



REGON STATE SYSTEM OF HIGHER EDUCATION

GENERAL EXTENSION

BULLETIN

PORTLAND SUMMER SESSION

JUNE 20 - AUGUST 12

**PORTLAND
EXTENSION
CENTER**

1960

General Extension Division

BULLETIN

Oregon State System of Higher Education

1633 S. W. Park Ave.

Portland 1, Ore.

PORTLAND SERIES NO. 84

APRIL 10, 1960

Entered as second-class matter April 15, 1958, at the Post Office at Portland, Ore., under act of Aug. 24, 1912. Published 18 times a year: Feb. 10; March 1, 9, 10, 12, 15; April 10; May 15, 20; June 6; July 10; Aug. 28; Sept. 10, 12; Dec. 10, 12, 15, 17, by the General Extension Division, State Board of Higher Education, Portland, Ore.

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STUDY—AND RELAX—IN OREGON . .

Study is the first order of business at Portland Summer Session, of course—but for relaxation, there is conveniently nearby a scenic and recreational wonderland unsurpassed in the United States.

World-famed Mt. Hood, over 11,000 feet high, is only 62 miles from the center of Portland. At left, top, is a section of Oregon's famed 400-mile coastline. Center is Painted Hills State Park, a color-photographer's paradise. Lower picture is Crater Lake, formed by a now extinct volcano.

MT. ADAMS

ROOSTER ROCK STATE PARK

SANCTUARY OF OUR SORROWFUL MOTHER

TIMBERLINE LODGE

MT. JEFFERSON

MT. HOOD

LARCH MT.

ROCKY BUTTE

82 ND AVE.

EXTINCT VOLCANO

MT TABOR PARK

COLWOOD GOLF COURSE

SHRINE HOSPITAL FOR CRIPPLED CHILDREN

MAGSON H.S. 2735 N.E. 82nd Ave.

INTERNATIONAL AIRPORT

47TH. AVE.

RIVER SIDE GOLF COURSE

BROADMOOR GOLF COURSE

33 RD AVE.

BANFIELD SANDY BLVD

E. BURNSIDE ST. TO MT HOOD LOOP HIGHWAY AND CALIFORNIA HIGHWAY

STARK ST.

50 TH AVE.

LAURELHURST PARK

HAWTHORNE BLVD

HOSFORD SCHOOL 2303 S.E. 28th Place

POWELL BLVD.

FEED COLLEGE

EASTMORELAND GOLF COURSE

COLUMBIA EDGEWATER GOLF COURSE

COLUMBIA ST.

UNION AVE.

E. BROADWAY

BURNSIDE BRIDGE

MORRISON BRIDGE

HAWTHORNE BRIDGE

EAST SIDE PACIFIC HGHWY. TO OREGON CITY AND SOUTH

ROSS ISLAND

WARDTALK ISLAND

ROSS ISLAND BRIDGE

TRONA AVE.

SELLWOOD BRIDGE

WEST SIDE PACIFIC HGHWY. TO BALDWIN FREEWAY TO LEWIS AND CLARK COLLEGE

MALACAM ST.

BARBUR BLVD.

TERWILLIGER BLVD.

VETERANS HOSPITAL

U OF O. MEDICAL SCHOOL DOERN BECKER CHILDRENS HOSP. TUBER CULOSIS HOSPITAL

BRITTON

JEFFERSON ST.

ALDER ST.

CENTRAL LIBRARY ART MUSEUM

INCOLN H.S. 1600 S.W. Salmon St.

5TH AVE.

ST. JOHN R.D.

19TH AVE.

MULTNOMAH

23RD AVE.

WASHINGTON PARK INTERNATIONAL ROSE TEST GARDENS

PORTLAND ZOO

ST. HELENS ROAD

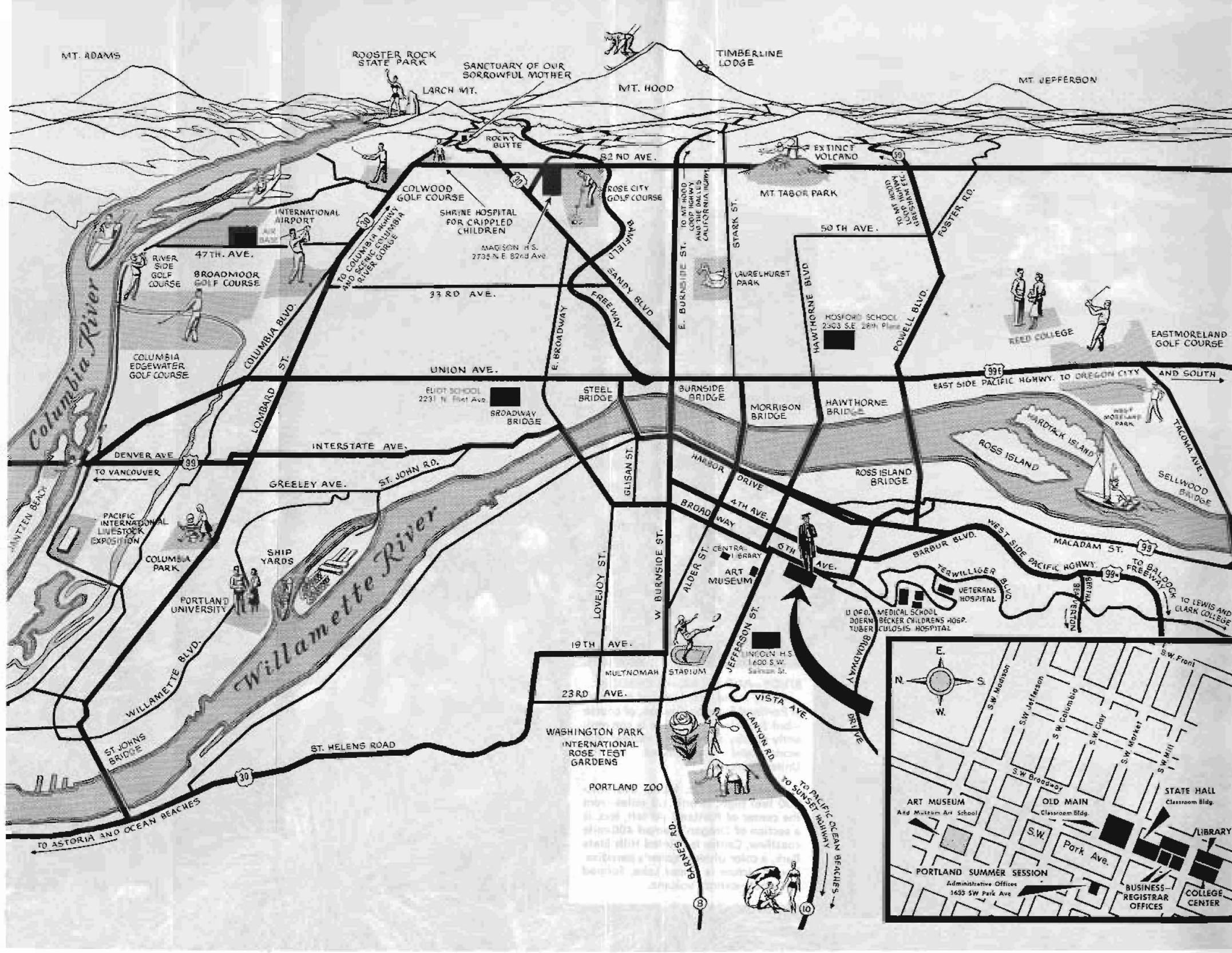
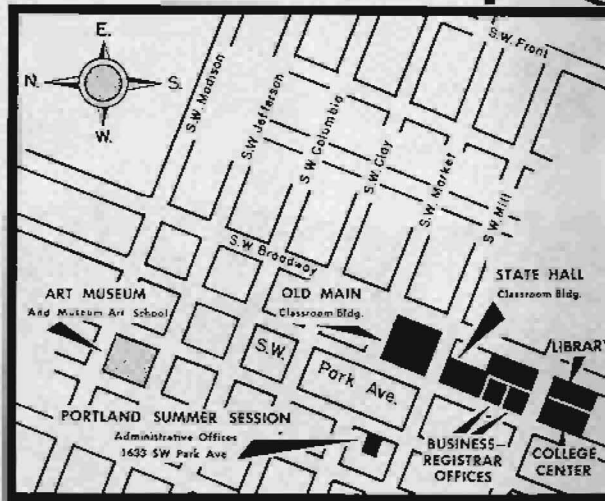
ST. JOHNS BRIDGE

WILLAMETTE BLVD.

TO ASTORIA AND OCEAN BEACHES

TO VANCOUVER

TO PACIFIC OCEAN BEACHES



GENERAL EXTENSION DIVISION

BULLETIN

1960

SUMMER SESSION

JUNE 20 - AUGUST 12

PRE-REGISTRATION JUNE 13-18

Post-Session Workshops

August 15-26



PORTLAND SUMMER SESSION
PORTLAND, OREGON

Oregon State System of Higher Education

Oregon State System of Higher Education

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

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

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

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

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

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

Six summer sessions are offered by the institutions of the system. For a brochure describing these sessions, please write "Oregon Summer Sessions, P.O. Box 1491, Portland 1, Oregon."

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State Board of Higher Education*

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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.

1960 Portland Summer Session

Academic Calendar

June 20, Monday: First day of classes and registration. Students wishing to register before the first day of classes may do so during the preregistration period, June 13-18. The Registrar's Office is at 1734 S.W. Park Ave.

Registration hours are: Weekdays, 9:00 a.m.-5:00 p.m.; Saturdays, 9:00-11:30 a.m. **Monday and Tuesday only, June 20 and 21**, students may register in the evening, from 5:30-8:30 p.m.

June 21, Tuesday: Last day to enroll in a class without the instructor's signature.

June 22, Wednesday: Late registration fee begins. Last day to change program without change-of-program fee.

June 25, Saturday: Last day to withdraw from a course without responsibility for grades. (Note: Registrar's Office closes at 11:30 a.m. on this date.)

June 25, Saturday: Last day to complete registration or change program. (Note: Registrar's Office closes at 11:30 a.m. on this date.)

August 11-12, Thursday and Friday: Final Examinations.

August 12, Friday: Portland Summer Session ends (Post-Session Workshops, August 15-26).

NOTE: Registration for courses of less than eight weeks' duration will be accepted no later than the third day of the course.

June 1960							July 1960							August 1960								
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S		
			1	2	3	4						1	2				1	2	3	4	5	6
5	6	7	8	9	10	11	3	4	5	6	7	8	9	7	8	9	10	11	12	13		
12	13	14	15	16	17	18	10	11	12	13	14	15	16	14	15	16	17	18	19	20		
19	20	21	22	23	24	25	17	18	19	20	21	22	23	21	22	23	24	25	26	27		
26	27	28	29	30			24	25	26	27	28	29	30	28	29	30	31					
							31															

Portland Summer Session welcomes your inquiries regarding questions not sufficiently covered in this Catalog and Class Schedule (the Class Schedule forms the center section of this Catalog). Please address your inquiries to: Office of the Registrar, Portland Summer Session, 1734 S.W. Park Ave., Portland 1, Ore.

We shall be happy to help you in any way we can.

The Summer Program

The forty-third annual Portland Summer Session will provide daytime offerings of both graduate and undergraduate courses based on the resources, curricula, and facilities of all the correlated schools which comprise Oregon's unified State System of Higher Education. An expanded program of evening offerings is also scheduled.

Location: Most of the classes meet in the buildings of Portland State College, 1620 S.W. Park Avenue, Portland 1, Ore. Administrative offices are located at 1633 S.W. Park Avenue, Portland 1, Ore. Telephone number is CApitol 6-6601. Offices of the Business Manager and Registrar, at 1724-34 S.W. Park Avenue, are open from 8:00 a.m. to 5:00 p.m. weekdays (and 9:00 to 11:30 a.m. on Saturdays, during June only).

Undergraduate Work

Admission as an Undergraduate: The only requirement for admission to Portland Summer Session is ability to do the work.

However, Portland Summer Session itself does not confer degrees; therefore, the student wishing credits earned at Portland Summer Session to apply toward a degree must inform himself of the degree-program requirements of the institution from which he expects to receive the degree.

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

Maximum Load: Twelve term hours* is the maximum credit which a student may earn in the eight-week summer session, except that undergraduates may enroll for thirteen hours in combinations of four or fewer courses which list a total of not more than thirteen hours of credit. (No exception to the twelve-hour rule is permitted in cases where all courses are taken for graduate credit.) Additional credit may be earned in courses which end prior to the opening date of the eight-week session or which begin after the eight-week session has closed.

Graduate Work

Certain masters' degrees granted by various institutions within the Oregon State System of Higher Education and the work toward these

* Term hours (quarter hours) may be converted to semester hours by multiplying the number of term hours by $\frac{3}{4}$. Semester hours may be converted to term hours by multiplying the number of semester hours by $1\frac{1}{2}$.

degrees which may be completed at Portland Summer Session (or at Portland Extension Center) are shown below:

Master of Education: This degree may be taken either at the University of Oregon or at Oregon State College.

