of private insurance—life, property, and liability—with emphasis on the underlying economic problems each type is designed to meet; the insurance contract and its legal basis, with emphasis on the elements common to all insurance contracts; economic and historical significance of insurance; insurance regulation.

MPM 412. Personnel Management. 3 hours winter. (UO)

Personnel management in the modern business organization; personnel policies and practices conducive to good relations with employees; personnel problems of small organizations.

MPM 428. Industrial Structure and Policy. 3 hours spring. (UO)

An analysis of technological, economic, political and environmental factors as the affect of genesis of specific industry characteristics. Stress is placed upon the influence these factors and characteristics have upon the resolution of major industrial problems and the formulation of basic policies. This aspect of policy formulation is developed by the use of case problems pertinent to the experience of twenty major manufacturing industries.

***MPM 435. Marketing Management.** (G) 3 hours fall. (UO)

The role of marketing in effective management; basic market forces; organization; analysis of individual marketing strategies; programming marketing effort; planning and control of the product; its price, and distribution channels; problems of communication; appraisal of marketing theory; and development. Major emphasis on problem solving and decision making, with pertinent references to research and experience in other disciplines.

MPM 436. Retail Store Management. (G) 3 hours spring. (UO)

Retail policies and problems. Stock-control systems, buying, methods of sales promotion, plant operation, personnel, credit, turnover, pricing, expense classification and distribution. Prerequisite: MPM 323.

MPM 442. Buying Behavior. (G) 3 hours spring. (UO)

The consumer, studied in terms of concepts drawn from contemporary behavioral and social science; principles of perception, learning, and motivation; concepts of class and status. Implications of these basic concepts for advertising, merchandise display, appearance of retail establishments, salesmanship, and relationship between buyer and seller.

MPM 447. Air Transportation. (G) 3 hours spring. (UO)

Air transportation systems; Federal regulation; Airport development in the United States; feeder air lines; nonscheduled air transportation.

MPM 455. Property and Liability Insurance. (G) 3 hours spring. (UO)

The more important methods of reducing business and personal risks from physical and moral hazards; major contracts of insurance to indemnify for losses from such perils as fire, windstorm, explosion, transportation, legal liability, dishonesty, and insolvency of others; loss adjustment practices, underwriting problems, reinsurance, rate making, consequential losses.

MPM 456. Life and Health Insurance. (G) 3 hours winter. (UO)

The chief methods of handling personal risks, in business as well as individual applications. Analysis of life insurance, annuity, and health insurance contracts from the viewpoint of the insurance consumer; legal and economic bases of life and health insurance; interpretation of major policy provisions; importance of rate making and reserve practices to the policy holder; inte-

* In fulfilling the marketing option School of Business Administration University of Oregon, credit will not be given for both MPM 435 and BA 366.

gration of private policies with social-insurance coverages; estate planning and the role of income and estate taxation; business and personal uses of wills and trust; settlement options; pension planning.

MPM 480. **Business History.** (G) 3 hours fall. (UO)

Evolving business systems in changing American business environment since the colonial period; study of individual business firms and businessmen that illustrate these systems at critical times in their development; the results of decisions made at such junctures examined for their significance for business management. Prerequisite: MPM 125, 126, 127 or consent of instructor.

GRADUATE

Ac 503. **Thesis.** (UO)

BA 503. **Thesis.** (UO)

FBE 503. **Thesis.** (UO)

MPM 503. **Thesis.** (UO)

Ac 507. **Seminar in Business Controls.** 3 hours spring. (UO)

BEd 507. **Seminar: Records Administration.** 3 hours spring. (OSU)

MPM 520. **Marketing Problems.** 3 hours spring. (UO)

Cost controls in distribution, delineation of market areas for the firm and industry, trade-channel analysis, organization for distribution, market-share analysis, product development and innovation, interregional trends.

MPM 531. **Theory of Business Organization.** 3 hours winter. (UO)

Development of the management role in business since 1900; principles of organization as they apply to lines of authority and responsibility in the business firm; planning and communicating personal leadership and judgment; development of standards in business organization.

MPM 556. **Pensions and Group Insurance.** 3 hours spring. (UO)

Economic and business conditions giving rise to the pension movement. The role of private pensions and group life and group disability insurance in overall employee benefit plans. Basic provisions of pension plans and of group life and disability insurance contracts. Integration of private insurance plans with QASDI. Funding, tax, actuarial, and legal problems in pensions and group insurance. Profit sharing and labor negotiated plans. Case studies of industrial retirement plans.

Secretarial Science

SS 111, 112, 113. **Stenography.** 3 hours each term. (PSC)

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.

SS 111, 112. **Briefhand.** 3 hours winter and spring. (PSC)

SS 121. **Typing.** 2 hours fall or winter. (PSC)

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.

SS 122. **Typing.** 2 hours any term. (PSC)

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.

- SS 123. **Typing.** 2 hours spring. (PSC)
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.
- SS 211, 212, 213. **Applied Stenography.** 3 hours each term. (PSC)
Advanced principles and phrases; dictation and transcripts covering vocabularies of representative businesses; legal form; newspapers and magazine articles. Prerequisite: SS 113, 123 or equivalent.
- Wr 214. **Business English.** 3 hours winter. (OSU)
Analysis and writing of common types of business letters. Prerequisite: Wr 113.
- SS 215. **Business Machines.** 3 hours fall or spring. (PSC)
Use and operation of various office equipment and machines.
- BEd 407. **Seminar: Filing Techniques.** 3 hours spring. (OSU)
- SS 411. **Secretarial Problems.** 3 hours fall. (OSU)
Duties and problems of the secretary in business and professions; relation to employer and fellow employees; office supervision. Prerequisites: SS 421 or equivalent.
- SS 422. **Office Organization and Management.** 3 hours winter. (OSU)
Scientific office management; organization; arrangement; operation; employment and training of office workers; efficiency problems; business ethics. Prerequisite: SS 313 or consent of instructor.

GRADUATE

- BEd 538. **Current Trends in Office Procedure.** 3 hours fall. (OSU)
Types of clerical and secretarial procedure programs used in secondary and collegiate schools; course content, teaching methods and materials; organization of laboratories; development of objectives, standards, instruction sheets, courses of study, and miscellaneous teaching aids. Prerequisite: Ed 408, BEd 536. Students who have not had Ed 408 must have had teaching experience in business subjects.
- BEd 541. **Current Practices in Typewriting.** 3 hours winter. (OSU)
Principles underlying development of typing skills; motivation, supplementary materials, and special devices. Prerequisite: Ed 408. Students who have had Ed 408 must have had teaching experience in stenography.

Education

- Ed 10. **Reading Improvement.** Non-credit (2) hours each term (GED)
A non-credit course for adults who are interested in improving their reading abilities. A practical approach will be combined with some modern devices to improve reading skills, increase reading rate, and stabilize confidence in reading processes.
- Ed 310. **School in American Life.** 3 hours any term. (PSC)
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 to the function of the school in contemporary American society. Field observation of school-age children is required.
- Ed 312. **Educational Psychology: Learning.** 3 hours any term. (PSC)
A consideration of the nature of the learner, changes which occur in learning processes, conditions under which learning best takes place, and the charac-

teristics and methods of the teacher who directs learning in the school. Basic concepts of measurement are utilized to evaluate the changes which characterize learning. Field of experiences supplement theoretical study. Prerequisite: Psy 201, 202.

Ed 314. Principles of Secondary Teaching. 3 hours any term. (PSC)

Principles, procedures, and problems of classroom teaching: the organization of subject matter and different methods of presentation; implications for methods of individual and group differences, motivation, and discipline; measuring and evaluating the results of teaching. Classroom observation is required. Prerequisite: Ed 310, 312.

Ed 344. Physical Education in the Grades. 3 hours any term. (PSC)

A study of method and materials in organizing, conducting and evaluating the elementary school physical education program and the significance of its elements. Emphasis upon basic principles and implications of child growth and development. Prerequisite: Ed 310, 312, and Psy 311.

Ed 351. School Health Program. 3 hours any term. (PSC)

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

Ed 356. Methods and Materials: Reading in the Elementary School. 3 hours any term. (PSC)

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. Classroom observation is required. Prerequisite: Ed 310, 312, and Psy 311.

Ed 358. Methods and Materials: Language Arts and Social Science. 3 hours any term (PSC)

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

Ed 359. Methods and Materials: Science and Mathematics. 3 hours any term. (PSC)

Science and mathematics in the elementary schools. To acquaint the student with the content of science and mathematics taught in the elementary schools, the methods employed in this teaching, and the materials that should be used. Classroom observation is required. Prerequisite: Ed 310, 312, and Psy 311.

Ed 389. Reading and Telling Children's Stories. 3 hours spring. (PSC)

An introduction to the collection of old folk and modern fanciful tales, with laboratory practice in the reading and telling of stories for children through the elementary grades. Prerequisite: Eng 388 or consent of instructor.

Ed 390. Enriching Children's Reading. 3 hours winter. (PSC)

A study of the enrichment of children's reading through literature. An advanced course designed for parents and teachers of nursery, kindergarten, and elementary school children. Prerequisite: Eng 388 or consent of instructor.

Ed 401. Research. Consent of instructor. 3 hours any term. (PSC)

Ed 407. Seminar: Development of Effective Thinking in Children. (G) 3 hours spring. (UO)

Ed 408. Special Secondary Methods: Composition. 3 hours spring. (PSC)

Problems and methods in selecting and organizing materials for instruction; comparison and evaluation of methods, laboratory techniques, supplies, equipment; economy of time and materials. Students must be prepared to register in sections offered during daytime hours shown in Portland State College Schedule.

- Ed 408. **Special Secondary Methods: Literature.** 3 hours winter. (PSC)
Problems and methods in selecting and organizing materials for instruction; comparison and evaluation of methods, laboratory techniques, supplies, equipment; economy of time and materials. Students must be prepared to register in sections offered during daytime hours shown in Portland State College Schedule.
- Ed 408. **Special Secondary Methods: Physical Education.** 3 hours winter. (PSC)
Problems and methods in selecting and organizing materials for instruction; comparison and evaluation of methods, laboratory techniques, supplies, equipment; economy of time and materials. Students must be prepared to register in sections offered during daytime hours shown in Portland State College Schedule.
- Ed 408. **Special Secondary Methods: Social Science.** 3 hours fall. (PSC)
Problems and methods in selecting and organizing materials for instruction; comparison and evaluation of methods, laboratory techniques, supplies, equipment; economy of time and materials. Students must be prepared to register in sections offered during daytime hours shown in Portland State College Schedule.
- Ed 424. **Measurement in Education.** (G) 3 hours fall. (UO)
Use and interpretation of informal and standardized tests are 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.
- Ed 424. **Measurement in Education.** (G) 3 hours winter or spring. (OSU)
Use of standard tests and scales to measure achievement in school subjects; elements of statistical methods. Prerequisite: senior standing.
- Ed 435. **Audio-Visual Aids.** 3 hours fall or spring. (PSC)
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. Prerequisite: junior standing.
- Ed 439. **The Gifted Child.** (G) 3 hours winter. (UO)
The psychology, education, and guidance of the mentally superior and the extraordinarily gifted child.
- Ed 440. **History of Education.** (G) 3 hours spring. (OSU)
Growth and development of education: Plato, Aristotle, Renaissance educators, Comenius, Locke, Rousseau, Pestalozzi, Froebel, Herbart, Herbert Spencer, and Dewey. Prerequisite: senior standing.
- Ed 451. **Preprimary Education.** (G) 3 hours fall. (OCE)
As 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.
- Ed 452. **Creative Arts in Childhood.** (G) 3 hours winter. (OCE)
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, constructed materials, literature, dramatic play, and other areas of expression as young children use them.
- Ed 462. **Psychology of Exceptional Children.** (G) 3 hours winter. (UO)
Characteristics and problems of all types of exceptional children, with special emphasis on those with sensory handicaps; consideration of essential educational adaptations.

- Ed 463. **The Maladjusted Child.** (G) 3 hours spring. (UO)
The discovery and treatment of the emotionally and socially maladjusted child; the home, school, and community in relation to the child's mental health. Opportunities for the observation of family counseling techniques.
- Ed 464. **The Mentally Retarded Child.** (G) 3 hours fall. (UO)
The psychology, education, and guidance of the mentally retarded child.
- Ed 465. **Diagnostic and Corrective Techniques in the Basic Skills.** (G) 3 hours fall. (UO)
Introduction to extreme learning problems; factors associated with retardation in the basic skills; general principles of diagnosis and correction; survey of diagnostic instruments and corrective materials; specific corrective techniques and programs. Concerned with problems at both the elementary and the secondary level.
- Ed 467. **Applied Mental Hygiene.** (G) 3 hours spring. (OCE)
The development of personality, personality conflicts, mechanisms of adjustment, and the basic principles of mental hygiene. Emphasis on application of mental hygiene principles to personality development of teachers and of children. Prerequisite: Psy 201, 202.
- Ed 468. **Diagnostic and Remedial Techniques in Reading.** (G) 3 hours winter. (OSU)
Review of research in reading disability; diagnostic instruments and techniques relating to reading; corrective and remedial reading methods, materials, and programs. Concerned with problems at both the elementary and the secondary level. Prerequisite: Ed 465 or consent of instructor.
- Ed 469. **Reading in High School and College.** (G) 3 hours spring. (UO)
Basic principles of reading instruction; nature and scope of the total reading program; methods, and organization of the developmental and corrective reading programs in high school and college.
- Ed 471. **Administration of Special Education.** (G) 3 hours winter. (OCE)
Laws, rules and regulations governing the administration of special education programs in Oregon school districts.
- Ed 480. **Psychology of Reading Instruction.** (G) 3 hours fall. (UO)
Nature of the reading process; factors of learning and development related to reading achievement; psychological foundations of methods and materials of reading instruction.
- SEd 481. **Alcohol Studies in School Curriculum.** (G) 3 hours winter. (OSU)
Incorporation of scientific information about alcohol in school curriculum; physiological, psychological, sociological, and legal aspects of alcoholism. Prerequisite: 24 hours upper division education.
- Ed 485. **Principles and Practices of Guidance Services.** (G) 3 hours any term. (OSU)
Beginning course in guidance. Overview of guidance and personnel work; vocational, educational, health, social, personality, recreational, and individual development; participation of teachers, counselors, administrators, parents, and community organizations in guidance program. For teachers and administrators. Prerequisite: senior standing.
- Ed 486. **Occupational and Educational Information.** (G) 3 hours spring. (OSU)
Materials available regarding occupations; interpretations of present trends; value and usefulness for high school and college students. Prerequisite: senior standing.
- Ed 487. **Counseling Techniques.** (G) 3 hours winter. (OSU)
Mental achievement, trade, and other tests; administration of such tests; classification, methods in educational and vocational counseling. Prerequisite: Ed 485.

- Ed 491. **Social Education.** (G) 3 hours spring. (UO)
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.
- Ed 493. **Observation and Evaluation of Teaching.** 3 hours any term. (PSC)
Opportunity for experienced teachers to observe modern trends in schools and other institutions, and to discuss educational theories and practices. A limited number can be assigned to the few places available for this course. Selection will be made from written applications filed in advance with the Director of Student Teaching.

GRADUATE

- Ed 501. **Research.** 3 hours any term. (UO) (OSU)
- Ed 503. **Thesis.** 3 hours any term. (UO) (OSU)
- Ed 505. **Reading and Conference.** 3 hours any term. (UO) (OSU)
- Ed 506. **Special Individual Studies.** 3 hours any term (OCE)
Individual surveys, evaluative studies, and special studies in a limited area of interest, under the guidance of a designated staff member.
- Ed 507. **Seminar: Teacher/Parent/Pupil Conferences.** 2 hours fall. (UO)
To include the technique of planning, writing, and producing radio and television program series for administrator, teacher, and student use of radio and television broadcasts to supplement class learning experiences in the school.
- Ed 507. **Seminar: Human Relations in School Administration.** 3 hours fall. (UO)
To consider the principles and techniques of cooperative accomplishments as they apply to administrators, teachers and other members of educational enterprises. Using several disciplines, attention will be given to internal staff relations and the role and responsibilities of administrative officers.
- Ed 507. **Seminar: Teacher/Parent/Pupil Conferences.** 2 hours fall. (UO)
Discussion and application of psychological principles to the teacher-parent conference. Interviews with individual pupils will also be considered. The primary emphasis will be on the techniques of reporting pupil progress to parents. Enrollment limit is 18. Consent of the instructor is required.
- *Ed 509. **Practicum: Secondary School Counseling.** Hours to be arranged. (UO)
- Hum 511. **Contemporary Developments in the Humanities.** 3 hours spring. (OCE)
Emphasis upon the search for values in the modern world as reflected in the forces shaping contemporary philosophies and trends in contemporary literature.
- Sc 511. **Contemporary Developments in the Sciences and Mathematics.** 3 hours fall. (OCE)
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. For elementary teacher. Three lectures.
- SSc 511. **Contemporary Developments in the Social Sciences.** 3 hours winter. (OCE)
A study of contemporary literature in the various social science areas.
- Ed 512. **Research Procedures in Education.** 3 hours fall or winter. (OSU)
Methods, techniques, and tools for doing research work; meaning of scientific

* To be offered 1962-63.

methods; ways of locating and formulating problems; techniques for solving problems; necessary statistical tools; collection and interpretation of data; preparation of research reports.

Ed 512. Research Procedures in Education. 3 hours spring. (UO)

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.

Ed 513. Evaluation of Classroom Instruction. 3 hours winter. (OCE)

Application of criteria for self-evaluation by individual teachers. Observation of effective teaching in the laboratory school. Analysis of research relating to teaching and discussion methods, group dynamics, and the evaluation of individual teaching.

Ed 552. Secondary-School Curriculum. 3 hours spring. (UO)

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.

Ed 523. School Activities. 3 hours fall. (UO)

Principles and purposes of school activities; pupil participation in school government assemblies; clubs, social activities; athletics, speech activities, drama, music, publications; evaluation of the school activity program.

Ed 527. Secondary School Administration and Supervision. 3 hours spring. (UO)

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.

Ed 534. Science in the Elementary School. 3 hours winter. (UO)

The place of science in the elementary school, with particular reference to the value of science in the lives of children. Selecting and organizing content; coordinating science with elementary-school activities; methods and materials, rooms and equipment.

Ed 535. Social Studies in the Elementary School. 3 hours fall (UO)

Social-education objectives; children's social problems; unit development; work-study skills; organization of the program; materials; research findings basic to the social education of children.

Ed 543. History of American Education. 3 hours winter. (OSU)

Intellectual development of America with special reference to education. Prerequisite: graduate standing in education.

Ed 546. Philosophy of Education. 3 hours fall. (OSU)

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.

Ed 522. Elementary-School Problems. 3-4 hours spring. (UO)

Selected current problems; issues and theories of elementary education; characteristics of modern teaching; major current trends.

Ed 553. Elementary-School Curriculum. 3-4 hours spring. (UO)

A systematic study of the elementary-school curriculum, including pupil needs in everyday life situations, objectives, essentials of good program, varying curriculum designs, organization of learning experiences, evaluation of learning, and appraisal of newer curriculum practices.

- Ed 554. Elementary-School Supervision and Administration.*** 3 hours winter. (UO)
For mature students of elementary education who are preparing for administrative or supervisory positions. Characteristics of good elementary schools, leadership responsibilities and processes, school organization patterns, pupil personnel policies, school-community relationships.
- Ed 561. Advanced Educational Psychology.** 3 hours spring. (OSU)
Experimental material that seems most useful and relevant to educational psychology. Prerequisite: graduate standing in education.
- Ed 565. Curriculum Foundations.** 3 hours winter. (UO)
Implications of basic social, philosophical, and psychological factors in curriculum planning and organization; historical background; techniques of curriculum planning.
- Ed 566. Curriculum Construction.** 3 hours spring. (UO)
Survey and appraisal of curricular patterns; state and city programs; courses of study in major subject areas; techniques of course-of-study planning.
- Ed 572. Public School Administration.** 3 hours fall. (UO)
Interpersonal relationships in administration; school-board powers, duties, roles, relationships; the superintendency—roles, responsibilities, issues, problems of staff personnel; student personnel problems at the local district level; problems and issues relating to the development of effective school-community relationships.
- Ed 573. Public School Organization.** 3 hours winter. (UO)
The schools in relation to state and Federal agencies; the intermediate unit, its purpose, organization, trends; local school districts—problems of organization, plant planning and management, school business administration, transportation, school finance, textbooks and supplies; extralegal agencies affecting education.
- Ed 574. School Supervision.** 3 hours spring. (UO)
The role of the supervisor in keeping education geared to the changing demands of society; theories of leadership; group processes and individual conference techniques; action research and related approaches to curriculum change; analysis of concrete supervisory problems.
- Ed 575. School Finance.** 3 hours spring. (UO)
The problems of school finance and business management; sources of school income; relationship to the state financial structure; budgeting and accounting. Includes the construction of a school budget. Prerequisite: work in administration and organization; or consent of instructor.
- Ed 576. School Buildings.** 3 hours winter. (UO)
Study of the problems involved in planning, financing, and construction of school buildings; care and maintenance of buildings; problems of equipment. Includes analysis of the problems of a specific district. Prerequisite: Work in administration and organization; or consent of instructor.
- †**Ed 588. Supervised Counseling Techniques.** 3 hours fall. (OSU)
Provides actual counseling experience in counseling laboratory. Interviewing; administering, scoring, and interpreting psychological tests; writing case studies. Consent of instructor required. Prerequisite: Ed 485, 487, Psy 478, 479, 480.
- Ed 593. Methods in Secondary-School Language Arts.** 3 hours fall. (UO)
Review of research in the problems of teaching language arts in the secondary schools; observation and participation in demonstration teaching of literature, grammar, and composition. Designed for administrators and supervisors, as

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

† To be offered 1962-63.

well as classroom teachers. Prerequisite: teaching experience or consent of instructor.