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

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

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

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

For the degree with either of these Oregon institutions a well-integrated program is planned for each individual candidate designed to improve his educational competence as a teacher, supervisor, or administrator. Each program embraces: (1) a common core of required courses; (2) an area of concentration which provides a complex of courses organized to meet the special interests and needs of the student.

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

Master of Science in Education (from Oregon College of Education in Monmouth, or from either of the State System regional colleges in Ashland and LaGrande): Effective September 1, 1959, and affecting students who enter the Master of Science in Education program as of the fall quarter of 1959 and later, Oregon College of Education requires 24 hours of credit in residence. This requirement may be met by attending one Portland Summer Session and one summer session on the Monmouth campus.

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

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

Requirements for the degree include a core of 18 hours in professional courses and six hours in general courses. The thesis is optional with each student, but it is recommended for those planning further graduate work.

The qualifying examination is written, and the final examination may be both written and oral.

Master of Arts in General Studies: This is a research degree. It is open to individuals whose research interest and broad academic background, usually in three disciplines, make them eligible for graduate work wherein the offerings of several major departments are correlated. A thesis is required. Before a candidate's course work can be planned, he must present and justify a thesis topic which involves a research project embracing several major departments. An acceptable thesis in General Studies cannot be typical of work normally presented to any single department for a departmental degree.

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

Master of Arts (Departmental), Master of Science, Master of Science in General Studies: Programs for these degrees must be arranged with the candidate's major department at the degree-granting school selected. On approval by the major department a maximum of 15 hours of graduate work may be completed in Portland.

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

A group counseling session for all students who wish to begin a graduate program leading to the Master of Education degree from either the University of Oregon, Oregon State College, or Oregon College of Education will be conducted Monday, June 20, in Room 71, State Hall, at 11:00 a.m.

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

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

Maximum Load: Twelve term hours of graduate credit is the maximum

* Qualifying examinations will be administered during the Summer Session at times and places to be announced early in the session.

which a student may earn in the eight-week summer session. Additional credit may be earned only in courses which end prior to the opening date of the eight-week session or which begin after the closing date.

Special Programs

Teacher Training Program

Portland Summer Session offers required courses for regular or emergency elementary certification and for secondary certification. Required courses for certificates in special education and in school administration also are offered. Teachers and administrators seeking to fulfill requirements for the various certificates, including administrators' certificates and certificates to teach handicapped or exceptional children, should consult an adviser, or should refer to *Oregon Rules and Regulations Governing the Certification of Teachers*, an annual publication of the Superintendent of Public Instruction, Salem, Oregon.

Certification for Teaching Exceptional Children: Summer Session offerings are scheduled so that students who have the necessary prerequisites may complete certification requirements for teachers in the special areas of reading, speech, the mentally handicapped, and the hard-of-hearing.

Education of the Gifted Child: A June 20-July 15 workshop, open to elementary and secondary school teachers and administrators, will be devoted to education of the gifted child. Staff and resource personnel who have been connected with the Portland Public Schools gifted child program will lead the workshop activities. The workshop is described more fully in the Workshops section of this catalog.

Other Workshops: An extensive selection of other workshop-type offerings, ranging from one to eight weeks in duration, will provide teachers and others with opportunities for concentrated study in specialized areas. (See listing of workshops on page 53 of this catalog.)

Special Advanced Programs for Teachers of the Handicapped: Advanced work for teachers of the hard-of-hearing, the mentally retarded, and the speech-impaired is offered for qualified teachers in each of these areas.

Clinics. Demonstration clinics are scheduled for children with reading disabilities, emotional disturbances related to reading problems, mental retardation, speech problems, language disorders, and impaired hearing. Information regarding the clinics may be obtained at the Portland Summer Session administrative offices, 1633 S.W. Park Ave., CApitol 6-6601. Limited opportunities for observation are available to Summer Session students other than those enrolled in special education classes. Arrange-

ments for observation may be made after June 20 at the Portland Summer Session administrative offices.

Demonstration School. An eight-room elementary demonstration school will be operated at Shattuck School, 1914 S.W. Park Ave. Students, other than those enrolled in supervised teaching, who wish to visit must make arrangements after June 20 with the principal of the school. Call CApitol 6-6601.

Institute for Teachers: As an implementation of the Kitzhaber Curriculum Study, Portland Summer Session, in cooperation with the Portland Public Schools, will offer an Institute for Teachers in 1960 and probably an expanded one in 1961.

For the current summer, programs in English and Speech for secondary school teachers and a program in Mathematics for eighth grade teachers are scheduled. English and Speech will include Shakespeare and related studies in tragedy, introduction to language, short poems, syntax, composition and English prose, rhetoric, and oral discourse. Mathematics will include algebra and elementary number theory.

While the Institute is planned primarily for selected teachers of the Portland Public Schools, a limited number of qualified teachers outside the Portland system may enroll. Interested teachers who are not members of the Portland system should direct applications well in advance of the start of the Summer Session to Dr. Albert Kitzhaber, Portland Public Schools, 631 N.E. Clackamas, Portland. Successful applicants will be notified. (See English, page 34; Speech, page 51; Mathematics, page 41.)

School Counselor Training Program: Portland Summer Session will offer a Counseling and Guidance Training Institute under the National Defense Education Act for the second time in as many Summer Sessions. The Counseling and Guidance Training Institute carries graduate credit only, and admission involves special procedures. Applications may be arranged through Dr. Daniel W. Fullmer, Director, Counseling and Guidance Training Institute, 1633 S.W. Park Ave., Portland 1, Ore. Telephone number is CApitol 6-6601, extension 439.

Other Special Programs

Art Cooperative Program: Two photography workshops will be conducted at the Museum Art School by Minor White, distinguished photographer and teacher who during the regular school year is on the faculty of the Rochester Institute of Technology.

The Minor White workshops—one in beginning photography, one in advanced photography—will be held in the Museum Art School studios. The beginning workshop will meet July 20-26, the advanced workshop July 30-August 7.

Six-week courses in lower-division ceramics and painting will also be offered. These and other Portland Summer Session-Museum Art School

offerings in art are listed on page 19 of this catalog. Registration for Museum Art School classes normally is initiated at the school, S.W. Park Ave. at Madison St., and completed in the Portland Summer Session Registrar's Office.

Deutsche Sommerschule am Pazifik: Portland Summer Session, in cooperation with a group of leading colleges and universities in the Pacific Northwest, will again offer a program of intensive instruction in the German language and literature June 18 through August 6.

Housing is provided on the campus of Portland's Reed College. Fees, including full tuition and room and board, are \$385 for the complete program.

German will be used exclusively, in and out of the classroom, and German movies, music, and art will help students live the language. The program carries nine quarter hours of undergraduate credit and graduate credit by arrangement with the director. A number of scholarships are available.

Interested persons should communicate directly with Dr. H. F. Peters, Director, Deutsche Sommerschule am Pazifik, Portland Summer Session, 1633 S.W. Park Ave., Portland 1, Ore.

Middle East Institute: Portland Summer Session's Middle East Institute comprises introductory training in the Arabic language and study in the history, geography, and educational programs in the area. In addition, students enrolled in the Institute will participate with four faculty members in an inter-disciplinary seminar. Theme of the seminar will be "The Changing Middle Eastern Scene."

Enrollment in the Institute is open to secondary school Social Studies teachers, foreign service and military personnel, employees of American firms doing business in or with the Middle East, and others having a special interest in expanding their knowledge and understanding of this important area. Course-work taken as part of the Institute program carries college credit if desired, but individuals not working toward academic degrees may enroll on a non-credit basis.

Inquiries should be addressed to Dr. Frederic J. Cox, Director, Middle East Institute, Portland Summer Session, 1633 S.W. Park Ave., Portland 1, Ore.

Portland Writers Conference: The third annual Portland Writers Conference offers individuals interested in writing and literature an opportunity to study with successful, established writers in several fields of interest.

The workshops, panel discussions, lectures, and other activities are designed to give a concrete and intimate understanding of the writer's craft and of the techniques underlying the attainment of success in the novel, short story, juvenile writing, poetry, and non-fiction. Helpful evaluation of work in progress will give participants valuable insights into

their own writings, and an analysis of markets will help to locate suitable outlets for the students' work.

Academic credit may be obtained by arrangement with the director. Inquiries should be addressed to Anthony Netboy, Director, Portland Writers Conference, Portland Summer Session, 1633 S.W. Park Ave., Portland 1, Ore.

City Planning Seminar: An intensive seminar in "The Effects of Urban Environment" will be conducted during the summer session by Lewis Crutcher, A.I.A., architect and urban planner. A non-credit activity, the seminar will focus on the physical nature of the city of Portland, but planning achievements in other areas will also be examined. Guest speakers from other fields—psychology, sociology, mass communications, color-theory, and others—will bring their knowledge to bear on the problem. Photographic exhibitions, films, and field-trips will particularize the ideas under discussion.

Film-Showing and Discussion Series: A popular non-credit activity at Portland Summer Session is the annual film-showing and discussion series. Title of the 1960 summer series will be "Permanent Cinema: Films that Matter." The program will offer films of artistic value, authentically reflecting the national characteristics of their producing countries. They are also films that have made a profound impact on viewing audiences whenever they have been shown. They are not simply classic films, but social history at its best.

Coordinator of the series is Andries Deinum, Portland Extension Center-Portland Summer Session film consultant.

Workshop in Jazz: A non-credit workshop in the history and appreciation of Jazz will be conducted July 18-30 by the internationally-known authority, Marshall Stearns, author of "The Story of Jazz." A jazz name-band will give two concerts and smaller jazz groups will also participate.

Workshops in the Dance: Basic and advanced workshops in dance techniques, with creative studies, will be conducted June 15-30 by the noted dancer and teacher, Jean Erdman. Credit may be obtained by arrangement.

Liberal Education for Adults Program

The expanding Portland Extension Center-Portland Summer Session program of Liberal Education for Adults is many-sided and resists simple definition. Its over-all objective is to make available to any serious, mature student in any formal category—or in no formal category—the great wealth of educational and cultural opportunities to be found in the Portland area.

It is essentially a non-credit program, in that participation is not motivated primarily by the desire or need for academic credit. In some cases,

however, the individual may enroll in courses which normally carry college credit, if these courses are in line with his specific interests. In any case, the individual himself selects the activities, and the extent of his participation, as his personal needs and interests dictate.

Representative of these Liberal Education for Adults activities are the increasingly popular film-showing and discussion programs, the workshops and lectures offered in connection with the annual Writers Conference, a modern dance concert and workshop, the art showings in the College Center building, and many other activities.

All are planned as far as possible not to conflict with regular credit course-work and to help make the student's summer session attendance a stimulating and rewarding experience. Liberal Education for Adults activities are richly varied, and the program itself is informally structured to accommodate the wide range of interests present among the Summer Session student body and faculty.

College-Level Telecourses

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

The Portland Extension Center-Portland Summer Session educational television offerings are expected to be expanded considerably, as circumstances permit. Presently, the ETV project comprises both network and locally-produced offerings, and utilizes early-morning broadcast times on local commercial television stations.

The courses making up the core of the Portland Extension Center-Portland Summer Session ETV project are designed primarily for degree-oriented students, but non-credit participation is, of course, open to any others who can participate with profit to themselves.

Registration Procedure

Students will register for the Summer Session Monday, June 20, from 8:00 a.m.-5:00 p.m., and Monday and Tuesday evenings, June 20 and 21, from 5:30-8:30 p.m. Since many classes, and all early-session workshops begin on Monday, June 20, students are expected to register at a time that will not conflict with the first meeting of the class or workshop.

Students living in Portland or vicinity are urged to register during the pre-registration period, June 13-18. Normally, registration may be completed more easily and quickly during this period.

Students registering on Monday, June 20, will receive registration materials and instructions in Room 71, State Hall, S.W. Broadway at Montgomery St. At all other times, registration is in the Registrar's Office, 1734 S.W. Park Ave.

Procedure for Workshop Registrants: Workshops as well as all other classes scheduled to begin Monday, June 20, will meet on that day. For this reason, and because Workshop registration may involve scholarships or enrollment limitations, students are encouraged to register early for all summer Workshops.

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 400 (g) course (see course numbering system on page 19) must so indicate at the time of registration for the course; otherwise graduate credit cannot be granted. Graduate credit is not retroactively granted.*

Procedure for Veterans: Students who wish to avail themselves of educational benefits under the terms of PL 550 ("Korean" GI Bill) should present their discharge papers and establish their eligibility through the Veterans' Administration Office, Tower Building, Seattle, Wash. The process should be initiated as early as possible since two months may elapse before authorization is granted. Payments are made to students from the date of enrollment or from the date of authorization, whichever is later. Full-time undergraduate enrollment for PL 550 veterans is 11 or more term hours in the summer session; 9 or more term hours is considered full-time graduate enrollment.

Veteran students enrolled in any institution other than Portland State College during spring term of 1960 must complete a transfer to Portland Summer Session in order to receive subsistence benefits from the Veterans' Administration. To insure early payment, this transfer should be arranged before the end of the spring term.