Ed 596. Methods in Secondary School Social Studies. 3 hours spring. (UO)

Trends in the social-studies curriculum; the unit method of teaching; the core curriculum; social-studies materials and teaching techniques; teaching reflective thinking; teaching current affairs. Students may work on problems of individual interest, and prepare materials for use in major and senior high-school classes. Prerequisite: teaching experience or consent of instructor.

Library Science

Lib 481. Beginning Bibliography and Reference. (G) 3 hours spring. (UO)

Study of reference materials and services, and of correct bibliographical form; practical problems in the use of reference books in school libraries.

Lib 486. Introduction to Cataloging and Classification. (G) 3 hours fall. (UO)

Instruction and practice in simplified procedures for the acquisition, preparation, and classification and cataloging of books and related library materials.

Lib 487. Cataloging and Classification. (G) 3 hours winter. (UO)

Principles and methods of classification and cataloging of books and related materials. Attention to the more difficult problems in the cataloging and recording of materials. Prerequisite: Lib 386.

Lib 494. Literature of the Sciences. (G) 3 hours fall. (UO)

Survey and evaluation of library materials in the fields of science and technology; problems of scientific documentation; literature searching methods; compilation, classification, and reporting of information.

GRADUATE

Lib 511. History of the Book. 3 hours spring. (UO)

History of the written and printed book, beginning with the development of graphic communication in prehistoric times and concluding with a survey of modern publishing.

Bacteriology and Hygiene

Bac 424. Community Health Problems. (g) 3 hours winter. (OSU)

Application of principles of hygiene to sanitary, statistical, governmental, epidemiological, and sociological problems. Prerequisite: one year of upper division biological science.

Health Education

HE 252. First Aid. 3 hours any term. (PSC)

Study of first aid and safety procedures—for the individual, schools, athletics, and civilian defense; meets certification standards of the American Red Cross.

HE 358. Safety Education. 3 hours winter. (UO)

Basic principles of safety education; current safety programs as they apply to the school, home, and community. Individual and group projects in the organization of materials for teaching safety education in public schools.

HE 463. Social Hygiene. (G) 3 hours fall. (UO)

Social-hygiene content, methods, and materials appropriate for junior and senior high schools. Prerequisite: senior standing in health education or biology; graduate standing in education or physical education.

- HE 464. **Health Instruction.** (G) 3 hours winter. (UO)
 Methods and materials in health instruction for junior and senior high schools. Special emphasis on the construction of health teaching units for Oregon secondary schools. Prerequisite: HE 361, 363, or consent of instructor.
- HE 465. **School Health Service.** (G) 3 hours spring. (UO)
 Purpose and procedures of health service in the schools; control of common communicable diseases; technique of pupil health appraisal by the teacher. Prerequisite: HE 361, 362, 363 or consent of instructor.

Physical Education

- PE 341. **Principles and Practices of Physical Education.** 3 hours fall. (PSC)
 An interpretative study and analysis of the principles and practices of physical education, through their historical development and in their present application and significance.
- PE 411, 412, 413. **Physical-Education Workshop.** (g) 3 hours each term. (UO)
 A workshop for physical-education teachers in the public schools. Each teacher works out and organizes the complete program for his school in light of the objectives, standards, and purposes of the Oregon physical-education program. Open to men and women. Content of the course is as follows:
 PE 411. Rhythmics and folk dancing.
 PE 412. Games of low organization.
 PE 413. Individual team sports and games.

School Health Education

- SEd 431. **School Health Problems.** (G) 3 hours fall. (OSU)
 Maintenance of health of school children; communicable diseases; school sanitation; planning of school buildings; health of school child; hygiene instruction. Prerequisite: Ed 310, 312, and one year of upper division biology.
- SEd 481. **Alcohol Studies in School Curriculum.** (G) 3 hours winter. (OSU)
 Incorporation of scientific information about alcohol in school curriculum; physiological, psychological, sociological, and legal aspects of alcoholism. Prerequisite: 24 hours of upper division education or consent of instructor.

GRADUATE

- PE 551. **Administration of Physical Education.** 3 hours winter. (UO)
 Organization and administration of the physical-education program at the college level.
- PE 552. **Administration of Athletics.** 3 hours fall. (UO)
 Historical development of athletics and their control. Place of athletics in education; purposes, administrative control, management, operational policies, care of equipment and facilities.
- PE 558. **Curriculum Construction in Physical Education.** 3 hours spring. (UO)
 Basic elements and procedures of curriculum construction in physical education; special application of the city, county, and state levels. For supervisors and administrators of physical-education programs.
- Rec 507. **Seminar: Foundations of Recreation.** 3 hours spring. (UO)
 Philosophical, historical, and scientific foundations of leisure and recreation; analysis of recreation values as related to other contemporary individual and community needs; culture, social, and economic significance of recreation and current issues.
- SEd 507. **Seminar: Sex Education.** 3 hours spring. (OSU)
 Analysis and evaluation of aspects of sex and reproduction fundamental to sex education; America's ethics; role of the home, the church, the school and other agencies in sex education; entire emphasis on the normal.

English

English Literature

- Eng 101, 102, 103. **Survey of English Literature.** 3 hours each term. (PSC)
From Beowulf to the present. Fall: Beowulf to Milton. Winter: Milton to Byron. Spring: Byron to the present.
- Eng 104, 105, 106. **Appreciation of Literature.** 3 hours each term. (PSC)
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.
- Eng 107, 108, 109. **World Literature.** 3 hours each term. (PSC)
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.
- Eng 201, 202, 203. **Shakespeare.** 3 hours each term. (PSC)
Study of the important plays—comedies, histories, and tragedies.
- Eng 211. **Vocabulary Building.** 3 hours any term. (OSU)
Through analysis of words and meanings in context, seeks to increase vocabulary, reading comprehension, and effective use of language.
- Eng 253, 254, 255. **Survey of American Literature.** 3 hours each term. (PSC)
American literature from its beginning to the present day. Two consecutive terms will satisfy the high-school teaching requirements in English.
- Eng 384, 385, 386. **Twentieth-Century Literature.** 3 hours each term. (PSC)
British and American Literature since 1900.
- Eng 388. **Children's Literature and Library.** 3 hours fall and spring. (PSC)
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.
- Eng 391, 392, 393. **American Novel.** 3 hours each term. (UO)
Development of the American novel from its beginnings to the present.
- Eng 463, 464, 465. **The Later Nineteenth-Century Poets.** (G) 3 hours each term. (UO)
Fall: Tennyson and Browning; winter: Arnold, the pre-Raphaelites, Swinburne and others; spring: Morris, Thomson, Thompson, Hopkins, and others.
- Eng 481, 482, 483. **Major American Writers: The Romantic Idealists.** (G) 3 hours each term. (UO)
Fall: Emerson and Thoreau; winter: Hawthorne and Melville; spring: Poe and Lowell.
- Eng 488. **Literature for Teachers.** (g) 3 hours spring. (UO)
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.
- Eng 491. **Introduction to Modern English.** (g) 3 hours fall. (UO)
A general view of modern English vocabulary, grammar, pronunciation, and spelling. Recommended for teachers of English.

Writing

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

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

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

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.

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

Study of modern practices in business correspondence, primarily for students of business administration. Analysis and writing of the principal types of correspondence. Prerequisite: Wr 111, 112, 113.

Wr 227. **Technical Report Writing.** 3 hours winter. (OSU)

Principles and techniques of writing effective reports for both business and industry. Prerequisite: Wr 113.

Wr 324, 325, 326. **Short Story Writing.** 3 hours each term. (UO)

For students interested in creative writing or in professional writing for magazines. Prerequisite: consent of instructor.

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

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

*Foreign Languages

French

RL 50, 51, 52. **First-Year French.** 4 hours each term. (PSC)

An introduction to French, stressing hearing, speaking, reading and writing in that order. Exercises in elementary composition and grammar.

RL 101, 102, 103. **Second-Year French.** 4 hours each term. (PSC)

German

GL 50, 51, 52. **First-Year German.** 4 hours each term. (PSC)

Provides a thorough grammatical foundation of German, stressing hearing, speaking, reading and writing in that order.

GL 101, 102, 103. **Second-Year German.** 4 hours each term. (PSC)

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

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

Italian

RL 70, 71, 72. **First-Year Italian.** 3 hours each term. (UO)
Grammar, pronunciation, composition, and translation of modern authors.

Russian

SL 50, 51, 52. **First-Year Russian.** 4 hours each term. (PSC)
The elements of the Russian language, stressing hearing, speaking, reading writing in that order.

SL 101, 102, 103. **Second-Year Russian.** 4 hours each term. (PSC)

Arabic (Semitic)

SmL 50, 51, 52. **First-Year Arabic.** 4 hours each term. (PSC)
Elements of the Arabic language, stressing hearing, speaking, reading and writing in that order.

Spanish

RL 60, 61, 62. **First-Year Spanish.** 4 hours each term. (PSC)
An introduction to Spanish, stressing hearing, speaking, reading and writing in that order.

RL 107, 108, 109. **Second-Year Spanish.** 4 hours each term. (PSC)

Geography

Geog 105, 106, 107. **Introductory Geography.** 3 hours each term. (PSC)
A general introduction to the field of geography, in sequence as follows: Geog 105, physical and cultural elements; Geog 106, regional geography of North America, South America, and Europe; Geog 107, regional geography of the USSR, Africa, and Asia. Geog 105 is prerequisite to Geog 106 and Geog 107.

Geog 304, 305, 306. **Economic Geography.** 3 hours each term. (PSC)
A systematic survey of man's occupation in terms of the distribution, use, and circulation of earth resources to be presented as follows: Geog 304, Geography of Primary Production; Geog 305, Industrial Geography; Geog 306, Geography of Transportation.

Geog 323. **Geography of the Pacific Northwest.** 3 hours spring. (PSC)
Analysis of human and economic geography of the Pacific Northwest with special attention to Oregon. Prerequisite: Geog 105 or Geog 208, 209, 210.

Geog 407-507. **Seminar: Problems of African Development.** 3 hours winter. (UO)
Studies of modern political and economic problems of Africa in the setting of their geographic environment. Prerequisite: Geog 432 or consent of the instructor.

Geog 432. **Geography of Africa.** (G) 3 hours fall. (UO)
Physical geography of the continent; the main economic, social, and political problems viewed in relation to geography. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203.

Geog 451, 452, 453. **Geography of Asia.** (G) 3 hours each term. (UO)
Land forms, climates, populations, and resources of Asia and adjacent islands. Fall: East Asia; winter: South Asia; spring: Southeast Asia and adjacent islands. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203.

Natural Resources

NR 261, 262, 263. **Cartography.** 3 hours each term. (OSU)

Development and utility of cartography; tools and materials; study and practice in using, compiling, and drafting maps, charts, and diagrams; reproduction problems.

Home Economics

Clothing and Textiles

CT 431. **Home Furnishing.** (G) 3 hours spring. (OSU)

Consumer study of home furnishing, fabrics, furniture, rugs, china, silver and ceramics. Particular attention paid to contemporary designers, materials, prices, and manufacturers. Prerequisite: CT 331.

Family Life

FL 225. **Child Development.** 3 hours spring. (OSU)

Growth and development of the infant and young child; observations in nursery school.

FL 422. **Family Relationships.** (g) 3 hours spring. (OSU)

Stages and adjustments in the family cycle; the family and the community. Prerequisite: FL 311, or consent of instructor.

GRADUATE

FL 507. **Seminar: Basic Concepts in Human Development.** 3 hours fall. (OSU)

FL 507. **Seminar: Interpersonal Relations Throughout the Family Life Cycle.** 3 hours winter. (OSU)

Foods and Nutrition

FN 225. **Nutrition.** 3 hours fall. (OSU)

Principles of nutrition from the standpoint of newer scientific investigations; selection of an optimal diet for health; present day problems in nutrition.

Home Economics Education

HEd 440. **Homemaking Education in the Community High School.** (g) 3 hours fall. (OSU)

Stimulation of interest in assuming leadership in programs of home and family living by extension of secondary homemaking departments into school and community through development of home and family life education at all levels of day school and adult-education programs under vocational education.

GRADUATE

HEd 507. **Methods of Teaching Clothing.** 3 hours spring. (OSU)

Emphasis on teaching the non-construction units in clothing. Prerequisite: Ed 408(d).

HEd 511. **Current Methods in Teaching Homemaking.** 3 hours winter. (OSU)

Application of current trends in education to homemaking education. Prerequisite: Ed 408(d).

Humanities

Hum 356. **The Art of the Film.** 2 hours fall. (PSC)

A general study of the principles underlying the language of film. A discussion of the processes of filmmaking and the creative problems of film-makers; the camera as an expressive instrument; editing; the dramaturgy of sound; the use of actors and music. Selected motion pictures are screened and analyzed. Prerequisite: upper division standing or consent of instructor.

Hum 357. **Film and Society.** 2 hours winter. (PSC)

The various effects of film on society, and conversely, film as the product, reflecting 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; screening of representative films. Prerequisite: upper division standing or consent of instructor.

Hum 358. **Films and Their Directors.** 2 hours spring. (PSC)

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. Screening of pertinent motion pictures. Prerequisite: Upper division standing or consent of instructor.

GRADUATE

Hum 511. **Contemporary Developments in the Humanities.** 3 hours spring. (OCE)

Emphasis upon 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.

Journalism

J 341. **Principles of Advertising.** 3 hours fall. (UO)

Advertising as a factor in the distributive process; the advertising agency; the "campaign;" the function of research and testing; the selection of media: newspaper, magazine, broadcasting, outdoor advertising, direct mail.

J 407. **Seminar: Industrial Editing.** 2 hours spring. (UO)

Survey of role of magazines, tabloids, newsletters and other publications in business and industry; analysis of objectives, interrelationship of various media of industrial communication; external and internal publications; layout, typography, makeup and printing methods and techniques; effective story and pictorial presentation; examination of enrollees' specific publication problems.

J 444. **Advertising Problems.** (G) 3 hours winter. (UO)

The student is given an opportunity to cultivate his judgment through consideration of actual marketing and merchandising problems, in the solution of which advertising may be a factor. Prerequisite: J 341.

J 459. **Publicity and Public Relations.** (g) 3 hours spring. (UO)

Basic techniques and methods in publicity programs for business, professional, and social organizations and interest groups; relationship of publicity to the broader concept of public relations. Not open to journalism majors.

Landscape Architecture

- LA 279. **Home Ground Planning.** 3 hours fall. (OSU)
 Organization and improvement of rural and urban home ground.
- LA 290. **Applied Landscape Design.** 2 hours winter. (OSU)
 Design of city and suburban residence properties and other design problems of three acres or less. Prerequisite: LA 279 or consent of instructor.
- LA 326. **Plant Materials.** 3 hours spring. (OSU)
 Trees, shrubs, vines, and perennials and their uses in plant composition.

Music

- Mus 111, 112, 113. **Music Theory.** 3 hours each term. (PSC)
 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.
- Mus 190. **Applied Music.** 1 hour any term. (PSC)
 Freshman year. Individual instruction in organ, piano, violin, cello, harp, voice, orchestral and band instruments. Attendance at class sessions and recitals required. Prerequisite: qualifying examination.
- Mus 196. **Orchestra.** 1 hour fall and winter. (PSC)
 Six hours maximum credit.
- Mus 290. **Applied Music.** 1 to 2 hours any term. (PSC)
 Sophomore year. Continuation of Mus 190, which is prerequisite.
- Mus 360, 361, 362. **History of Music.** 3 hours each term. (UO)
 A study of the development of music from primitive times to the present day.
- Mus 381, 382. **Music Fundamentals.** 3 hours fall and winter. (PSC)
 Basic musicianship for the elementary teacher, developed through experiences relevant to the classroom. Required of majors in elementary education. Prerequisite to Mus 382: Mus 381 or consent of instructor.
- Mus 383. **Music Fundamentals (Teacher Education).** 3 hours spring. (PSC)
 Experience in teaching the various music activities found in the elementary classroom. Required of majors in elementary education. Prerequisite: Mus 381 and 382 or consent of instructor.
- Mus 390. **Applied Music.** 1 to 3 hours any term. (PSC)
 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.
- Mus 396. **Orchestra.** 1 hour fall or winter. (PSC)
 Six hours maximum credit.
- Mus 405. **Reading and Conference.** 3 hours any term. (UO)
- Mus 407. **Seminar: Creative Music.** (G) 3 hours fall. (UO)
- MuE 407. **Seminar: Interpretation of Band Literature.** (G) 3 hours fall. (UO)
 The study and analysis of band scores with discussion of rehearsal techniques for concert preparation. The course will also include a thorough investigation of the best available music for band and wind instruments.
- Mus 490. **Applied Music.** 1 to 2 hours any term. (PSC)
 Senior year. Continuation of Mus 390, which is prerequisite.

GRADUATE

MuE 533. Music in the Elementary School. 3 hours winter. (UO)

Theory, supervision, curriculum, materials, and procedures of vocal music teaching in the elementary school. Research in problems involving music and related areas of instruction.

Philosophy

Phl 201. Problems of Philosophy. 3 hours fall or winter. (PSC)

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

Phl 202. Elementary Ethics. 3 hours winter or spring. (PSC)

The course develops the idea of man as a moral agent and considers critically various interpretations of the ideals and standards of moral conduct.

Phl 203. Elementary Logic. 3 hours fall or spring. (PSC)

In introductory study of the standard forms of reasoning. Exercise in recognizing, analyzing, criticizing, and constructing the main types of argument and proof.

Phl 301, 302, 303. History of Philosophy. 3 hours each term. (PSC)

A study of Western philosophy from the pre-Socratic Greek philosophers to Hegel.

Political Science

PS 201, 202, 203. American Governments. 3 hours each term. (PSC)

Fall and winter: National government. Spring: state and local governments.

PS 314, 315, 316. Government of State, Local, and Regional Affairs. 3 hours each term. (UO)

Analysis of the functioning and interrelationships of local, state and regional politics, with special attention to social, economic, and party systems, and to the psychology of political participation.

PS 320, 321. World Politics. 3 hours fall and winter. (UO)

Systematic analysis of the nature of international society and of the motivating and conditioning factors which explain interaction among states and other international entities.

PS 322. American Diplomacy. 3 hours spring. (UO)

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.

PS 414. Political Parties and Public Opinion. (G) 3 hours fall. (UO)

Analysis of the structure and functions of political parties and public opinion, in terms of historical development and roles on various levels of government. Political attitudes, propaganda, the politics of urban life, interest groups.

PS 420, 421. International Organization. (G) 3 hours fall and winter. (UO)

A survey and analysis of the development of public international organization, with chief emphasis on the United Nations and its affiliated organizations; consideration of the leading problems of the United Nations; international administration.

PS 422. International Law. (G) 3 hours spring. (UO)

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

Religion

R 421. **Religion and Society.** (g) 3 hours fall. (UO)

The relation of religion to social institutions. Religion and the State, totalitarian and democratic. The social teachings of the various churches and religious groups. The religious situation today. Criteria for evaluating religion as a social force.

R 462. **History of Great Religions.** 3 hours winter. (OSU)

Comparative study of religions that command a large following today, such as Hinduism, Buddhism, Confucianism, Judaism, Christianity, and Islam.

R 463. **Psychology of Religion.** 3 hours spring. (OSU)

Bearing of psychology on religious thought and action, both past and present.

Speech

Sp 111, 112, 113. **Fundamentals of Speech.** 3 hours each term. (PSC)

Projects in extempore speaking. Primary emphasis on content and organization, with attention also to the student's adjustment to the speaking situation, effective delivery, audience motivation, and language speech.

Fall: Sp 111

Winter: Sp 111, 112

Spring: Sp 111, 112, 113

Sp 114. **Speech Development.** 3 hours fall. (PSC)

Speech projects designed to improve general speech personality and communication, and to develop better voice and diction.

Sp 225. **Public Speaking for Business and Professional Men and Women.** 2 hours fall. (UO)

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.

Sp 231. **Parliamentary Procedure.** 3 hours winter. (OSU)

Rules of parliamentary procedure; practice in application; forming temporary and permanent organizations; preparation of constitutions and by-laws. Students serve as chairman and secretary and learn how to participate effectively in meetings.

Sp 322. **Discussion.** 3 hours spring. (PSC)

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.

Sp 355. **Workshop Theater.** 1-3 hours each term. (OSU)

Advanced work in acting and dramatic production. Prerequisite: 3 term hours of Sp 253.

Sp 370. **Phonetics.** 3 hours fall. (PSC)

A study of sounds used in speech; determination of sounds; their symbolic nature; their production; physical and psychological problems involved in their perception. No prerequisite.

Speech Correction

- Sp 371. **Speech Science.** 3 hours winter. (UO)
A study of the anatomy, psychology, and physics of speech.
- Sp 481, 482, 483. **Speech Pathology.** (G) 3 hours each term. (UO)
Symptoms, causes, and treatment of speech abnormalities. Fall: functional articulatory defects, delayed speech, emotional speech disorders; winter: organic speech disorders, including deviations due to congenital malformation, injury, deafness, and neurological impairment; spring: public school speech correction, specific techniques in the diagnosis and treatment of major speech problems. Prerequisite: Sp 370, 371 or consent of instructor. Fall: Sp. 483. Winter: Sp 481. Spring: 482, 483.
- Sp 484, 485, 486. **Clinical Speech Therapy.** (G) 2 hours fall or spring. (UO)
Supervised clinical work with speech defective children and adults enrolled for counseling, testing, and treatment in the Speech and Hearing Clinic; weekly group discussion of case histories and techniques. Prerequisite: Sp. 481, 482, 483 or consent of instructor. (Sp 484, 485 and 486 are all available fall or spring.)
- Sp 488. **Audiology (Second Term.)** (G) 3 hours winter. (UO)
The auditory function, hearing loss. Auditory tests and their clinical interpretation, selection and use of hearing aids.