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

Questions of veterans' eligibility and entitlement should be directed to the Veterans' Administration at the address given above. Questions concerning Portland Summer Session procedures for veterans should be addressed to Veterans' Clerk, Registrar's Office, 1734 S.W. Park Ave., Portland 1, Ore.

Summer Session Fees

(Office Hours: 8:00 a.m.-5:00 p.m., Monday through Friday, during entire session:
9:00-11:30 a.m. on Saturdays, during June only:
5:30-8:30 p.m. Monday and Tuesday, June 20 and 21, only)

Summer Session Registration Fees Are as Follows:

FULL-TIME STUDENTS AND AUDITORS (7 credit hours or more).....	\$85.00
PART-TIME STUDENTS AND AUDITORS	
(for 6 credit hours or less)—per credit hour (minimum \$21).....	\$10.50
1 credit hour.....	\$21.00
2 credit hours.....	21.00
3 credit hours.....	31.50
4 credit hours.....	42.00
5 credit hours.....	52.50
6 credit hours.....	63.00

For noncredit college preparatory courses, charges shall be based upon units of time spent in class each week on a basis equivalent to \$10.50 per credit hour.

SHORT COURSES AND WORKSHOPS—Follow above schedule according to credit-hour load.

STAFF FEES—Academic staff members with .50 FTE or more, but less than 1.00 FTE, may take a maximum of 10 credit hours. Full-time staff members, both academic and non-academic, may not register for more than one course, whether they register for credit or as auditors, and that one course may not carry more than 5 credit hours. This limitation applies whether staff or regular fees are paid.

Fees for staff members in the categories above, taking a course for credit, per credit hour.....\$3.00

No fees are charged staff members in these categories who audit a course.

SPECIAL FEES—Late registration full-time students (due after third day of a session), per day (not applicable to short courses).....\$1.00

If institutional charges are met by a check which is returned because of any irregularity for which the student is responsible (NSF, illegible signature, improper bank account number, etc.), a fine of \$1.00 per business day will be charged (maximum penalty, \$5.00).

The State Board of Higher Education reserves the right to change the schedule of fees without notice.

NOTE: \$85.00 covers all courses of the 8-week summer session, including all short courses begun prior to or within that period and completed by the end of the 8 weeks. For post-session courses which end after regular session, students will be charged at the rate of the part-time fee, \$10.50 per credit hour.

Fee Refunds

Students whose official withdrawal from summer session has been completed in the Registrar's Office may be entitled to certain refunds of registration fees paid. *Refunds in all cases are calculated from June 20 to the date of application for the refund and not from the date the student may have registered or may have ceased attending classes. Claims for refunds must be made in writing.*

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.

A student who has a library card issued during the regular academic year should use this same card during the Summer Session. This card will be validated for Summer Session use upon presentation of the student's tuition receipt.

The following regulations govern library fines and charges:

1. A fine of 5 cents per day is charged for all overdue books other than reserve books.

2. The following fines are charged for violation of rules governing reserve books and material circulated by special permission: (a) For overdue books, a regular fine of 25 cents for the first hour and 5 cents for each succeeding hour, or fraction thereof, until the book is returned or reported lost. A maximum charge of \$1.00 per hour may be made in cases of flagrant violation of the rule. (b) For failure to return books to proper department desks, a fine of 25 cents is levied.

3. Books needed for use in the library are subject to recall at any time. A maximum fine of \$1.00 a day may be imposed for failure to return promptly.

4. A service charge of 10 cents is added to all fines reported to the business office for collection.

5. Borrowers losing books are 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 is made to cover the cost of cataloging and processing the replacement copy.

6. When a lost book, for which the borrower has been billed, is returned before a replacement has been ordered, a refund not exceeding the replacement cost plus the \$1.00 cataloging and processing charge may be made at the discretion of the librarian.

7. Borrowers are issued a library card for use in the charge-out machine. A replacement fee of 25 cents is charged if this card is lost, or is not returned when student withdraws during a term.

General Services

Libraries: The new Portland Summer Session Library, located on S.W. Broadway at Montgomery St., will be open from 7:30 a.m.-4:30 p.m. Monday through Friday. *Tuesday and Thursday evenings only*, services on the ground floor will be in operation from 5:30-8:30 p.m.

Entrance to the library is off the concourse which extends from the middle of the block on Broadway to the College Center. Entrance to the Audio-Visual Department is not through the library proper, but down a stairway off the concourse.

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

Students and faculty may use the College Center cafeteria and snack bar, and the 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.-8:30 p.m. Monday through Thursday, and until 4:30 p.m. on Friday. Additional facilities

now under construction include an enlargement of the cafeteria, a browsing library, a bowling alley, meeting rooms, and a ballroom. College Center facilities are financed through student fees and are for the use and enjoyment of all summer session as well as regular term students.

The Summer Session recreational program, coordinated by College Center staff, will offer summer students information or assistance in taking advantage of the many and varied recreational opportunities to be found in and conveniently near Portland.

Textbooks and Supplies: All required texts and supplies may be purchased from the Cooperative Bookstore located in the College Center building.

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.

Housing: Portland Summer Session has no housing of its own, but an effort will be made to find accommodations for both faculty and students. Requests should be addressed to John F. Jenkins, 1620 S. W. Park Ave., Portland 1, Ore.

Assemblies: Each Wednesday from 10:00 to 10:50 a.m. an assembly is scheduled in the auditorium. (Classes scheduled for this day and hour will meet as usual, unless instructors feel that the program is relevant to the class work.)

Recreation: Summer Session students may enjoy the varied recreational facilities of the Portland metropolitan area. Conveniently located parks and playgrounds, swimming pools, golf courses and tennis courts, theaters and musical events, Portland Art Museum, and excellent library services are available. In addition, Portland offers easy access to the beautiful beaches of the famed Oregon coast, and to alpine resorts in the surrounding mountain ranges. A summer session recreational program, including organized trips and other activities, will be directed by the College Center staff.

1960 Portland Summer Session

Description of Courses

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 500-599. 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. Numbers less than 50 indicate non-credit courses.

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

Anthropology

Faculty: NEWMAN.

- (P) Anth 207. **Introduction to Cultural Anthropology.** (First Term). 3 hours.
The meaning of culture; its significance for human beings; its diverse forms and degrees of elaboration among different groups of men; its process of growth and expansion. MWThF, 9:00, Room 101 SH.
- (P) Anth 307. **Peoples and Cultures of the World.** (First Term). 3 hours.
Origin, description and analysis of the cultures and societies of selected areas of the world: Asia, Africa, and Oceania. MTuThF, 10:00, Room 101 SH.
- (U) Anth 414. **Race and Culture.** (G) 3 hours.
Racial classifications and comparisons; the biological base of culture; attitudes toward race in human relations; consideration of problems of racial conflict in the United States and elsewhere. Prerequisite: 9 hours in anthropology or consent of instructor. MW, 8:00 to 10:00 evening. Room 201 SH.

Art

Faculty: CAPONIGRO, COLESCOTT, COMFORT, MORTON, MULLER, PICKENS, PRASCH, RUSSO, SHORES, WHITE.

- (P) AA 195. **Basic Design.** (First Term). 2 hours.
An introductory course; a series of studio participation exercises involving the basic principles of design. Prsch. MWF, 11:00, Room 317 OM.

- (P) AA 217. **Lettering.** 1 hour.
Lettering, including a study of historic styles and of more recent adaptations of "built up" letter forms in contemporary use. Muller. TuTh, 8:00, Room 317 OM.
- (P) AA 255. **Ceramics.** 3 hours.
(June 20-July 29.) 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. Course fee \$20.00 in addition to registration fee. Shores. MTuWTh, 1:00 to 4:00, Art Museum.
- (P) AA 257. **Jewelry and Metalsmithing.** 3 hours.
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. Morton. MWThF, 9:00, Room 317 OM.
- (P) AA 290. **Painting.** 3 hours.
(June 20-July 29.) Instruction in the use of oil color, water color, and other media. Course fee \$7.50 in addition to registration fee. Section I: Russo. MTuWTh, 9:00 to 12:00, Art Museum.
- (P) AA 290. **Painting.** 2-3 hours.
Instruction in the use of oil color, water color, and other media. Section II: Prasch. TuTh, 8:00 to 10:00 evening. Room 303 SH.
- (P) AA 295. **Display Design.** 2-3 hours.
Practical design experience in the fundamentals of applied commercial art, lettering, layout, packaging, and display advertising. Experimental thinking and original ideas are encouraged in the development of problems. Muller. MTuThF, 10:00, Room 317 OM.
- (P) AA 311, 312, 313. **Creative Arts and Crafts for the Classroom Teacher.** 3 hours each.
Art activities for the classroom teacher. Basic tools and materials. Planning the art program to meet the needs of the child. Art in the school curriculum. Art experiences in relation to child growth and development. Lectures and laboratory work. Prerequisites for AA 313 are AA 311 and 312.
AA 311. Colescott. MWThF, 9:00, Room 319 OM.
AA 312. Section I: Colescott. TuWThF, 8:00, Room 319 OM.
AA 312. Section II: Comfort. MTuWTh, 12:00, Room 319 OM.
AA 313. Section I: Colescott. MTuWF, 11:00, Room 319 OM.
AA 313. Section II: Comfort. TuWThF, 1:00, Room 319 OM.
- (P) AA 365. **Introduction to the History of Art.** (Third Term). 3 hours.
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. Muller. TuTh, 6:00 to 8:00 evening, Room 303 SH.
- (U) AA 390. **Painting.** 2-4 hours.
Third-year painting. Still life, figure, portrait, and landscape; pattern and space organization; color and design studies; various media and processes. Prerequisite: 9 hours in AA 290. Prasch. Daily, 12:00, Room 317 OM.
- (P) AA 401. **Special Studies.** Hours to be arranged. Staff.

- (P) AA 401. **Special Studies: Beginning Photography Workshop.** 2 hours.
White, Caponigro. (See Workshops, page 53.)
- (U) ArE 401. **Special Studies: Arts and Crafts for Teachers.** 3 hours.
Pickens. (See Workshops, page 53.)
- (U) AA 501. **Special Studies: Advanced Photography Workshop.** 4 hours.
White, Caponigro. (See Workshops, page 53.)
- (U) ArE 501. **Special Studies: Arts and Crafts for Teachers.** 3 hours.
Pickens. (See Workshops, page 53.)

Business Administration

Faculty: BOYD, DAVIS, DEHNER, DODGE, HINDS, MARTINI, ZIEBARTH.

- (P) BA 111, 112, 113. **Constructive Accounting.** 3 hours each.
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.
BA 111. June 20-July 7. Section I: Hinds. TuWThF, 8:00-11:00. Room 145 SH.
BA 111. June 20-August 12. Section II: Boyd. MW, 6:00 to 8:00, evening, Room 101 SH.
BA 112. July 8-July 26. Hinds. TuWThF, 8:00-11:00, Room 145 SH.
BA 113. July 27-August 12. Hinds. TuWThF, 8:00-11:00, Room 145 SH.
- (P) BA 121. **Introduction to Business and Industry.** 3 hours.
Survey of business organization, operation, and management intended to orient the student in business and industry. Dodge. MTuWTh, 12:00, Room 147 SH.
- (P) BA 222. **Elements of Finance.** 3 hours.
The financial problems of corporations. Organization of corporations; how they obtain long-term funds; management of working capital; distribution of securities. Required of all majors. Prerequisite: BA 111, 112, 113. Boyd. MTuWF, 11:00, Room 145 SH.
- (P) BA 223. **Elements of Marketing.** 3 hours.
Methods, policies, and problems. Private and cooperative channels, auctions, exchanges, middlemen; demand creation, assembly, standardization, packaging, financing, risk taking, distribution. Required of business administration majors. Dodge. TuTh, 6:00 to 8:00, evening, Room 101 SH.
- (P) BA 238. **Salesmanship.** 3 hours.
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. Dodge. MuTThF, 3:00, Room 145 SH.
- (P) BA 314. **Principles of Cost Accounting.** 3 hours.
Basic principles of cost measurements and reporting for management planning, policy, and control purposes. Methods of data accumulation and control of materials, labor and indirect costs. Job and process cost systems. Overhead budgeting; departmentalization; fixed and variable cost concepts. Prerequisite: BA 113. Boyd. MTuWTh, 12:00, Room 145 SH.
- (U) MPM 321. **Organization and Interpersonal Relations.** 5 hours.
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. Martini. MW, 6:00 to 9:30, evening, Room 245 SH.

(P) BA 359. **Finance Management.** 3 hours.

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. Dehner. MTuWF, 11:00, Room 147 SH.

(U) MPM 429. **Production Management.** (G) 5 hours.

Methods and control systems in production operation; maintenance, layout, job evaluation, wage incentives, output standards, quality control, inventory, and production control. Martini. TuTh, 6:00 to 9:30, evening, Room 425 SH..

(U) MPM 453. **Business Policies.** (G) 5 hours.

The interdependence of the different departments of a business concern. Designed to provide an integrated view of business operations, and to coordinate the more specialized instruction of the school. Prerequisite: senior standing. Ziebarth. TuTh, 6:00 to 9:30, evening, Room 345 SH.

(U) FBE 463. **Investments.** (G) (First Term). 3 hours.

Methods for evaluating various kinds of investment securities; formulation of an investment policy. Detailed study of the special phases of investments, including taxation, brokerage services, and security markets. Application of investment principles to the analysis of specific securities. Dehner. MW, 6:00 to 8:00, evening, Room 247 SH.

(U) FBE 466. **Business Cycles.** (G) 3 hours.

Analysis of forces that cause pervasive fluctuations in aggregate business activity; the effects of these fluctuations on individual business firms and industries; the relationships among long-run trends and shorter cycles; evaluation of forecasting techniques and policy measures designed to prepare individuals to perform successfully in a dynamic environment of constant change. Dehner. MW, 8:00 to 10:00, evening, Room 247 SH.

(S) BA 497. **Human Relations in Business and Industry.** (g) 3 hours.

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. Davis, MW, 6:00 to 8:00, evening, Room 149 SH.

See the following listed under **SECRETARIAL SCIENCE:**

(P) SS 111. **Stenography.** 3 hours. Backlund.

(P) SS 121, 122. **Typing.** 2 hours each. Backlund.

(S) BEd 507. **Seminar: Practicum in Business Education.** 3 hours. Yerian.

Driver Education

Faculty: EALES, URLAUB.

(S) IE 412. **Driver Education and Training.** 3 hours.

(August 15-26.) A basic course for preparation of teachers to conduct driver-training courses in high schools. Actual behind-the-wheel instruction in a dual-control car supplied under the sponsorship of the American Automobile Association and the State Department of Education. Prerequisite: senior or graduate

standing and teaching experience. Eales. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 101 SH.

(S) IE 507. **Seminar: Advanced Course in Driver Education.** 3 hours.

(August 15-26.) Designed especially for individuals who have completed the basic course and wish advanced training. Prerequisite: IE 412 and at least one year of teaching experience in driver-training instruction or consent of instructor. Urlaub. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 103 SH.

Economics

Faculty: BLUMEL, HALLEY, HUMMEL, LOVELL, SMITH.

(P) Ec 201, 203. **Principles of Economics.** (First and Third Terms). 3 hours each.

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

Ec 201. Lovell. MWThF, 9:00, Room 147 SH.

Ec 203. Blumel. TuWThF, 1:00, Room 145 SH.

(U) Ec 318. **Money and Banking.** 3 hours.

Operations of commercial banks, the Federal Reserve System, and the Treasury that affect the United States monetary system. Prerequisite: Ec 201, 202, 203 or consent of instructor. Blumel. MWThF, 2:00, Room 145 SH.

(P) Ec 334. **Government Control of Private Business.** 3 hours.

Survey of government regulation of business in the United States; historical development, present scope, economic and philosophical bases. Prerequisite: Ec 201, 202, 203. Halley. MW, 6:00 to 8:00, evening, Room 249 SH.

(U) Ec 407. **Seminar: Economic Problems.** (g) 6 hours.

Hummel, Halley, Smith and staff.) See Workshops, Ed 508, Workshop: Economic Education, page 53.)

(U) Ec 415. **Economy of the Pacific Northwest.** (G) 3 hours.

Changes in and sources of personal income in the Pacific Northwest; industrial basis of the regional product; balance of payments; development of wood products. Prerequisite: Ec 201, 202, 203. Halley. MW, 8:00 to 10:00 evening, Room 249 SH.

(P) Ec 440. **International Economics.** (First Term). 3 hours.

Theory of international trade tariffs and other policies; international monetary relationship, capital movements, problems of balance of payments adjustment, and international organizations. Prerequisite: Ec 201, 202, 203. Blumel. TuTh, 8:00 to 10:00 evening, Room 249 SH.

Education

Faculty: BEASLEY, BERNARD, BIERMAN, BINGHAM, BOYD, BROOKE, BROWNE, BRUNER, BUELKE, CLAYTON, CODY, COMFORT, CRAMER, DART, DEAN, FERRIER, FULLMER, GREENE, GUSTAFSON, HAAS, HALLEY, HITCHCOCK, HOLBOKE, HOPSON, HUELS-MAN, HUMMEL, INGEBO, JONES, KOLSON, LEAVITT, LEESE, LILLYWHITE, LYMAN, McNALLY, McQUAIG, MALTER, MEINDL, MORRISON, MOSHER (H.), MOSHER (L.), OLIVER, OWEN, PAREIS, PETERSEN, PHELPS, PICKENS, PIERSON, POWLOSKI, RUDDELL, SCHMIDT, SCHULZ, SHAFFER, SMITH, SWENSON, TAYLOR (E.), TAYLOR (L.), TEN PAS, TICHY, WATSON, WESLEY, WILLIAMS, WILSON, WOLF, YOST.

(Education courses begin on following page.)

(P) Ed 111. Orientation to Teaching. 3 hours.

This course is intended to assist prospective teachers to make effective adjustments to college and social needs through acquainting them with methods of study, use of library, time budgeting, and social and recreational opportunities. It will also provide opportunity for becoming acquainted with the demands and rewards of the teaching profession. Tests will be given in order that each student may understand how nearly his speech, hearing, vision, and personality fit him for teaching. Cramer. MWThF, 9:00, Room 120 OM.

(P) Ed 310. School in American Life. 3 hours.

A course designed to acquaint prospective teachers with the historical and philosophical background and development of the American public school. Special attention will be given to the development of the present day curricular practices and a comparison of opposing philosophies of education. In this course attention will be devoted to Oregon School Law and System of Education.

Section I: Ferrier. MTuWTh, 12:00, Room 214 OM.

Section II: Ten Pas. MTuWF, 11:00, Room 214 OM.

Section III: Ferrier. MWThF, 9:00, Room 103 OM.

(P) Psy 311. Human Development. 3 hours.

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.

Section I: Wesley. TuWThF, 1:00, Room 103 OM.

Section II: Wilson. TuWThF, 8:00, Room 101 OM.

Section III: Powloski. MW, 8:00 to 10:00 evening, Room 303 SH.

(P) Ed 312. Educational Psychology: Learning. 3 hours.

A consideration of the nature of the learner, changes which occur in learning processes, conditions under which learning best takes place, and the characteristics and methods of the teacher who directs learning in the school. Basic concepts of measurements are utilized to evaluate the changes which characterize learning. Field experiences supplement theoretical study. Prerequisite: Psy 201, 202. Malter.

Section I: MTuWF, 11:00, Room 225 SH.

Section II: TuWThF, 8:00, Room 228 SH.

(P) Ed 314. Principles of Secondary Teaching. 3 hours.

Different methods of presentation of subject-matter; values and weaknesses of each method; individual and group differences; extra-curricular activity programs; measuring the results of teaching. Prerequisite: Ed 310, 312. Wolf. TuWThF, 8:00, Room 214 OM.

(P) Ed 344. Physical Education in the Grades. 3 hours.

Theory and practice in rhythm; singing games, group and folk dancing; stunts, games, self-testing activities, tumbling; materials; planning and evaluating programs with reference to basic principles of physical education. Tichy. TuWThF, 8:00, Gym.

(P) Ed 351. Health Education. 3 hours.

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. McNally. TuWThF, 8:00, Room 213 OM.

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

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

Section I: Bingham. TuWThF, 8:00, Room 207 OM.

Section II: Holboke. MWThF, 2:00, Room 207 OM.

Section III: Holboke. MTuWTh, 12:00, Room 207 OM.

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

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.

Section I: Mosher (L.). MTuThF, 10:00, Room 208 OM.

Section II: Mosher (L.) MTuWTh, 12:00, Room 208 OM.

Section III: Holboke. MTuWF, 11:00, Room 208 OM.

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

Science and mathematics in the elementary schools. Methods in the area of science, including experiments, demonstrations, trips, and instructional materials. Trends and practices in the teaching of mathematics. Emphasis will be placed upon basic principles, research studies, problem solving, and the utilization of life situations. Prerequisite: Ed 310, 312, and Psy 311.

Section I: Yost. TuWThF, 1:00, Room 207 OM.

Section II: Owen. MTuWF, 11:00 Room 207 OM.

Section III: Owen. MWThF, 9:00, Room 207 OM.

(P) Eng 388. Children's Literature and Library. 3 hours.

An introductory course designed to give acquaintance with some significant books for children, with emphasis on the quality of a book; its format, text, and illustrations. An investigation of school library procedures with suggestions for the presentation of children's literature in the elementary school. Petersen. MWThF, 9:00, Room 208 OM.

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

An introduction to the collection of old folk and modern fanciful tales, with laboratory practice in the reading and telling of stories for children through the elementary grades. Prerequisite: Eng 388 or consent of instructor. Petersen. TuWThF, 1:00, Room 208 OM.

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

A study of the enrichment of children's reading through literature. An advanced course designed for parents and teachers of nursery, kindergarten, and elementary school children. Prerequisite: Eng 388 or consent of instructor. Petersen. MWThF, 2:00, Room 208 OM.

(P) Ed 401. Research. Hours to be arranged.**(U) ArE 401. Special Studies: Arts and Crafts for Teachers.** 3 hours.

Pickens. (See Workshops, page 53.)

(S) Ed 407. Seminar: Workshop in Advanced Conservation Education. 2 hours.

Brooks, Dart and special staff. (See Workshops, page 53.)

- (S) Ed 407. **Seminar: Workshop in Conservation Education.** 2 hours.
Hopson, Dart and special staff. (See Workshops, page 53.)
- (P) Ed 407. **Seminar: Teaching Methods in Arithmetic.** 3 hours.
Surveys current materials and methods. Emphasizes design and development of inexpensive manipulative devices for use in teaching arithmetical processes from primary grades to high school. Owen. TuWThF, 8:00, Room 215 OM.
- (U) Ed 409. **School Psychology Practicum.** (G) Hours to be arranged.
Emotionally Disturbed Practicum: Boyd.
Counseling Practicum: Fullmer.
Reading Practicum: Kolson, Clayton, Phelps.
Speech Practicum: Lillywhite.
- (C) Ed 410. **Methods and Research Materials.** (G) 3 hours.
Problems and methods in selecting and organizing materials for teaching. Emphasis for graduate students will be placed upon recent research and literature dealing with instructional materials, methods and facilities, including the completion of a special project. Maximum 6 hours undergraduate and 9 hours graduate credit may be earned in Ed 410 courses. Students may not enroll for more than three hours credit in any one area during the summer session. Students must indicate at the time of registration whether level of study is elementary or secondary.
Language Arts: Phelps. MTuWTh, 12:00, Room 228 SH.
Social Studies: Buelke. MTuWF, 11:00, Room 213 OM.
Reading: Bingham. MTuThF, 10:00, Room 207 OM.
Arithmetic: Mosher (H.). MTuWTh, 12:00, Room 213 OM.
Music: Gustafson. MTuWF, 11:00, Room 349 SH.
- (C) Ed 410. **Methods and Research Materials: Art.** (G) 3 hours.
Laboratory work for classroom teachers and experienced art teachers; to examine contemporary teaching practices and philosophy of art education and to develop new uses for experimental materials through personal exploration. These activities will provide experienced art teachers with a basis for an expanded philosophy of education through art; they will enable classroom teachers to make greater contributions toward the growth of the art curriculum in their schools. Comfort. MTuThF, 10:00, Room 319 OM.
- (C) Ed 410. **Methods and Research Materials: Elementary School Science.** (G) 3 hours.
Leavitt, Yost. (See Workshops, page 53.)
- (P) Ed 414. **Student Teaching: Kindergarten.** 3-9 hours.
Observation and teaching under the direction of a supervising teacher. Students will be provided with opportunities for assuming direct responsibility for the learning activities of children, for developing skill in the techniques of teaching and schoolroom management, and for participating in the life of the school. Prerequisite: Completion of general and professional courses leading to third year standing and Ed 451. Admission by application only. Leavitt. Time to be arranged. Shattuck School, 1914 S. W. Park Ave., Portland.
- (P) Ed 415. **Student Teaching: Elementary.** 3 or 6 hours.
Observation and teaching under the direction of a supervising teacher. Students will be provided with opportunities for assuming direct responsibility for the learning activities of children, for developing skill in the techniques of teaching and schoolroom management, and related professional activities normally assumed by regularly employed teachers. Weekly seminar. Prerequisites: Psy 311, Ed 310, Ed 312, 9 hours of methods courses including reading, adequate background in