GRADUATE

- Sp 507. **Seminar: Psychological and Human Relations Aspects of Speech and Hearing Therapy.** 3 hours fall. (UO)
A course designed for persons who have had considerable training and clinical experience in speech correction. Study of psychological problems related to speech and hearing disorders, interviewing, counseling, patient-family-therapist relationships, inter-professional and intra-professional relationships. Consent of instructor required.
- Sp 507. **Speech and Language Problems of the Brain Damaged Child.** 3 hours spring. (UO)
This course will deal with types of brain damage, from common causes, and the effects of various kinds of damage on the acquisition and development of speech and language in the child. Attention will be directed toward problems in speech, reading, writing, spelling and numbers which are caused by neurological impairment. Relationships between brain damage and mental retardation and resultant speech and language problems will be studied. Evaluation procedures for the suspected brain damage child will be studied and symptoms of brain damage will be demonstrated with live cases. Different specialists will speak to the class. The course is designed specifically for graduate students who are speech clinicians, remedial reading teachers, teachers of the mentally retarded and classroom teachers. Permission of the instructor is required.

Science and Applied Science

Biology

- Bi 201, 202, 203. **General Botany.** 3 hours each term. (PSC)
An introduction to the morphology, physiology, and anatomy of flowering plants; brief survey of plant kingdom; introductory taxonomy. Two lectures; two 2-hour laboratory periods.
- Bi 204, 205, 206. **General Zoology.** 4 hours each term. (PSC)
For biology and zoology majors and premedical, pre dental, pre nursing, pre-

pharmacy, preveterinarian, physical education, psychology, fish and game management, and fisheries students. Three lectures; two 2-hour laboratory periods.

- Bi 326. **Comparative Vertebrate Embryology.** 4 hours fall. (PSC)
Comparative study of the development of several representative vertebrate forms. Prerequisite: Bi 206.
- Bi 353. **General Entomology.** 4 hours spring. (PSC)
An introduction to the morphology, physiology, biology, and classification of the insects.
- Bi 442. **Introduction to Genetics.** (g) 3 hours fall. (UO)
An introduction to the fundamental principles of genetics. 3 lectures.
- Bi 446. **Evolution.** (g) 3 hours winter. (OCE)
Evidences of evolution; mechanism of evolution, including genetic variation, selection, and other factors. Three lectures.

Chemistry

- Ch 104, 105, 106. **General Chemistry.** 4 hours each term. (PSC)
For students majoring in medical technology, pre dental, nursing and liberal arts. Three lectures; one 3-hour laboratory period.
- Ch 482, 483. **Thermodynamics.** (G) 3 hours fall and winter. (OSU)
Chemical principles from standpoint of thermodynamics. Prerequisite: Ch 442.
- Ch 484. **Electrochemistry.** (G) 3 hours spring. (OSU)
Theoretical and applied electrochemistry, including electrochemistry of solutions. With Ch 482, 483 constitutes a year sequence. Prerequisite: Ch 442.

General Science

- GS 101, 102, 103. **General Biology.** 3 hours each term. (PSC)
The fundamental principles of life as they apply to both plants and animals. For general students and those majoring in fields other than biology. If taken after courses with similar material have been completed, credit will be restricted. Two lectures; one 2-hour laboratory period.
- GS 104, 105, 106. **Physical Science.** 3 hours each term. (PSC)
Fundamental principles of physics, chemistry, astronomy, and geology; development and application of the scientific methods. For students majoring in fields other than the physical sciences who wish a broad view of the principles of several physical sciences. No credit will be allowed in GS 104 after a course in geology has been completed, nor in GS 105 after a course in chemistry, nor in GS 106 after a course in physics.
- GS 311, 312, 313. **Natural History of Oregon.** 3 hours each term. (PSC)
The earth and life history of Oregon; kinds and distribution of contemporary plant animal life; man and his relation to the environment; conservation of natural resources. Prerequisite: upper-division standing and a year sequence in general biology.

Geology

- G 201, 202, 203. **Geology.** 3 hours each term. (PSC)
Processes of nature by which earth's surface has been built up, deformed and torn down; natural history and occurrence of common rocks and useful minerals; outline of history of earth and life.

- G 204, 205, 206. **Geology Laboratory.** 1 hour each term. (PSC)
Laboratory and field work to accompany G 201, 202, 203 for all students desiring practical knowledge of geology. One 3-hour laboratory period.
- G 301, 302, 303. **Geologic History of Life.** 3 hours each term. (UO)
Fall: Origins and early history of life, as revealed by the fossil remains of animals and plants; winter: geologic history of vertebrates; spring: geologic history of the Primates. Not intended for majors.
- *G 315, 316, 317. **Mineralogy and Rock Study.** 3 hours each term. (OSU)
Prerequisite: One year of physical science.
- G 325. **Engineering Geology.** 3 hours spring. (OSU)
Physical geology and its application in engineering and industry. Prerequisite: upper division standing. Some field trips required.
- G 350. **Rocks and Minerals.** 3 hours winter. (PSC)
Opportunity to become acquainted with rocks and minerals without prerequisites of more technical courses. Especially useful to students expecting to teach general science or elementary grades.
- G 351. **Elements of Geology.** 3 hours fall. (PSC)
Principles of geology, processes which shape the surface of the earth, historical development of the earth. Designed as an introduction to geology for general science teacher and elementary teacher.
- G 352. **Geology of Oregon.** 3 hours spring. (PSC)
Origin and geologic history of landscape features in Oregon. Prerequisite: upper-division standing. Two lectures; one 3-hour laboratory period.

GRADUATE

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

Mathematics

- Mth 10. **Elements of Algebra.** Non-credit. (2) hours fall or winter. (GED)
For students with less than one year of algebra. Open to others on recommendation of department.
- Mth 100. **Intermediate Algebra.** 4 hours fall or winter. (PSC)
Prerequisite: one year of high school algebra, or Mth 10. No credit allowed for this course if it is completed after Mth 101 or any other more advanced course in Mth.
- Mth 101. **College Algebra.** 4 hours each term. (PSC)
Prerequisite: One and one-half years of high-school algebra, or Mth 100.
- Mth 102. **Plane Trigonometry.** 4 hours winter or spring. (PSC)
Prerequisite: Mth 101.
- Mth 103. **Analytic Geometry.** 4 hours spring. (PSC)
Prerequisite: Mth 102.
- Mth 111. **Mathematics for Elementary Teachers.** 3 hours winter and spring. (PSC)
Treatment of historical aspects of mathematics, social uses and relationships, mathematical principles, development of problem-solving ability and proficiency in the fundamental skills of mathematical processes.

* G 312, 313, 314, and 315, 316, 317 are parallel sequences and credit may not be obtained for both.

† For high school teachers of science. They do not prepare for science research. Graduate standing is prerequisite.

- Mth 201, 202, 203. **Differential and Integral Calculus.** 4 hours each term. (PSC)
Standard sequence for students of science and engineering. Prerequisite: Mth 103.
- Mth 331, 332. **Differential Equations.** 3 hours fall and winter. (PSC)
Ordinary and partial differential equations. Prerequisite: Mth 203.
- Mth 333. **Vector Analysis.** 3 hours spring. (PSC)
Modern vector and matrix methods with applications for students of mathematics, physics, and engineering. Prerequisite: Mth 203.
- Mth 425, 426, 427. **Elements of Statistical Methods.** (g) 3 hours each term. (UO)
A basic sequence in statistical analysis; not intended for mathematics majors. Presentation of data; sampling theory; tests of significance; analysis of variance and covariance; regression and correlation; sequential analysis; design of experiments; distribution-free techniques. Prerequisite: one year of high-school algebra; junior standing.
- Mth 431, 432, 433. **Advanced Calculus.** (G) 3 hours each term. (UO)
A rigorous treatment of topics introduced in elementary calculus and of more advanced topics basic to the study of real and complex variables. Prerequisite: calculus.
- Mth 434, 435, 436. **Numerical Calculus.** (G) 3 hours each term. (OSU)
Finite differences, interpolation, numerical differentiation and integration, numerical solution of differential equations, use of electronic digital computer. Prerequisite: Mth 332 and Mth 334.

GRADUATE

- Mth 507. **Seminar: Group Theory.** 2 hours each term. (OSU)
Topics to be covered are: concept of set, set operations, mappings, partition of a set into subsets, rotation groups of regular polygons and polyhedra, groups of permutations, cyclic groups, subgroups, Lagrange's theorem, applications of group theory to solution sets of polynomials, isomorphism, homomorphism, normal divisors and factor groups. A three term offering (total 6 hours) underwritten by funds from the National Science Foundation. Admission by application to be filed not later than September 20. Application forms may be obtained from the Office of Special Programs, 1633 S. W. Park Avenue. A limited number of people will be permitted to take the 6 hours at their own expense. Request for permission to enroll not as an NSF participant must be made to Dr. Byrne.
- Mth 591. **Mathematics for High School Teachers (Arithmetic.)** 3 hours fall. (OSU)
For high school teachers of science. They do not prepare for science research. Graduate standing is prerequisite.
- Mth 592. **Mathematics for High School Teachers (Algebra.)** 3 hours winter. (OSU)
For high school teachers of science. They do not prepare for science research. Graduate standing is prerequisite.

Oceanography

- OC 331. **Introduction to Oceanography.** 3 hours winter. (OSU)
Elective nontechnical course designed to give student broad general background. Emphasis on relationship between oceanography and other fields. Prerequisite: junior standing.
- OC 432. **Physical Oceanography.** (G) 3 hours fall. (OSU)
Physical processes in ocean and estuaries; some field work. Prerequisite: senior or graduate standing, one year of mathematics, one year of physics.

- OC 433. **Currents and Water Masses.** (G) 3 hours winter. (OSU)
Factors contributing to origin and preservation of water masses and currents of oceans; distribution of variable in sea. Prerequisite: OC 432.
- OC 434. **Estuarine and Shoreline Processes.** (G) 3 hours spring. (OSU)
Estuarine and nearshore processes; waves, surf and beach effects, tides and tidal currents; types and mechanism of estuarine circulation. Prerequisite: OC 432.

Physics

- Ph 201, 202, 203. **General Physics.** 5 hours each term. (PSC)
Standard college physics. Three lectures; 1 recitation; one 3-hour laboratory period. Prerequisite: Mth 102, or consent of instructor.

GRADUATE

- Ph 578, 579. **Physics of the Solid State.** 3 hours each term. (OSU)
Dielectric properties; paramagnetism; free electron theory; semiconductors; transistor theory; imperfections. Prerequisite: Ph 313, 475. Students who have graduate standing in chemistry, mathematics, or engineering may take course with consent of instructor.
- Ph 582. **Modern Physics.** 3 hours spring. (OSU)
For high school teachers of science. They do not prepare for science research. Graduate standing is prerequisite.

Engineering

Chemical Engineering

- ChE 405. **Reading and Conference: Assaying.** 3 hours winter. (OSU)
Commercial methods of wet and dry assay of ores, metallurgical products. Prerequisite: Quantitative analysis. Enrollment limited to 16. Registration only by application made to the instructor after December 11.

Civil Engineering

- CE 213. **Mechanics (Dynamics).** 3 hours spring. (PSC)
Continuation of CE 212. Principles and problems in kinetics; force as a factor causing motion, work, energy, friction, and impact. Prerequisite: CE 212.
- CE 381, 382, 383. **Structural Theory.** 3 hours each term. (OSU)
Algebraic and graphical analysis of statically determinate structures, including reactions, bar forces in trusses, shear and bending moment in beams, and influence lines for beams, girders with floor systems, and trusses. Analysis of three-dimensional frameworks, cables, methods of approximate analysis of statically indeterminate structures; deflection of structures. Study of properties of concrete, design of rectangular beams, T-beams, reinforced for compression, slabs, and columns.

GRADUATE

- CE 505. **Reading and Conference: Soil Mechanics.** 3 hours winter term. (OSU)
Effects of grain size, void ratio, pore fluid, and other influences on the permeability of soils; intergranular, neutral, and seepage pressures in soil masses;

stress-strain-time relationships of one-dimensional consolidation; application of the Boussinesq, Westergaard, and Newmark theories for estimating stresses; settlement analysis considering hydrostatic cases, residual hydrostatic excess pressures, artesian pressures, precompression, and time influences; strength theory of soil media; shearing characteristics and strength of cohesive soils under varied initial conditions and varied procedures. Prerequisite: Undergraduate soil mechanics and undergraduate fluid mechanics.

CE 521. Fluid Mechanics. 3 hours fall term. (OSU)

Dimensional analysis; fluid statistics; dynamics of an ideal incompressible fluid; flow net analysis; effects of gravity and viscosity on fluid motion; characteristics of fluid turbulence; unsteady flow in pipes.

CE 522. Fluid Mechanics. 3 hours winter. (OSU)

Boundary layer theory; Prandtl-Karman resistance equations; flow of incompressible fluids in pipes; flow of incompressible fluids through contracted openings; flow of an ideal compressible fluid, isothermal and adiabatic flow with friction.

CE 523. Fluid Mechanics. 3 hours spring. (OSU)

Graphical methods for solution of pipe flow problems; flow in multiple manifolds; short pipes, syphons; surge tank analysis; waterhammer analysis. Prerequisite: Undergraduate fluid mechanics, calculus.

CE 534. Mechanics of Materials. 3 hours fall. (OSU)

Behavior of structural materials; theories of failure, multiaxial stress conditions, determination of shear center, unsymmetrical bending, curved beams, elastic-membrane analogy, torsion of noncircular sections and thin-walled tubes, impact and vibrations, energy methods of analysis. Prerequisite: CE 211, 212, 213, 485.

CE 535. Prestressed Concrete. 3 hours spring. (OSU)

Analysis and design of prestressed concrete structural elements. Systems of prestressing, pretensioned and post-tensioned beams and girders, material requirements and specifications. Shear and principal tension requirements and calculations. Prestressed composite girders, typical designs. Tendon layout details, including application principles to cantilever and continuous girders. Linear and circular prestressing. Prerequisite: CE 213, 383, ME 316 or equivalent.

Electrical Engineering

EE 405. Reading and Conference: Symmetrical Components. 3 hours fall. (OSU)

The application of symmetrical component methods for evaluating fault currents and voltages in three-phase electrical power transmission systems. The use of "per unit" methods in determining the positive, negative, and zero sequence equivalent networks. The determination of transmission line constants relative to fault calculations. Transformer connections and their equivalent circuits as used in the sequence networks. Interpretation of rotating machinery data relative to fault calculations and fault kva contribution. Fault problem simulation and evaluation by system analyzer application and digital computer methods. Emphasis will be made on practical application.

GRADUATE

EE 511, 512, 513. Electron Devices. 3 hours each term. (OSU)

Two terms on theory on semiconductor devices, including varistors, thermistors, transistors, tunnel diodes, photoelectric and thermo-electric cells, silicon-controlled rectifiers, and pupu devices. One term on theory of electron

tube devices, including electron ballistics, cathode ray tubes, klystrons, magnetrons, and traveling wave tubes.

EE 554, 555, 556. Control Systems. 3 hours each term. (OSU)

Nonlinear control systems by describing function, phase plane and phase space methods. Sampled data and digital controlled systems, self-optimized systems, and process control. Stochastic input analysis. Multiple input and interconnected multiple loop linear control systems. Prerequisite: Undergraduate linear control systems or equivalent.

General Engineering

GE 101, 102, 103. Engineering Concepts. 3 hours each term. (PSC)

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

GE 111, 112, 113. Engineering Graphics. 2 hours each term. (PSC)

Fundamental principles and the rules of composition of the graphic language of engineering. Three 2-hour periods.

GE 211. Structural Drafting. 3 hours fall. (PSC)

Timber, steel, and concrete details; conventions and marking systems; connections, and truss details; plotting of earthwork cross sections and profiles. Three 3-hour laboratory periods.

GE 212. Elementary Machine Drafting. 3 hours winter. (PSC)

Simple mechanisms and advanced working drawings; shop practices and requirements; reproduction methods. Three 3-hour laboratory periods.

Industrial Engineering

IE 405. Reading and Conference: Quality Control and Industrial Statistics. 3 hours winter and Spring. (OSU)

GRADUATE

IE 506. Projects. 3 hours spring. (OSU)

Analysis and development of improvements in one or more of the following areas: selection, replacement, and training of people; product design, selection and replacement of major processes and/or equipment; paper work controls, subsystems revision, complete system or plant revision, and future long-run policies and strategy.

IE 591. Operation Analysis. 3 hours fall. (OSU)

Current operation analysis techniques; application of methods and cost studies to advanced problems. Prerequisite: IE 391, 392.

IE 592. Timing Techniques. 3 hours winter. (OSU)

Modern time-study methods; critical study of allowances, skill levels, and advanced problems. Prerequisite: IE 391, 392.

Mechanical Engineering

ME 217, 218, 219. Mechanics of Materials. 3 hours each term. (PSC)

Fall: Forces and force systems (statics); 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.

ME 421. Heating and Air Conditioning. (g) 3 hours fall. (OSU)

Application of basic principles to heating, ventilating, and air conditioning of buildings for human comfort or industrial processes; design, selection, construction, and operation of air conditioning equipment, including warm air, steam, hot water, and refrigeration systems; testing of air conditioning equipment and controls.

GRADUATE**ME 514. Advanced Mechanical Design.** 3 hours spring. (OSU)

More advanced than the machine design course ME 411, 412, 413; includes studies of a systematic approach to design, starting with the first suggestion or indication of the need or desirability through the preliminary steps leading to the initial design; the design itself; and finally, the cursory treatment of the development, redesign, testing, manufacturing, and servicing aspects. Complex design situations are considered that allow the student to exercise his imagination and creative capacity; realistically treats the associated areas that enter into a design and its combination in production. Prerequisite: ME 413 or equivalent.

ME 527. Heat Transfer. 3 hours winter. (OSU)

Analytical, numerical, and analog solutions of steady state and transient heat conduction problems; boundary layer analysis of forced convection, Reynolds analogy, comparison with correlations of experimental results by nondimensional parameters; natural convection; black body and gray body radiation, and radiation network analysis; heat exchanger arrangements and analysis. Prerequisite: ME 323.

ME 581. Theoretical Structural Metallurgy. 3 hours fall. (OSU)

Structure of the atom; structure of metal crystals; electron theory of metals; rate processes in metal structures; kinetics of phase changes; shear process in metal crystals. Prerequisite: ME 312, 313.

Social Science

Anthropology

Anth 101, 102, 103. General Anthropology. 3 hours each term. (PSC)

Fall: man as a living organism; biological evaluation; the human cycle. Winter: evolution of man; human races, nature and problems. Spring: the development of culture; organization of culture; man, participant in and observer of culture.

Anth 305. Peoples and Cultures of Africa. 3 hours fall. (PSC)

Ethnic groups of Africa south of the Sahara (Negro Africa); culture history and development; contemporary culture contacts and culture change.

Anth 307, 308, 309. Peoples and Cultures of the World. 3 hours each term. (PSC)

Origin, description and analysis of the cultures and societies of selected areas of the world: Asia, Africa, and Oceania.

Economics

Ec 201, 202, 203. Principles of Economics. 3 hours each term. (PSC)

Principles that underlie production, exchange, distribution, etc. Prerequisite: sophomore standing.

Ec 212. Outlines of Economics. 3 hours spring. (OSU)

A rapid survey of the principles of economics and economic institutions. Restricted to science and upper division professional school students.

- Ec 325. **Labor Economics.** 3 hours fall. (PSC)
Conditions of labor since the industrial revolution. The labor market; wages, hours, conditions of work, unemployment. Prerequisite: Ec 201, 202, 203.
- Ec 326. **Organized Labor.** 3 hours winter. (PSC)
History of the labor movement, its philosophy and growth. Present structure and position of organized labor. Prerequisite: Ec 201, 202, 203.
- Ec 327. **Labor Legislation.** 3 hours spring. (PSC)
Labor legislation in the United States, problems facing the employer, employee, and the public that call for regulation through public authority. Prerequisite: Ec 201, 202, 203.

History

- Hst 101, 102, 103. **History of Western Civilization.** 3 hours each term. (PSC)
Origins and development of Western civilization from ancient times to the present.
- Hst 201, 202, 203. **History of the United States.** 3 hours each term. (PSC)
From colonial times to the present day.
- Hst 341, 342, 343. **Europe Since 1789.** 3 hours each term. (PSC)
Political, social, economic, and cultural trends from the French Revolution to the present. Fall: 1789 to 1890; winter: 1890 to 1929; spring: 1929 to the present.
- Hst 391, 392, 393. **The Far East in Modern Times.** 3 hours each term. (PSC)
Examination of the political, social, and religious institutions of Confucian China. Comparison and contrast of the impact of the West upon China and Japan. Revolution and Communism in China. Role of the United States in Eastern Asia in the nineteenth and twentieth centuries. Prerequisite: Hst 101, 102, 103; Hst 201, 202, 203.
- Hst 441, 442, 443. **History of France.** (G) 3 hours each term. (UO)
Fall: Old Regime, Revolutionary and Napoleonic era, nineteenth century to 1870; winter: Third Republic, 1870-1940; spring: since 1940.
- Hst 446. **Modern Germany.** (G) 3 hours spring. (UO)
The German Empire, the republican experiment of 1918-33, the National Socialist regime, World War II and after.
- Hst 447, 448, 449. **History of Russia.** (G) 3 hours each term. (UO)
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.
- Hst 457. **The Era of American Sectional Conflict.** (G) 3 hours fall. (UO)
Forces, events, and persons that contributed to unity and particularism in the United States during the first half of the nineteenth century.
- Hst 458. **The Era of the Civil War.** (G) 3 hours winter. (UO)
Intensive study of the critical decade before the Civil War and of the course of that conflict.
- Hst 459. **The Era of Reconstruction.** (G) 3 hours spring. (UO)
Problems of the tragic era following the Civil War; their continuing effects to the end of the nineteenth century.
- Hst 460, 461, 462. **History of American Thought and Culture.** (G) 3 hours each term. (UO)
Main currents of American intellectual and cultural life from colonial times to the present. Prerequisite: Hst 201, 202, 203 or consent of instructor.