- subject areas. Admission by application only. A limited number of local residents who are graduates of three- and four-year teacher education programs can be accommodated. Applications must be submitted in advance to Dr. Ray O. Wolf, Portland Summer Session. Bruner. Daily, as arranged, and Thursday, 2:00 to 4:00, Shattuck School, 1914 S. W. Park Ave., Portland.
- (P) Ed 416. **Student Teaching: Secondary.** 9 hours.
Observation and teaching under the direction of a supervising teacher. Students will be provided with opportunities for assuming direct responsibility for the learning activities of children, for developing skill in the techniques of teaching and schoolroom management, and for participating in the life of the school. Prerequisite: Completion of general and professional courses leading to third year standing. Admission by application only. Wolf, Browne, McQuaig. Seminar: TuTh, 2:00 to 4:00, Lincoln High School, 1600 S. W. Salmon, Portland.
- (C) Ed 424. **Measurement in Education.** (G) 3 hours.
Use and interpretation of informal and standardized tests as supervisory and guidance instruments for the diagnosis, analysis, evaluation, and improvement of instruction in the elementary and secondary schools. Test planning, item writing, essay testing, administration and scoring, analysis of scores and grade assignment. Simple statistics of test interpretation.
Section I: Mosher (H.). MTuThF, 10:00, Room 104 OM.
Section II: Ingebo. MWThF, 9:00, Room 104 OM.
- (S) Ed 435. **Audio-Visual Aids.** (G) 3 hours.
Film, slide, chart, and other visual materials; selection and use to best advantage; operation of projectors and other equipment. Prerequisite: senior standing or consent of instructor.
Section I: Malter. MWThF, 9:00, Room 215 OM.
Section II: Shaffer. MTuThF, 10:00, Room 215 OM.
- (C) Ed 451. **Preprimary Education.** (G) 3 hours.
An evaluation of the preprimary period in terms of the opportunities it affords to build up good attitudes toward school life, to help the child adjust himself to the group, to build up good habits of work, and to develop a readiness for subjects in the first-grade curriculum, such as reading, numbers, and language. Bingham. MTuWF, 11:00, Room 120 OM.
- (U) Psy 460. **Developmental Psychology I: Infancy and Childhood.** 3 hours.
(See Psy 461.)
- (U) Psy 461. **Developmental Psychology II: Adolescence and Maturity.** (g) 3 hours.
Development of behavior and psychological activity through the prenatal period, infancy, childhood, adolescence, maturity, and old age. Changes of intelligence, motor capacity, emotional response, language, and social behavior. Emphasis on social influence. Lyman.
Psy 460. MWThF, 9:00, Room 110 OM.
Psy 461. MTuThF, 10:00, Room 110 OM.
- (U) Ed 462. **Psychology of Exceptional Children.** (G) 3 hours.
Survey of characteristics and problems of all types of exceptional children, with special emphasis on those with sensory handicaps; consideration of essential educational adaptations. Taylor (E.). MTuWTh, 12:00, Room 103 OM.
- (U) Ed 463. **The Maladjusted Child.** (G) 3 hours.
The discovery and treatment of the emotionally and socially maladjusted child;

- the home, school, and community in relation to the child's mental health. Bernard. MWThF, 9:00, Room 225 SH.
- (U) Ed 464. **The Mentally Retarded Child.** (G) 3 hours.
Survey of types and characteristics of mental retardation. Identification, classification and diagnosis for educational programming. Educational implications for educable mentally retarded children. This course is coordinated with other offerings of the **Certification Program for Teachers of Mentally Retarded Learners.** Schmidt. TuWThF, 8:00, Room 120 OM.
- (U) Ed 465. **Diagnostic and Corrective Techniques in the Basic Skills.** 3 hours. (See Ed 468.)
- (U) Ed 466. **The Gifted Child.** (G) 3 hours.
(June 20-July 15.) The psychology of education, and guidance of the intellectually gifted and artistically talented child. Students wishing to register for this course will be required to register also for Ed 508 Workshop: Education of the Gifted Child, 3 hours (for a total registration of 6 hours). Wilson, Williams. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 271. SH. (See Workshops, page 53.)
- (C) Ed 467. **Applied Mental Hygiene.** (G) 3 hours.
A study of the development of personality, personality conflicts, mechanisms of adjustment, and the basic principles of mental hygiene. Emphasis is placed on application of mental hygiene principles to personality development of teachers and of children. Prerequisite: Psy 201, 202. Pareis. MWThF, 2:00, Room 101 OM.
- (C) Ed 468. **Diagnostic and Remedial Instruction in Reading.** (G) 3 hours.
Opportunity for experienced teachers to consider the typical causes of difficulty in the reading program and to evaluate procedures to be used in remedial classes, by means of lectures, demonstrations, readings, and case studies. Kolson. MTuThF, 10:00, Room 224 SH.
- (C) Ed 472. **Principles and Practices in Curriculum Construction.** (G) 3 hours. (See Ed 566.)
- (C) Ed 473. **Administration of the Elementary School.** (G) 3 hours. (See Ed 554.)
- (C) Ed 474. **Supervision of the Elementary School.** (G) 3 hours. (See Ed 574.)
- (S) Ed 476. **School Law and Organization.** (G) 3 hours.
Oregon school system and laws on which it is based; problems of Oregon schools; plans for solution; course of study; trends in educational development. Prerequisite: junior standing. Meindl. TuWF, 8:00, Room 103 OM.
- (U) Ed 480. **Psychology of Reading Instruction.** (G) 3 hours.
The fundamental nature of the reading process; principles of growth, adjustment, and learning basic to reading achievement; psychological foundations of methods of reading instruction. Phelps. TuWThF, 8:00, Room 105 OM.
- (C) Ed 484. **The Junior High School.** (G) 3 hours.
Development of the junior high school; its purposes and objectives. The general organization of the school; courses of study; present practices in leading representative junior high schools, the direction of classroom activities; provision for individual differences; pupil guidance and socialization. Leese. MWThF, 2:00, Room 104 OM.
- (S) Ed 485. **Principles and Practices of Guidance Services.** (G) 3 hours.
Beginning course in guidance. Overview of guidance and personnel work; voca-

- tional, 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. Hitchcock. TuWThF, 8:00, Room 224 SH.
- (S) Ed 486. **Occupational and Educational Information.** (G) 3 hours.
Materials available regarding occupations; interpretations of present trends; value and usefulness for high school and college students. Prerequisite: senior standing. Hitchcock. MWThF, 9:00, Room 224 SH.
- (S) Ed 487. **Counseling Techniques.** (G) 3 hours.
Mental, achievement, trade and other tests; administration of such tests; classification, methods in educational and vocational counseling. Prerequisite: Ed 485. Pierson. MWThF, 9:00, Room 196 SH.
- (C) Ed 493. **Observation and Evaluation of Teaching.** 1-3 hours.
Opportunity for experienced teachers to observe modern trends in education as demonstrated in the elementary schools and to discuss educational practices and theories. Weekly seminar. A limited number of applicants will be assigned to the few places available in this course. Selection will be made from written applications filed in advance with the Supervisor of Elementary Student Teachers, Portland Summer Session. Mosher (L.). TuWThF, 1:00, Room 213 OM.
- (U) ArE 501. **Special Studies: Arts and Crafts for Teachers.** 3 hours.
Pickens. (See Workshops, page 53.)
- (U) (S) Ed 501. **Research.** Authorization and hours to be arranged. Prerequisite: graduate standing.
- (U) (S) (C) Ed 503. **Thesis.** Authorization and hours to be arranged.
- (U) (S) Ed 505. **Reading and Conference.** Authorization and hours to be arranged. Maximum of 6 hours.
- (C) Ed 506. **Special Individual Studies.** Authorization and hours to be arranged. Maximum of 6 hours
- (U) Ed 507. **Seminar: Contemporary Development of British Education at the Lower-School Level.** 3 hours.
Contemporary trends in England at the grammar and preparatory school level. Comparison of British and American lower-school educational philosophy, techniques and programs. Beasley. MTuWTh, 12:00, Room 121 OM.
- (U) Ed 507. **Seminar: Education in Under-Developed Countries.** 3 hours.
The growth of education in certain under-developed countries from 1900 to 1956. The working of certain aspects of education such as supply and training of teachers, the contents of the curriculum, and the difficulties and successes of establishing schools will be dealt with on a comparative basis. Beasley. MTuWF, 11:00, Room 104 OM.
- (U) Ed 507. **Seminar: Relationship of Some Recent Developments in the Behavioral and Natural Sciences.** 6 hours.
A panel of visiting and resident instructors and special lecturers will discuss concepts from various disciplines and their relationships to contemporary issues. Sessions will be devoted to presentation and general discussion. The student will be responsible for a project—applying concepts to problems in his special field. Watson, Dean, Greene. TuWThF, 1:00 to 3:00, Room 111 OM.
- (U) Ed 507. **Seminar: Comparative Education.** 3 hours.
A comparative study of modern school systems. Descriptive treatment of some important school systems, such as England, France, Russia, Germany, Japan,

Canada, Australia, and the United States. Comparisons of organization, administration, curriculum, philosophy of education and teaching methods. Discussions of the variety of answers different peoples find to questions of universal importance in education. Cramer, MTuThF, 10:00, Room 120 OM.

- (U) Ed 507. **Seminar: Materials and Devices in the Teaching of Science.** 3 hours.
A seminar to help teachers in the construction and use of science equipment and materials such as weather instruments, electrical equipment and aquariums. Emphasis will be placed on materials which can be found in the home and community or inexpensively purchased. Yost. MWThF, 2:00, Room 213 OM
- (U) Ed 507. **Seminar: Reading and Telling Children's Stories.** 3 hours.
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. Registration only by signature of instructor. Petersen. TuWThF, 1:00, Room 208 OM.
- (U) Ed 507. **Seminar: Recent Research in Reading.** 3 hours.
Huelsen, Kolson. (See Workshops, page 53.)
- (U) Ed 508. **Workshop in Children's Literature.** 3 hours.
A study of the enrichment of children's reading through literature. An advanced course designed for parents and teachers of nursery, kindergarten, and elementary school children. Prerequisite: Eng 388 or consent of instructor. Petersen. MWThF, 2:00, Room 208 OM.
- (U) Ed 508. **Workshop: Education of The Gifted Child.** 3 or 6 hours.
Wilson, Williams. (See Workshops, page 53.)
- (U) Ed 508. **Workshop: Economic Education.** 6 hours.
Hummel, Halley, Smith and staff. (See Workshops, page 53.)
- (U) Ed 508. **Workshop: Bill of Rights Education.** 6 hours.
Bierman. (See Workshops, page 53.)
- (U) Ed 508. **Workshop: Conservation Education for Elementary School Principals.** 2 hours.
Hopson, Leavitt. (See Workshops, page 53.)
- (U) Ed 508. **Workshop: Advanced Conservation Education.** 2 hours.
Brooks, Dart and special staff. (See Workshops, page 53.)
- (U) Ed 508. **Workshop: Conservation Education.** 2 hours.
Hopson, Dart and special staff. (See Workshops, page 53.)
- (U) Ed 508. **Workshop: Air and Space Education.** 6 hours.
Haas, Ferrier, Cody and special staff. (See Workshops, page 53.)
- (U) Ed 508. **Workshop: Educational Television.** 3 hours.
Swenson, Shaffer. (See Workshops, page 53.)
- (U) Ed 508. **Workshop: Adolescent Problems.** 3 hours.
Schulz, Morrison. (See Workshops, page 53.)
- (U) Ed 508. **Workshop: Arithmetic.** 3 hours.
Ruddell. (See Workshops, page 53.)
- (U) Ed 509. **School Psychology Practicum.** Hours to be arranged.
High School Counseling: Enrollment by prior application only. Fullmer.
Clinical Procedures: Supervised individual casework with children who have

learning or behavior problems in the school. Training in interviewing, psychological evaluation, prognosis and treatment procedures. Enrollment limited to those with sufficient education and/or experience background. Prerequisite: consent of instructor. Boyd.

- (S) (C) Ed 512. **Research Procedures in Education.** 3 hours.
Methods, techniques, and tools for doing research work; meaning of scientific method; ways of locating and formulating problems; techniques for solving problems; necessary statistical tools; collection and interpretation of data; preparation of research reports. Mosher (H.). MWThF, 9:00, Room 105 OM.
- (S) Ed 522. **Secondary-School Curriculum.** 3 hours.
Advanced course for experienced teachers. Schools in the community; guidance activities in school; extra class activities; role of school in contemporary society; teacher in local community. Prerequisite: graduate standing in education. Leese. TuWThF, 1:00, Room 104 OM.
- (U) Ed 525. **Theory and Techniques of Educational Measurement.** 3 hours.
Intensive study of the theoretical bases and principles of educational measurement; item writing, try-out, selection and revision, reproduction and administration; nature of measurement; units and norms; reliability and validity; batteries and profiles; local and wide-scale testing programs. Designed primarily for advanced students in educational psychology and human development. Prerequisite: Ed 424, Ed 515, or equivalent. Ingebo. TuWThF, 8:00, Room 104 OM.
- (U) Ed 526. **High-School Counseling.** 3 hours.
(See Ed 489.)
- (U) Ed 528. **Group Testing in Schools and Colleges.** 3 hours.
An intensive study of the purposes, uses, administration, scoring, and interpretation of group tests commonly used in public schools and colleges. Testing in the areas of achievement, aptitudes, interests, personality, etc. Designed primarily for advanced students in educational psychology, human development, psychometrics, and counseling. Prerequisite: Psy 421, Ed 525 concurrently. (Open only to Counseling Institute students.) Counseling Institute staff.
- (U) Ed 534. **Science in the Elementary School.** 3 hours.
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. Yost. MTuWF, 11:00, Room 228 SH.
- (U) Ed 535. **Social Studies in the Elementary School.** 3 hours.
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. For experienced elementary teachers. Buelke. MTuWF, 11:00, Room 213 OM.
- (U) Ed 536. **Language Arts in the Elementary School.** 3 hours.
The role of language arts in the elementary-school program; objectives; research findings on language development; the teaching of spelling, writing, and speaking-listening skills; newer instructional materials; testing and evaluation. Phelps. MTuWTh, 12:00, Room 228 SH.
- (U) Ed 537. **Reading in the Elementary School.** 3 hours.
Nature of the reading process, objectives, organization of a desirable reading program; reading readiness, reading skills; procedures and materials for developing children's reading abilities; methods of diagnosing difficulties and evaluating progress; research findings concerning the teaching of children to read. Bingham. MTuThF, 10:00, Room 207 OM.