- Hst 476, 477. **History of the West.** (G) 3 hours fall and winter. (UO)
The American frontier. First term: the early American frontier; second term: the Great Plains and the Far West.
- Hst 478. **History of the Pacific Northwest.** (G) 3 hours spring. (UO)
Detailed study of the building of civilization in the Pacific Northwest. Not open to students who have taken Hst 377. Prerequisite: Hst 201, 202 or consent of instructor.
- Hst 480, 481, 482. **The United States in the Twentieth Century.** (G) 3 hours each term. (UO)
Fall: to 1918; winter: 1918-38; spring: since 1938.

Psychology

- Psy 201, 202, 203. **General Psychology.** 3 hours each term. (PSC)
Basic principles and theories of behavior. Discussion of individual differences, intelligence, aptitude, 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.
- Psy 311. **Human Development.** 3 hours any term. (PSC)
Development of the child as an individual and as a member of social groups. Included is a comparative study of different home and school environments as they influence the psychological growth of the child. Field projects supplement the class work. Primarily for majors in education. Prerequisite: Psy 201, 202.
- Psy 318. **Applied Psychology.** 3 hours spring. (PSC)
Application of psychological facts and principles to human problems in business, industry, law enforcement, crime detection, advertising, and related fields. Prerequisite: Psy 201, 202, 203.
- Psy 335. **Counseling and Testing.** 3 hours winter. (PSC)
A survey of counseling and interviewing techniques, use of psychological tests in support of counseling procedures. Prerequisite: Psy 201, 202, 203.
- Psy 371. **Quantitative Methods.** 3 hours fall. (OSU)
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 sciences, business, education, and home economics. Not primarily computational. Prerequisite: Psy 202.
- Psy 411. **Mental Hygiene.** (g) 3 hours spring. (OSU)
Principles and application of mental hygiene to problems of individual in home, school, and occupational situations. Prerequisite: Psy 314 or equivalent.
- Psy 421, 422. **Principles and Methods of Psychological Assessment.** (g) 3 hours fall and winter. (UO)
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.
- Psy 432, 433, 434. **Personality.** 3 hours each term. (PSC)
I. Personality structure and theory; II. Study and use of measures of personality including inventories, tests, and projective techniques; III. Disorders or personality, meaning of mental health. Prerequisite: Psy 201, 202, 203; Mth 425, 426 or equivalent.

- Psy 450. **Abnormal Psychology.** (g) 3 hours spring. (UO)
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.
- Psy 460. **Developmental Psychology I: Infancy and Childhood.** (g) 3 hours fall. (UO)
Development of behavior and psychological activity through prenatal period, infancy, childhood, adolescence, maturity, and old age. Changes of intelligence, motor capacity, emotional response, language, and social behavior. Emphasis on social influence.
- Psy 461. **Developmental Psychology II: Adolescence and Maturity.** (g) 3 hours winter. (UO)
Development of behavior and psychological activity through prenatal period, infancy, childhood, adolescence, maturity, and old age. Chance of intelligence, motor capacity, emotional response, language, and social behavior. Emphasis on social influence.
- Psy 465. **Motivation.** (g) 2 hours fall. (UO)
Review of changing conceptions of motivation, particularly as a result of clinical studies, experimental work on animal behavior, and the contributions of topological psychology.
- Psy 472, 473, 474. **Individual Differences.** (g) 3 hours each term. (OSU)
Theories of personality; experimental evidence on individual differences; evaluation of differences; guiding and directing normal development. Prerequisite: Psy 371 or equivalent. Prerequisite for 473: Psy 472.
- Psy 490. **Psychology of Learning.** (g) 3 hours winter. (UO)
Survey of fundamental concepts of conditioning, rote learning, discrimination, problem solving, memory, and motor skills. Theory and experimental literature.
- Psy 492. **Psychology of Perception.** (g) 3 hours spring. (UO)
Survey of fundamental concepts of vision, audition, somesthesia, etc. Psychophysiological factors and psychophysical methodology.

GRADUATE

- Psy 507. **Seminar: Personal Adjustment and Counseling.** 3 hours winter. (UO)
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.
- Psy 519. **Research Studies in Child Development.** 3 hours fall. (OCE)
Survey and interpretation of current research studies and experimental programs concerned with the physical, emotional, intellectual and social development of children.
- Psy 520. **Psychology of Learning.** 3 hours spring. (OCE)
Introduction to the major theories of learning current among psychologists doing research in the field. Experimentation and research underlying these theories applied to modern educational practices. Includes learning theory and practices at all age levels through adulthood.
- Psy 524, 525. **Individual Intelligence Testing.** 3 hours fall and winter. (UO)
Supervised practice in the administration, scoring, and interpretation of intelligence tests, chiefly the Stanford-Binet, the Wechsler intelligence scale for children, the Wechsler adult intelligence scale. Prerequisite: Psy 421.

Sociology

- Soc 204, 205, 206. **General Sociology.** 3 hours each term. (PSC)
The basic findings of sociology concerning the individual, culture, group life, social institutions, and factors of social change.
- Soc 308. **World Population and Social Structure.** 3 hours fall. (UO)
Introduction to the general field of population studies, providing within a sociological framework an analysis of historical, contemporary, and anticipated population conditions and trends, as these are related to social situations and the organization of society. Prerequisite: Soc 204, 205, 206 or Soc 307.
- Soc 334, 335. **Social Psychology.** 3 hours winter and spring. (PSC)
Analysis of the psychological and sociological processes in personality formation and in various forms of group behavior. Particular attention to origin, function, ideologies, membership, and leadership. Prerequisite: Soc 104, 105 or Psy 201, 202.
- Soc 338. **Marriage and the Family.** 3 hours any term. (UO)
The growth and development of the husband-wife relationship throughout the family life cycle. Special emphasis on the period from engagement through the birth of the first child. Prerequisite: Soc 204, 205; or Psy 201, 202; or consent of instructor.
- Soc 347. **Social Welfare Resources and Organization.** 3 hours winter or spring. (UO)
Designed to create an awareness of characteristics of problems brought to social agencies; of processes involved in planning services; of inter-agency relationships and the need for multidiscipline approach in providing services for people. Field trips, speakers, films and projects are used as teaching aids. Offered at University of Oregon Medical School.
- Soc 407. **Seminar: Penological Systems.** (G) 3 hours spring. (UO)
- Soc 416, 417. **Criminology and Delinquency.** (G) 3 hours fall and winter. (UO)
The nature and extent of delinquency and crime as forms of deviant social behavior; contributing factors; current prevention and treatment programs. Prerequisite: Soc 204, 205; or Psy 201, 202; or Soc 307.
- Soc 421. **Social Change.** (G) 3 hours winter. (UO)
Sociological analysis of purposive social change as manifest in various programs of social reform and reconstruction. Doctrines examined in relation to the contexts out of which they have evolved.
- Soc 440. **Group Dynamics.** (G) 3 hours spring. (UO)
Analysis of the dynamics of group interaction; significance and applications of the principles of group behavior for the group worker. Prerequisite: 9 hours in sociology or psychology; or consent of instructor.

Social Work

GRADUATE

- SW 511, 512. **Social Case Work.** 3 hours fall and winter. (UO)
Generic concepts of case work practices in different agency settings; diagnosis and analysis of cases, treatment problems.
- SW 516. **Personality Development.** 2 hours fall. (UO)
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.

SW 517. Personality Development. 2 hours winter. (UO)

Emotional problems commonly met in social agencies; the role of psychiatrist and case worker in the study and treatment of the patient. Prerequisite: SW 516 or consent of instructor.

SW 556. Medical Information for Social Work (and other professions). 2 hours spring. (UO)

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.

SW 572. Community Organization for Social Welfare. 3 hours spring. (UO)

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.

SW 580. Introduction to Public Welfare. 3 hours fall. (UO)

History, philosophy and current theories of social welfare work; development of public and voluntary programs of social services.

SW 582. Administration of Social Insurance. 3 hours winter. (UO)

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.

College Courses By Televised Instruction

Courses listed on this page may be taken for college credit during the 1961-62 school year. Information concerning courses and registration may be obtained by calling or writing Office of Televised Instruction, General Extension Division, 565 Capitol, N.E., Salem—or any General Extension Division office.

• **KOAC-TV (7) Corvallis**

• **KOAP-TV (10) Portland**

Ph 104, 106, 107. **Descriptive Astronomy.** 3 hours each term for off-campus viewers. (UO) 9:00-9:50 a.m., Mon., Wed. and Fri.

Descriptive treatment of solar and stellar systems. No prerequisite.

Psy 201, 202, 203. **General Psychology.** 3 hours each term. (PSC) 10:00-10:50 a.m., also 2:00-2:50 p.m. Mon., Wed. and Fri.

Psychology staff, Oregon State System of Higher Education.

Basic principles and theories of behavior. Prerequisite: Sophomore standing or consent of instructor.

GS 101, 102, 103. **General Biology.** Off-campus viewers: no credit without arrangements for laboratory work. (OSU) 11:00-11:50 a.m. also 3:00-3:50 p.m. Mon., Wed. and Fri.

Principles of biology as they apply to both plants and animals. No prerequisite.

PE 160. **General Hygiene.** 2 term hours. (OSU) 9:00-9:50 a.m. also 11:00-11:50 a.m. Tues. and Thurs.

Principles and practices of health promotion. No prerequisite.

RL 50a, 50b, 51a. **First-Year French.** 2 hours each term (4 hours on campus—2 TV terms equal one campus term). UO Evenings*.

An introduction to French, stressing reading and speaking. No prerequisite.

Mth 101, 102, 200. **College Algebra, Trigonometry, and Calculus with Analytical Geometry.** 4 hours each term. (OSU) Evenings*

Prerequisite: Mth 100 or consent of instructor.

PS 231, 232, 233. **Current Affairs.** 2 hours each term. (PSC) Evenings*

Current political, economic, and sociological problems. No prerequisite.

Wr 111, 112, 113. **English Composition.** 3 hours each term. (OSU) Evenings*

Frequent written compositions with emphasis on clarity and accuracy. Prerequisite: completed high school English requirements.

Ed 435. **Audio-Visual Aids.** (G) 3 hours each term. (OSU) Evenings*

Film, slide, chart, and other visual materials. Classroom project. Prerequisite: Teachers currently in-service.

KOIN-TV, Channel 6, Portland, will present a national network course in modern biology—GS 414, 415, 416. **Biology for Teachers** (g), 3 hours each term—from 7:05-7:30 a.m.. Other commercial station telecourses to be announced.

* Exact hours and other information for evening classes not available at this printing.

General Extension Division

Through its extension program of the educational resources of its seven campus institutions, the Oregon State System of Higher Education has the responsibility of serving the higher education needs of the people of Oregon not regularly enrolled in a college or university.