- (U) Ed 538. **Mathematics in the Elementary School.** 3 hours.
Number abilities needed by children; research findings in mathematics education; designing number experiences; theories of teaching, desirable teaching procedures; selection and use of materials. Mosher (H.). MTuWTh, 12:00, Room 213 OM.
- (S) Ed 543. **History of American Education.** 3 hours.
Intellectual development of America with special reference to education. Prerequisite: graduate standing in education. Cramer. MTuWTh, 12:00, Room 113 OM.
- (S) Ed 546. **Philosophy of Education.** 3 hours.
Fundamental problems of education, with some attempt at their solution; meaning of philosophy; philosophy of education; value for teacher and administrator. Prerequisite: graduate standing in education. Ten Pas. MTuThF, 10:00, Room 214 OM.
- (U) Ed 553. **Elementary School Curriculum.** 3 hours.
A systematic study of the elementary-school curriculum, including pupil needs in everyday life situations, objectives, essentials of a good program, varying curriculum designs, organization of learning experiences, evaluation of learning and appraisal of newer curriculum practices. Buelke. MTuWTh, 12:00, Room 120 OM.
- (S) Ed 554. **Elementary School Supervision and Administration.** 3 hours.
(June 20-July 15.) Role, duties, needs, problems of supervision; evaluation and improvement of teaching-learning situation. Prerequisite: elementary certification, one year elementary teaching experience. Oliver. MWThF, 12:00 to 2:00, Room 215 OM.
- (S) Ed 561. **Advanced Educational Psychology.** 3 hours.
Experimental material that seems most useful and relevant to educational psychology. Prerequisite: graduate standing in education. Schulz. MTuThF, 10:00, Room 213 OM.
- (U) Ed 565. **Curriculum Foundations.** 3 hours.
Implications of basic social, philosophical, and psychological factors in curriculum planning and organization; historical background; techniques of curriculum planning. Ten Pas. TuWThF, 8:00, Room 113 OM.
- (U) Ed 566. **Curriculum Construction.** 3 hours.
Survey and appraisal of curricular patterns; state and city programs; courses of study in major subject areas; techniques of course-of-study planning. Leese. MTuWF, 11:00, Room 113 OM.
- (U) Ed 572. **Public School Administration.** 3 hours.
Interpersonal relationships in administration; school-board powers, duties, roles, relationships; the superintendency—roles, responsibilities, issues, problems; problems of staff personnel; student personnel problems at the local district level; problems and issues relating to the development of effective school-community relationships. Watson. MWThF, 9:00, Room 113 OM.
- (U) Ed 574. **School Supervision.** 3 hours.
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. Buelke. MWThF, 9:00, Room 102 OM.
- (U) Ed 575. **School Finance.** 3 hours.
The problems of school finance and business management; sources of school in-

- come; 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. Hummel. MTuWTh, 12:00, Room 347 SH.
- (S) Ed 588. **Supervised Counseling Techniques.** 3 hours.
(Open only to Counseling Institute students.) Counseling Institute staff.
- (S) Ed 589. **Organization and Administration of Guidance Services.** 3 hours.
(Open only to Counseling Institute students.) Counseling Institute staff.

Certification Program for Teachers of Mentally Retarded Learners

- (U) Ed 464. **The Mentally Retarded Child.** (G) 3 hours.
Survey of types and characteristics of mental retardation. Identification, classification and diagnosis for educational programming. Educational implications for educable mentally retarded children. Schmidt. TuWThF, 8:00, Room 120 OM.
- (U) Ed 507. **Seminar: Curriculum and Methods for Teaching Mentally Retarded.** 3 hours.
Basic organization of instructional program for education of mentally retarded. The nature and scope of educational experiences and opportunities essential for a well-rounded program. Organization and preparation of instructional materials, selection of equipment, records and reports, promotion of effective and professional public relationships, and other practical problems of organization and classroom management of mentally retarded pupils. Coordinated with Ed 508 Workshop: Laboratory Class for Mentally Retarded. Jones. MTuWTh, 11:00, Eliot School, 2231 N. Flint Ave., Portland.
- (U) Ed 507. **Seminar: Curriculum Workshop for Experienced Teachers of the Mentally Retarded.** 6 hours.
(June 20-July 15.) Offered in cooperation with the Oregon State Department of Education for the purpose of studying teaching methods and developing curriculum materials and instructional procedures as an initial step in the development of a curriculum guide for teachers of the mentally retarded. Open only to certified experienced teachers of the mentally retarded. Designed especially for teachers in the Oregon State reimbursed program of special classes. Jones. Daily, 8:00 to 12:00, Eliot School, 2231 N. Flint Ave., Portland.
- (U) Ed 507. **Seminar: Arts and Crafts in Special Education.** 3 hours.
Basic techniques, tools, and materials, and their application in the instruction of handicapped children. Major consideration will be given to the **Instructional Program for the Mentally Handicapped**. Schmidt. MTh, 1:00 to 4:00, Eliot School, 2231 N. Flint Ave., Portland.
- (U) Ed 508. **Workshop: Laboratory Class for the Mentally Retarded.** 3 hours.
Offers opportunity for observing an elementary class for mentally retarded children in operation and some opportunity for practice-teaching under supervision. Teachers enrolling in this course will be expected to assist the demonstration teacher and participate in the instruction. Must be taken concurrently with Ed 507 Education Seminar: Curriculum and Methods for Teaching Mentally Retarded. Taylor (L.). MW, 9:00 to 11:00; F, 10:00 to 12:00, Eliot School, 2231 N. Flint Ave., Portland.

English

Faculty: BOGGS, CLARKE, DAHLSTROM, FORD, CORRELL, HUGHES, JOHNSON,
LAIRD, LILL, NETBOY, O'DONNELL, OLIVER, PETERSEN, WILSON.

Writing

- (P) Wr 12. **Writers Conference.** (Fiction, Poetry, Juvenile Writing, Non-fiction.) Non-credit. Netboy and staff. (See Workshops, page 53.)
- (P) Wr 111, 112, 113. **English Composition.** 3 hours each.
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 111. Section I: Clarke. MTuWF, 11:00, Room 105 OM.
Wr 111. Section II: Boggs. TuTh, 8:00 to 10:00, evening, Room 103 SH.
Wr 111. Section III: Hughes. MTuThF, 10:00, Room 105 OM.
Wr 112. Johnson. MWThF, 2:00, Room 113 OM.
Wr 113. Section I: Clarke. MTuWTh, 12:00, Room 105 OM.
Wr 113. Section II: Hughes. TuTh, 6:00 to 8:00 evening, Room 224 SH.
- (P) Wr 214. **Business English.** 3 hours.
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. Clarke. MW, 6:00 to 8:00, evening, Room 103 SH.
- (U) Wr 411. **English Composition for Teachers.** (g) 3 hours.
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. Ford. MWThF, 2:00, Room 106 OM.

Literature

- (P) Eng 102. **Survey of English Literature.** (Second Term). 3 hours.
Milton to Byron. Lill. TuWThF, 1:00, Room 224 SH.
- (P) Eng 104, 105. **Appreciation of Literature.** (First and Second Terms). 3 hours each.
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 literature.
Eng 104. Ford. MTuWF, 11:00, Room 110 OM.
Eng 105. Johnson. MW, 6:00 to 8:00 evening, Room 345 SH.
- (P) Eng 107, 108, 109. **World Literature.** 3 hours each.
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 107. Boggs. TuWThF, 1:00, Room 106 OM.

Eng 108. O'Donnell. MW, 8:00 to 10:00 evening, Room 124 SH.
Eng 109. Oliver. MTuThF, 10:00, Room 221 SH.

- (P) Eng 203. **Shakespeare.** (Third Term). 3 hours.
Study of the important plays—comedies, histories, and tragedies. Lill. MW, 8:00 to 10:00 evening, Room 103 SH.
- (P) Eng 255. **Survey of American Literature.** (Third Term). 3 hours.
American literature from its beginning to the present day. Two consecutive terms will satisfy the high-school teaching requirement in English. Ford. MTuWTh, 12:00, Room 110 OM.
- (P) Eng 312. **Tragedy, Comedy, and Satire.** (Second Term). 3 hours.
Second Term: Comedy. The comic view in nondramatic forms, as well as in the stage tradition. Emphasis on English masters, but attention also to classical and continental writers. Principal theories of the comic and of the corresponding literary forms and types. Dahlstrom. TuTh, 6:00 to 8:00 evening, Room 221 SH.
- (P) Eng 371. **The Novel.** (First Term). 3 hours.
A general study of the novel as a literary type in relation to the epic and older narrative forms. Studies in the art of the novel as illustrated in the works of English, American, and continental masters. Traditions and experiments in the genre to be read and discussed against the cultural backgrounds which they represent. Prerequisite: one sequence in literature. Dahlstrom. MWThF, 2:00, Room 110 OM.
- (P) Eng 386. **Twentieth Century Literature.** (Third Term). 3 hours.
British and American literature since 1900. Johnson. TuWThF, 1:00, Room 113 OM.
- (P) Eng 388. **Children's Literature and Library.** 3 hours.
An introductory course designed to give acquaintance with some significant books for children, with emphasis on the quality of a book; its format, text, and illustrations. An investigation of school library procedures with suggestions for the presentation of children's literature in the elementary school. Petersen. MWThF, 9:00, Room 208 OM.
- (U) Eng 405. **Reading and Conference: (Fiction, Poetry, Juvenile Writing, Non-fiction).** 3 hours.
(August 1-12.) Admission by prior application only to Mr. Anthony Netboy, Portland Summer Session, 1633 S.W. Park Ave., Portland.
- (U) Eng 407. **Seminar in Special Authors.** (G) 3 hours.
Melville and Twain. Oliver. TuTh, 8:00 to 10:00 evening, Room 149 SH.
- (P) Eng 414. **Literary Criticism.** (First Term). 3 hours.
A study of the history, principles and practice of literary criticism. Prerequisite: 18 hours in literature or consent of instructor. Dahlstrom. TuWThF, 1:00, Rm. 110 OM.
- (U) Eng 432. **Literature of the Renaissance.** (G) (Third Term). 3 hours.
Third term: English lyric from Wyatt to Herrick. O'Donnell. MTuWTh, 12:00, Room 106 OM.
- (P) Eng 469. **Main Currents in American Literature and Culture.** (Third Term). 3 hours.
The Puritan and religious current, the Enlightenment and the humanitarian current, the Frontier and the western current. Prerequisite: Eng 253, 254, 255, or consent of instructor. Oliver, MTuWF, 11:00, Room 106 OM.

(U) Eng 488. **Literature for Teachers.** (g) 3 hours.
For students interested in teaching high-school English. Training in comprehension and analysis of representative literary works. Readings from English and American literature, selected in part from state-adopted high-school texts. Does not apply toward the satisfaction of the minimum requirements for a major in English. Boggs. MWThF, 9:00, Room 106 OM.

(U) Eng 505. **Reading and Conference: (Fiction, Poetry, Juvenile Writing, Non-fiction.)** 3 hours.

(August 1-12.) Admission by prior application only to Mr. Anthony Netboy, Portland Summer Session, 1633 S.W. Park Ave., Portland.

(U) Eng 507. **Seminar: Stephen Crane.** 3 hours.
Novels, short stories, and poems. O'Donnell. TuWThF, 1:00, Room 105 OM.

The following courses open only to participants in the Summer Institute for Teachers, June 16-July 29 (see page 11):

- (U) Eng 507. Seminar: Introduction to Language: 4 hours. Laird.
- (U) Eng 507. Seminar: Chaucer—Language and Poetry. 4 hours. Laird.
- (U) Eng 507. Seminar: English Syntax. 4 hours. Wilson.
- (U) Eng 507. Seminar: Shakespeare and Related Studies in Tragedy. 4 hours. Correll.
- (U) Eng 507. Seminar: Composition and English Prose. 4 hours. Correll.
- (U) Eng 507. Seminar: Forms of Verse—Ballad, Narrative, Lyric. 4 hours. Wilson.

Foreign Languages

Faculty: BERGENDAHL, EATON, FARAH, GRIFFITH, HEALY, LANGHAMMER,
PETERS, SCHLOTTHAUS, SEUBERT, WEINBERGER

Arabic

(P) SmL 50, 51. **First-Year Arabic.** 8 hours.
Elements of the Arabic language; elementary reading, composition, and conversation. Farah. Daily, 1:00 to 3:00, Room 147 SH.

*French

(P) RL 50, 51. **First-Year French.** 8 hours.
An introduction to French, stressing reading and speaking. Exercises in elementary composition and grammar. Healy. Daily, 12:00 to 2:00, Room 103 SH.

(P) RL 101. **Second-Year French.** 4 hours.
Study of selected texts of representative authors; review of grammar; considerable attention to oral use of the language. Healy. TuTh, 6:00 to 8:30 evening, Room 247 SH.

*German and Scandinavian

(P) GL 50, 51. **First-Year German.** 8 hours.
Provides a thorough grammatical foundation and an elementary reading knowledge of German, as well as an understanding of the spoken language. Schlotthaus. Daily, 1:00 to 3:00, Room 124 SH.

(U) GL 60, 61. **First-Year Norwegian.** 6 hours.
Designed to give a thorough grammatical foundation in idiomatic Norwegian, with emphasis on both the reading and speaking of the language. Bergendahl. MTuWF, 11:00 to 1:00, Room 101 SH.

(P) GL 101. **Second-Year German.** 4 hours.
Review of grammar and composition. Reading of selected texts of representative authors. Schlotthaus. Daily, 11:00, Room 124 SH.

(U) GL 104. **Second-Year Norwegian.** 3 hours.
Review of grammar, composition, conversation; study of selections from representative authors. Bergendahl. MW, 6:00 to 8:00 evening, Room 124 SH.

Deutsche Sommerschule am Pazifik

Faculty: EATON, LANGHAMMER, PETERS, SEUBERT.

A program of intensive instruction in the German language and literature for advanced students to be housed at Reed College from June 18 to August 6. For further information, write Dr. H. F. Peters, Portland Summer Session, 1633 S. W. Park Ave., Portland. After consultation with Dr. Peters, students will register for a combination of courses selected from the listing below and totaling 12 hours credit.

- (U) GL 334, 335. **Intermediate German Conversation and Composition.** 2 hours each.
- (U) GL 407. **Seminar.** (g) Hours to be arranged. Maximum 4 hours each.
Section A. The German Romantic
Section B. The German Novelle
Section C. The Classic Tradition in German Literature
Section D. German Life and Thought
- (U) GL 421, 422. **German Literature of the 20th Century.** (G) 3 hours each.
- (U) GL 424, 425, 426. **Advanced German Composition and Conversation.** (G) 2 hours each.
- (P) Ed 408. **Special Secondary Methods (German).** 3 hours.

*Russian

(P) SL 50, 51. **First-Year Russian.** 8 hours.
The elements of the Russian language. Elementary reading, composition, and conversation. Weinberger. Daily, 9:00 to 11:00, Room 103 SH.

*Spanish

(P) RL 60, 61. **First-Year Spanish.** 8 hours.
An introduction to Spanish, stressing speaking and reading. Exercises in elementary composition. Griffith. Daily, 1:00 to 3:00, Room 101 SH.

(P) RL 107. **Second-Year Spanish.** 4 hours.
Intensive oral and written exercises designed to help the student acquire accurate and fluent use of Spanish. Study of selected texts of representative authors. Griffith. TuTh, 6:00 to 8:30 evening, Room 201 SH.

* Students who complete RL 50, 51; GL 50, 51; GL 60, 61; SL 50, 51; or RL 60, 61 with a grade of A or B may enter Second-Year French, German, Norwegian, Russian or Spanish in the fall term.

General Studies

Portland Summer Session Adviser: PIERSON.
Chairman, University of Oregon Committee: SORENSON.
Chairman, Oregon State College Committee: YUNKER.

GSt 501. **Research in General Studies.** Hours to be arranged.

GSt 503. **Graduate Thesis.** Hours to be arranged.

GSt 505. **Reading and Conference.** Hours to be arranged.

Geography

Faculty: BROOKE, HEISER, ROCKIE, TSCHIRLEY.

(P) Geog 105, 106, 107. **Introductory Geography.** 3 hours each.

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 105. Section I: Tschirley. MTuThF, 10:00, Room 371 SH.

Geog 105. Section II: Brooke. MTuWTh, 12:00, Room 371 SH.

Geog 105. Section III: Heiser. MW, 8:00 to 10:00 evening, Room 371 SH.

Geog 106. Rockie. MTuThF, 10:00, Room 383 SH.

Geog 107. Tschirley. TuTh, 6:00 to 8:00 evening, Room 371 SH.

(P) Geog 306. **Economic Geography.** (Third Term). 3 hours.

A systematic survey of man's occupations in response to resources provided by natural environment. Special emphasis on significance of geographic factors in structure and location of industry. Heiser. MWThF, 2:00, Room 371 SH.

(P) Geog 323. **Geography of the Pacific Northwest.** 3 hours.

Analysis of human and economic geography of the Pacific Northwest with special attention to Oregon. Prerequisite: Geog 105 or Geog 208, 209, 210. Rockie. MTuWF, 11:00, Room 371 SH.

(P) Geog 329. **Geography of North America.** 3 hours.

A course providing a basic understanding of economic and social activities in the major human-use regions of the home continent; description, analysis, and interpretation of the present occupancy pattern of the major regions of the United States; a brief survey of Canada, Mexico, and the Caribbean regions. Prerequisite: Geog 104 or Geog 208, 209, 210. Tschirley. MTuWTh, 12:00, Room 383 SH.

(U) Geog 407. **Seminar: Regional Studies in the Geography of the Middle East.** 3 hours.

Brooke. (See Geog 507.)

(U) Geog 425. **Geography of Conservation.** (g) 3 hours.

The geographic distribution of American resources; methods for maintaining the optimum resource use. Rockie. TuTh, 8:00 to 10:00 evening, Room 371 SH.

(U) Geog 432. **Geography of Africa.** (G) 3 hours.

Physical geography of the continent; the main economic, social, and political problems viewed in relation to geography. Prerequisite: Geog 105, 106, 107 or Geog 201, 202, 203. Brooke. TuWThF, 1:00, Room 371 SH.

(U) Geog 507. **Seminar: Regional Studies in the Geography of the Middle East.** 3 hours.

Analysis of the natural and human elements which make up the areal complex of the Middle East. Brooke. TuTh, 6:00 to 8:00 evening, Room 383 SH.

Health and Physical Education

Faculty: DOBSON, ERDMAN, McNALLY, RODNEY, TICHY.

(P) PE 180. **Physical Education (Women).** 1 hour.

(See PE 190.) Tichy.

(P) PE 190. **Physical Education (Men).** 1 hour.

A variety of activities taught for physiological and recreational value. Special sections for restricted and corrective work. A total of five terms is required for all lower-division students. Tichy. MWThF, 9:00, Gym.

(P) HE 252. **First Aid.** 3 hours.

Study of first aid and safety procedures—for the individual schools, athletics, and civilian defense; meets certification standards of the American Red Cross. McNally. MWThF, 9:00, Room 214 OM.

(P) PE 343. **Organization and Administration of Physical Education.** 3 hours.

Planning and organizing the use of buildings, grounds, and recreational areas for the physical education program; purchase and care of equipment; budgeting equipment and operating costs. Tichy. MTuWF, 11:00, Room 303 SH.

(U) PE 406. **Special Problems: Dance.** 2 hours.

Erdman. (See Workshops, PE 15. **Dance Workshop: Basic**, page 53.)

(U) PE 406. **Special Problems: Folk and Social Dancing.** 3 hours.

Instruction and practice in folk and social dancing. Designed for intermediate and upper grade elementary school teachers, and high school teachers. Dobson. MW, 6:00 to 8:00 evening, Gym.

(U) Rec 407. **Seminar: Program Leadership and Supervision.** 3 hours.

Rodney. (See Rec 507.)

(U) PE 408. **Workshop: Camping Education and Recreation.** 6 hours.

Rodney and Special staff. (See Workshops, page 53.)

(U) PE 413. **Physical Education Workshop.** (g) (Third Term). 3 hours.

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. (May be substituted for College of Education Ed 344.) Third term: Individual team sports and games. Tichy. MWThF, 9:00, Gym.

(U) HE 450. **Elementary-School Health Education.** (g) 3 hours.

The purposes and requirements of the school of health service program, with emphasis on organization and procedures for the school health examination. Organization and presentation of teaching materials based on the health needs of the child, community needs, and school health services. McNally. TuWThF, 8:00, Room 213 OM.

(U) PE 506. **Special Problems: Dance.** 2 hours.

Erdman (See Workshops, PE 16. **Dance Workshop: Advanced**, page 53.)

(U) Rec 507. **Seminar: Program Leadership and Supervision.** 3 hours.

The nature, meaning, and principles of leadership and supervision; planning community recreation programs; selection and training of leaders; types of programs considered in relation to sex, age, individual interests, needs, and capacities. Rodney. MW 8:00 to 10:00 evening, Room 225 SH.

(U) Rec 508. **Workshop: Camping Education and Recreation.** 6 hours.

Rodney and special staff. (See Workshops, page 53.)

See the following listed under EDUCATION:

- (P) Ed 344. **Physical Education in the Grades.** 3 hours. Tichy.
 (P) Ed 351. **Health Education.** 3 hours. McNally.

History

Faculty: COX, DAHL, DMYTRYSHYN, GILMORE, HOFFMAN, KERR, WEBB, WHITE.

- (P) Hst 101, 102, 103. **History of Western Civilization.** 3 hours each.
 Origins and development of Western civilization from ancient times to the present.
 Hst 101. Cox. MWThF, 9:00, Room 149 SH.
 Hst 102. White. TuTh, 8:00 to 10:00 evening, Room 101 SH.
 Hst 103. Dmytryshyn. MWThF, 9:00, Room 124 SH.
- (P) Hst 201, 202, 203. **History of the United States.** 3 hours each.
 From colonial times to the present day.
 Hst. 201. Gilmore. TuTh, 6:00 to 8:00 evening, Room 103 SH.
 Hst 202. Dahl. MTuThF, 10:00, Room 101 OM.
 Hst 203. Kerr. TuWThF, 8:00, Room 110 OM.
- (P) Hst 342. **Europe Since 1789.** (Second Term). 3 hours.
 Political, social, economic, and cultural trends from the French Revolution to the present. Second Term: 1890 to 1929. Webb. MTuWF, 11:00, Room 103 OM.
- (U) Hst 350. **Hispanic America.** (First Term). 3 hours.
 A survey of Hispanic America from the early Indian civilization through the periods of Spanish conquest and colonization; the wars of independence; the rise of national states; their internal development and foreign relations. Dahl. MW, 6:00 to 8:00 evening, Room 147 SH.
- (P) Hst 382. **Near East in Modern Times.** (Second Term). 3 hours.
 An analysis of the religious, political and cultural development in the Near East from the Christian era to the present. Emphasis is placed on Islam; the evolution of the Modern Turkish, Hebrew and Arab states including the Maghreb; and the geographical and strategic importance of the Balkan and Levantine areas. Prerequisite: Hst 101, 102, 103, or consent of instructor. Cox. MTuThF, 10:00, Room 149 SH.
- (U) Hst 391. **The Far East in Modern Times.** (First Term). 3 hours.
 Political, economic, and diplomatic developments in China and Japan since 1905, with special emphasis on the rise and decline of Japan and the decline and rise of China as the dominant power in Eastern Asia. Prerequisite: Hst 101, 102, 103; Hst 201, 202, 203. Webb. MTuThF, 10:00, Room 103 OM.
- (P) Hst 405. **Reading and Conference.** Hours to be arranged.
- (U) Hst 418. **Studies in Western Civilization.** (g) (First Term). 3 hours.
 Political, economic, and intellectual problems in the history of Western civilization from the Middle Ages to 1815. Intended primarily for teachers; attention to aspects that are particularly applicable to teaching assignments. Cox, TuTh, 6:00 to 8:00 evening, Room 124 SH.
- (U) Hst 448. **History of Russia.** (G) (Second Term). 3 hours.
 Second term: creation of the Russian Empire, political, social, and economic developments. Dmytryshyn. MW, 6:00 to 8:00 evening, Room 224 SH.
- (U) Hst 466. **Tudor England.** (G) 3 hours.
 The political, social, economic, and intellectual development of England through

- the reigns of the Tudor sovereigns, 1485-1603. White. MTuThF, 10:00, Room 102 OM.
- (U) Hst 473. **American Foreign Relations.** (G) (First Term). 3 hours.
 The origins, character, and consequence of American foreign politics from the Revolutionary War to the present. Kerr. MW, 8:00 to 10:00 evening, Room 147 SH.
- (U) Hst 476. **History of the West.** (G) (First Term). 3 hours.
 The early American frontier. Hoffman. MWThF, 9:00. Room 101 OM.
- (U) Hst 478. **History of the Pacific Northwest.** (G) 3 hours.
 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. Gilmore. MTuWTh, 12:00, Room 102 OM.
- (U) Hst 480. **The United States in the Twentieth Century.** (G) (First Term). 3 hours.
 First term: to 1918. Gilmore. TuWThF, 1:00, Room 102 OM.
- (U) Hst 490. **Problems of the Pacific.** (g) 3 hours.
 Peoples, resources, and strategic significance of the Pacific basin. Occidental and Sino-Japanese problems, interests, and conflicts in the area. Webb. TuTh, 8:00 to 10:00 evening, Room 124 SH.
- (U) Hst 505. **Reading and Conference.** Hours to be arranged.
- (C) SSc 511. **Contemporary Developments in the Social Sciences.** (First Term). 3 hours.
 Considerations of main developments, trends, and thinking of leaders in the various social science areas. Study of processes through which logical conclusions concerning problems of society can be formulated. Readings from selected articles and books highlighting current thinking. Dahl. MTuWF, 11:00, Room 102 OM.