The General Extension Division serves as the administrative agency of the State System of Higher Education—initiating, coordinating and guiding extension programs: 1. Offerings for credit, such as regular courses, correspondence study, workshops, institutes and telecourses. 2. Services of a noncredit nature, such as audio-visual activities and facilities, cultural activities, and other educational service projects. 3. Continuing-education opportunities for adults through non-credit courses, institute-conference programs, radio, television films and other media of communications of information.

The General Extension Division is responsible for establishing staffing and maintaining departments for education services, regional offices to represent all departments of the division, audio-visual, radio and television facilities to provide higher education for adults based on the unified program of the Oregon State System of Higher Education.

Administration and Staff

*JOHN R. RICHARDS, Chancellor, State System of Higher Education
JAMES W. SHERBURNE, Dean, General Extension Division
RALPH W. STEETLE, Associate Dean; Director, Department of Educational Media
DANIEL W. FULLMER, Director, Department of Instruction, Portland Center
VIRON A. MOORE, Assistant Dean; Director, Department of Instruction, Statewide
DONALD R. LARSON, Assistant to the Dean; Director, Office of General Services

Department of Instruction, Statewide

Helping implement the objectives of the General Extension Division, the Department of Instruction, Statewide serves the state's citizens with college-level evening classes, correspondence study courses, conferences, workshops, telecourses, and consultant services to business, industry, education and other activities. Any community in Oregon may become a meeting place for statewide evening classes if satisfactory facilities are provided and sufficient enrollment is guaranteed to cover actual operating costs. Present statewide offices are maintained on campus in Eugene, Corvallis, Ashland, La Grande and Monmouth, as well as in Salem.

Administration and Staff

VIRON A. MOORE, Assistant Dean; Director
HOWARD J. AKERS, Assistant Director; Head, Salem Center
FLOYD B. ALBIN, Campus Representative, Oregon College of Education
CHARLES D. DEAN, Head, Office of Correspondence Study
W. KENNETH FERRIER, Alcohol Studies Education
E. MILTON GRASSELL, Consultant, Visual Instruction
HAROLD P. HOYT, Head, Northwest Regional Office

* Resignation effective Oct. 31, 1961.

CHARLES A. IVIE, Head, Southern Regional Office
 DONALD E. LOW, Head, Office of Business and Public Administration
 JENNELLE MOORHEAD, Consultant, Health and Community Welfare
 DORA S. PRENTISS, Coordinator, Office of Televised Instruction
 CHARLES F. RUFF, English
 JOHN A. SCHULZ, Psychology
 ROY L. SKEEN, Head, Eastern Regional Office
 DOROTHY D. SMITH, Head, Eugene Center
 JEAN L. SUTHERLAND, Art
 HERMAN C. VOELTZ, History

Department of Educational Media

The Department of Educational Media, established and embodied in the General Extension Division in 1960, utilizes radio, television and other audio-visual instruments in the service of the people of the state. Radio station KOAC is received through western and central Oregon. Two non-commercial educational television stations, KOAC-TV and KOAP-TV, serve more than 70 per cent of the state's population. Oregon Educational Television Network draws program resources from studios in Portland, Corvallis, Eugene, Monmouth and Salem. Interinstitutional course work is augmented by a variety of telecourses for the off-campus viewer. The network is affiliated with the Educational Television and Radio Center, providing access to the best in ETV programming in the nation.

The Office of Audio-Visual Services makes 16mm motion picture films and slides available to schools, community groups and other educational organizations. A film library and such services as planning and production of films, demonstrations, workshops and consultation on audio-visual methods and materials are the further responsibility of the office. Located on the campus of Oregon State University, the Office of Audio-Visual Services is maintained jointly by General Extension Division and the Federal Cooperative Extension Service.

Administration and Staff

RALPH W. STEELE, Associate Dean, Director
 W. CURTIS REID, Head, Office of Audio-Visual Services
 JAMES M. MORRIS, Head, Office of KOAC-AM-TV
 GRANT FEIKERT, Head, Engineering Development
 DAVID H. LEONARD, Program Director, KOAP-TV
 WILLIAM F. MCGRATH, Educational Service Manager
 ROBERT C. HINZ, Production Services Manager, News Editor
 LESTER G. MOCK, Television Production Supervisor
 PHILIP B. KALAR, Radio Production Supervisor, Music Director
 ELIZABETH D. PATAPOFF, Elementary School Programs
 SHIRLEY J. HOWARD, Women's Programs
 WILLIAM C. SMITH, Farm Programs
 JOHN R. SHEPHERD, Coordinator of radio and ETV programs, Eugene area
 ROBERT RICHTER, Coordinator of radio and ETV programs, Salem area
 ROGER REYNOLDS, Producer-Announcer
 JOHN MACDONALD, Producer-Announcer
 ROBERT M. ROBERTS, Producer-Announcer

JACK WINTER, Illustrator
RALSTON E. SMITH, Information Specialist
J. SIDNEY ARMSTRONG, Announcer
MACK W. SCHWAB, Producer-Director
RICHARD W. POTTER, Producer-Director
WILLIAM A. BYRD, Producer-Director
ALFRED R. KELMAN, Research Director
ANTON SCHMIDT, Chief Engineer, KOAP-TV
ROBERT TINKLE, Studio Supervising Engineer KOAP-TV
AL DAVIS, Cameraman, KOAP-TV
STEVE FEIKERT, Cameraman, KOAP-TV
JACK N. GOODMAN, Film Library Manager
E. MILTON GRASSELL, School Specialist
WILLIAM C. RUSH, Photographer
HELEN FAICK, Artist Service
HELEN DAETZ, Information Specialist
LAURENCE E. BUTLER, Regional Director, Audio-Visual Aids Center
WILLIAM P. WELLS, Regional Director, Audio-Visual Aids Service

Department of Instruction, Portland Center

Working in liaison with other departments of the General Extension Division, Portland Center develops and offers evening and summer term programs for students in the Portland metropolitan area and for others who wish to avail themselves of specific programs. A wide range of both credit and noncredit offerings is available through Portland Center.

The summer term program is designed to serve full-time and part-time students in all areas of credit—lower division, upper division and graduate. In addition, noncredit short courses, conferences, workshops and other special programs are provided, many of these in cooperation with the business, industrial and economic community.

The policy of Portland Center is to serve the needs of the greater Portland metropolitan area with whatever resources are available from catalogs of member institutions of the State System of Higher Education with safeguards to assure fulfillment of the responsibility regarding institutional standards for staff library, and physical facility.

Special institutes and training programs, developed through marshalling of multiple resources and talent, are featured in Portland Center's summer term, as well as during the other quarters.

Administration and Staff

DANIEL W. FULLMER, Director
PAUL E. WATSON, Assistant Director
ROBERT J. GRIDLEY, Assistant Director; Head, Office of Special Programs
GEORGE DIEL, Head, Office of Public Affairs
DONALD E. LOW, Head, Office of Business and Public Administration Programs
LEROY R. PIERSON, Head, Office of Student Personnel Services
HAROLD W. BERNARD, Coordinator, Counseling and Guidance
DONAL W. MCINTOSH, Coordinator, Business and Public Administration
AILEEN MCNETT, Coordinator, Office of Student Personnel

JOAN MERRITT, Coordinator, Office of Special Programs
 *ROBERT SMITH, Coordinator, Oregon Technical Institute
 CHARLES F. ZIEBARTH, Coordinator, Business Administration
 R. DUANE ANDREWS, Counseling and Guidance
 JOSEPH A. AZZARELLI, Consultant, School Administration
 ANDRIES DEINUM, Consultant, the Humanities
 ROBERT L. CASTEEL, Speech Clinician
 WILL DRUM, Sociology and Social Work
 ROBERT H. ENGLISH, Speech Therapist
 *JOHN E. GRENFELL, Director, Counseling Center for Adults
 RUTH E. HOPSON, General Science
 GRACE A. IRISH, Counseling and Guidance
 NINA SUE GORDON, Acting Director, Counseling Center for Adults
 WILLIAM E. KLINE, Counseling and Guidance; Student Advising
 HUGH G. LOVELL, Economics
 JOHN A. SCHULZ, Counseling and Guidance
 RONALD A. SMITH, Counseling and Guidance
 CLARK SPURLOCK, History
 RUTH WINCHELL, Science
 R. W. WILKINSON JR., Administrative Assistant

Office of General Services

The Office of General Services functions as a management structure for the various service activities of the General Extension Division—including the Business Office, Registrar's Office, Library, Information Services, Duplicating and Mailing Services.

In addition, it assists in the encouragement of special community programs and assists the departments in their projects in the area of community relations.

Administration and Staff

DONALD R. LARSON, Director; Assistant to the Dean
 CHARLES R. WENSTROM, Coordinator, Information Services
 WILLIAM T. LEMMAN, Business Manager
 BERNARD C. BAUMGARTNER, Registrar
 JEAN BLACK, Librarian
 MARY E. CARSON, Informational Representative (Statewide)
 GEORGE DIEL, Head, Office of Public Affairs (Portland Center)
 HELEN DAETZ, Informational Representative (Educational Media)
 RALSTON SMITH, Informational Representative (Educational Media)
 HELEN FAICK, Artist Service (Educational Media)

* On leave of absence.

Faculty

- MARIAN C. AIKIN, M.Sc., Assistant Professor of Family Life, Oregon State University.
B.Sc. (1939), Nebraska; M.Sc. (1943), Iowa State.
- MARJORIE ALBERTSON, M.M., Assistant Professor of Music, Portland State College and General Extension Division.
B.M. (1929), M.M. (1941), Idaho.
- NOURY S. AL-KHALEDY, E.F., Assistant Professor of Semitic Languages, Portland State College.
B.L.L. (1950), Syrian University; E.F. (1958), Union Theological Seminary.
- HARRY T. ALLAN, J.D., Assistant Professor of Business Administration, Oregon State University.
B.A. (1953), Washington and Jefferson College; B.S. (1953), Massachusetts Institute of Technology; J.D. (1956), Chicago.
- JUNE E. ALLEN, Ph.D., Professor of Geology, Portland State College.
B.A. (1931), M.A. (1932), Oregon; Ph.D. (1944), California.
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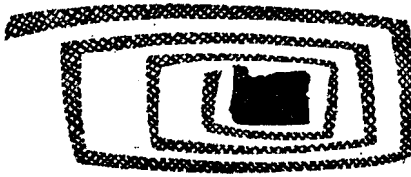
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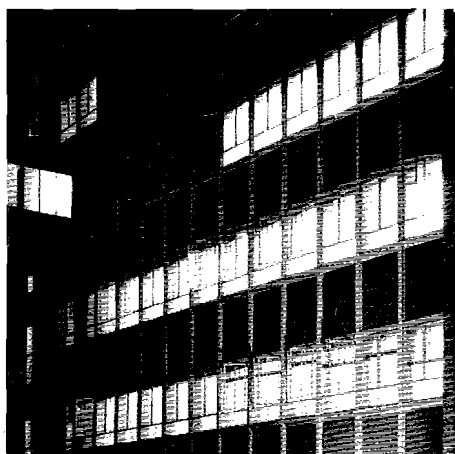
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