Home Economics

Faculty: LOWRY.

- (S) FN 225. **Nutrition.** 3 hours.
 Principles of nutrition from the standpoint of newer scientific investigations; selection of an optimal diet for health; present day problems in nutrition. TuWThF, 8:00, Room 102 OM.

Journalism

Faculty: BAUER.

- (P) Hum 407. **Seminar: Introduction to Communication.** 3 hours.
 An introduction to the mass communications media: radio, television, films, the press. TuWThF, 8:00, Room 106 OM.

Mathematics

Faculty: BYRNE, FLANAGAN, REMPFER, ROSENBAUM, STANTON, TAUBER, WILLIAMS.

- (P) Mth 10. **Elements of Algebra.** Non-Credit.
 Rempfer. MTuWF, 11:00, Room 112 OM.
- (P) Mth 100. **Intermediate Algebra.** 4 hours.

- Prerequisite: one year of high-school algebra, or Mth 60.
 Section I: Tauber. Daily, 1:00, Room 112 OM.
 Section II: Flanagan. TuTh, 6:00 to 8:30 evening, Room 203 SH.
- (P) Mth 101. **College Algebra.** 4 hours.
 Prerequisite: one and one-half years of high-school algebra, or Mth 100. Tauber. Daily, 12:00, Room 111 OM.
- (P) Mth 102. **Plane Trigonometry.** 4 hours.
 Prerequisite: Mth 101. Flanagan. Daily, 10:00, Room 112 OM.
- (P) Mth 103. **Analytic Geometry.** 4 hours.
 Prerequisite: Mth 102. Stanton. MW, 6:00 to 8:30 evening, Room 228 SH.
- (P) Mth 111. **Mathematics for Elementary Teachers.** 3 hours.
 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.
 Section I: Flanagan. MWThF, 9:00, Room 112 OM.
 Section II: Stanton. MTuWTh, 12:00, Room 112 OM.
- (P) Mth 203. **Differential and Integral Calculus.** (Third Term). 4 hours.
 Standard sequence for students of science and engineering. Prerequisite: Mth 103. Byrne. Daily, 11:00, Room 121 OM.
- (P) Mth 331, 332. **Differential Equations.** 3 hours each.
 (Mth 331, June 20-July 15; Mth 332, July 18-August 12.) Applied ordinary and partial differential equations. Prerequisite: Mth 203. Rempfer, Byrne. MWThF, 2:00-4:00, Room 112 OM.
- (U) Mth 405. **Reading and Conference.** Hours to be arranged.
 Byrne, Rempfer.
- (P) Mth 412. **Higher Algebra.** (First Term.) 3 hours.
 Basic concepts of algebra, theory of equations, matrices, linear transformations, quadric forms. Prerequisite: Mth 203 or consent of instructor. Byrne. TuWThF, 1:00, Room 121 OM.
- (P) Mth 425. **Elements of Statistical Methods.** (First Term). 3 hours.
 A basic course in statistical analysis including presentation of data, design of experiments, sampling theory, tests of significance, analysis of variance and correlation. Prerequisite: Mth 100 and junior standing, or consent of instructor. Tauber. TuTh, 6:00 to 8:00 evening, Room 228 SH.
- The following courses are open only to participants in the Summer Institute for Teachers, (see page 11) June 16-July 29:
- (S) Mth 507. **Seminar: Algebra for Grade School Teachers.** 4 hours.
 Rosenbaum, Williams.
- (S) 507. **Seminar: Number Theory for Grade School Teachers.** 4 hours.
 Rosenbaum, Williams.

Music

Faculty: FOSTER, GUSTAFSON, STEHN, TRUDEAU.

- (P) Mus 190. **Applied Music.** 1-2 hours.
 Freshman year. Individual instruction in organ, piano, violin, cello, harp, voice, orchestral and band instruments. For music majors and music instructors. By arrangement. Stehn.

- (P) Mus 197. **Chorus.** 1 hour.
 Six hours maximum credit. Foster. MW, 6:00 to 8:00 evening, Room 453 SH.
- (P) Mus 290. **Applied Music.** 1-2 hours.
 Sophomore year. Continuation of Mus 190, which is prerequisite. By arrangement. Stehn.
- (P) Mus 323. **Choral Conducting.** 2 hours.
 The principles of conducting and training choral organizations. Practical experience in conducting campus organizations. Foster. MW, 6:00 to 8:00 evening, Room 453 SH.
- (P) Mus 381, 382. **Music Fundamentals.** 3 hours each.
 Basic musicianship for the elementary teacher, developed through experience relevant to the classroom. Required of majors in elementary education.
 Mus 381. Gustafson. TuWThF, 8:00 Room 349 SH.
 Mus 382. Foster. MTuWTh, 12:00 Room 349 SH.
- (P) Mus 383. **Music Fundamentals (Teacher Education).** 3 hours.
 Experience in teaching the various music activities found in the elementary classroom. Required of majors in elementary education. Gustafson. MTuThF, 10:00, Room 349 SH.
- (P) Mus 390. **Applied Music.** 1-2 hours.
 Junior year. Prerequisite: Mus 290 or equivalent. By arrangement. Stehn.
- (P) Mus 397. **Chorus.** 1 hour.
 Six hours maximum credit. Foster. MW, 6:00 to 8:00 evening, Room 453 SH.
- (U) MuE 407. **Seminar: Band Techniques.** (G) 3 hours.
 Rehearsal technique, training methods, selection of music, practical problems. In conjunction, a clinic band of forty to fifty high school freshmen and sophomores will be used. Stehn. MTuWF, 11:00, Room 453 SH.
- (U) Mus 434. **Applied Theory.** (G) (First Term). 3 hours.
 Designed primarily for school orchestra, band, and choral directors. Practical study of problems of harmony, form, structure, counterpoint, rhythm, and intonation as they are usually encountered in the music performed by high-school organizations. Prerequisite: experience as an orchestra, band, or choral director, or consent of instructor. Trudeau. MW, 8:00 to 10:00 evening, Room 349 SH.
- (U) Mus 442. **Advanced Conducting.** (G) (Second Term). 3 hours.
 The routine and technique of conducting. Problems of the symphony orchestra and choral groups. Score reading. Actual practice in conducting. Prerequisite: Mus 211, 212, 213 or equivalent; consent of instructor. Stehn. MTuThF, 10:00, Room 453 SH.
- (P) Mus 490. **Applied Music.** 1-2 hours.
 Senior year. Continuation of Mus 390, which is prerequisite. By arrangement. Stehn.
- (U) MuE 533. **Music in the Elementary School.** 3 hours.
 Theory, supervision, curriculum, materials, and procedures of vocal music teaching in the elementary school. Research in problems involving music and related areas of instruction. Gustafson. MTuWF, 11:00, Room 349 SH.

See the following listed under EDUCATION:

- (C) Ed 410. **Methods and Research Materials: Music.** (G) 3 hours. Gustafson.

Philosophy

Faculty: NEWHALL, POLONOFF.

- (P) Phl 201. **Problems of Philosophy.** 3 hours.
An introduction to some of the persistent problems and great systems of philosophy through reading and discussion of selected source materials. Newhall. MTuWF, 11:00, Room 221 SH.
- (P) Phl 202. **Elementary Ethics.** 3 hours.
The course develops the idea of man as a moral agent and considers critically various interpretations of the ideals and standards of moral conduct. Polonoff. MTuThF, 10:00, Room 106 OM.
- (P) Phl 203. **Elementary Logic.** 3 hours.
An introductory study of the standard forms of reasoning. Exercise in recognizing, analyzing, criticizing, and constructing the main types of argument and proof. Polonoff. MWThF, 9:00, Room 221 SH.
- (P) GSt 330. **The Creative Process.** 3 hours.
An examination of selected theories and examples of creativity and inventiveness in the fine arts, literature, philosophy, science and other forms of human experience. Polonoff. MW, 8:00 to 10:00 evening, Room 301 SH.
- (P) Phl 445. **Ethics.** (First Term). 3 hours.
A systematic study and critical analysis of the main types of ethical theory, including a discussion of the presuppositions of these types, and some consideration of the relations between psychology and ethics, religion and ethics, and anthropology and ethics. Prerequisite: 9 term hours of philosophy. Newhall. MTuWTh, 12:00, Room 221 SH.
- (P) Hum 10. **Contemporary Man and His Problems.** Non-credit.
A series of lecture-discussions on the contributions of science to an understanding of contemporary man and his problems. The course will be philosophical in character, but material will be drawn from such fields as physics, biology, anthropology, sociology, psychology, and others. Newhall. Tuesday, 7:30 to 9:30 evening, Room 71 SH.

Political Science

Faculty: BARTLEY, BIERMAN, DEAN, GREENE, WATSON.

- (P) PS 201, 203. **American Governments.** (First and Third Terms). 3 hours each.
First term: national government. Third Term: state and local governments.
PS 201. Bartley. MTuWF, 11:00, Room 111 OM.
PS 203. Greene. MTuThF, 10:00, Room 113 OM.
- (U) PS 434. **Political Theory: The American Tradition.** (G) (Second Term). 3 hours.
The development of American thought about government and its proper relation to life, liberty, and property. Greene. TuTh, 8:00 to 10:00 evening, Room 147 SH.
- (U) PS 482. **The Legislature in American Government.** (G) 3 hours.
Study of the work of representative lawmaking bodies in a modern technological society; how legislatures are organized and operate in the federal and state governments. Bartley. MTuThF, 10:00, Room 111 OM.
- (U) PS 507. **Seminar: Urban Planning.** 3 hours.
Legal framework and administration of community planning programs. The sub-

- ject matter of planning. Plan implementation and the machinery of planning. Planning programs and the future of planning. Bartley. TuTh, 6:00 to 8:00 evening, Room 147 SH.
- (U) PS 507. **Seminar: Bill of Rights Education.** 6 hours.
Bierman. (See Workshops, Ed 508. **Workshop: Bill of Rights Education**, page 53.)
- (U) PS 507. **Seminar: Relationship of Some Recent Developments in the Behavioral and Natural Sciences.** 6 hours.
A panel of visiting and resident instructors and special lecturers will discuss concepts from various disciplines and their relationships to contemporary issues. Sessions will be devoted to presentation and general discussion. The student will be responsible for a project—applying concepts to problems in his special fields. Watson, Dean, Greene. TuWThF, 1:00 to 3:00, Room 111 OM.

Psychology

Faculty: BOYD, LYMAN, PAREIS, POWLOSKI, SMITH, WESLEY, WILSON.

- (P) Psy 201, 202, 203. **General Psychology.** 3 hours each.
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 201. Pareis. TuWThF, 1:00, Room 101 OM.
Psy 202. Pareis. MW, 8:00 to 10:00 evening, Room 221 SH
Psy 203. Wesley. MWThF, 2:00, Room 102 OM.
- (P) Psy 311. **Human Development.** 3 hours.
Development of the child as an individual and as a member of social groups. Included in 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.
Section I: Wesley. TuWThF, 1:00, Room 103 OM.
Section II: Wilson. TuWThF, 8:00, Room 101 OM.
Section III: Powloski, MW, 8:00 to 10:00 evening, Room 303 SH.
- (P) Psy 345. **Psychology of Motivation.** 3 hours.
Conditions, principles, and theories of human motivation. Critical examinations of the use of motivational theory in the social sciences and related fields. Prerequisite: Psy 201, 202, 203. Powloski. MTuWF, 11:00, Room 101 OM.
- (P) Psy 347. **Perception.** 3 hours.
Conditions, principles and theories of perception. Critical reading or experimental studies of perception in relation to historical and current theory. Prerequisite: Psy 201, 202, 203. Lyman. MTuWTh, 12:00, Room 104 OM.
- (S) Psy 411. **Mental Hygiene.** (g) 3 hours.
Principles and application of mental hygiene to problems of individuals in home, school, and occupational situations. Prerequisite: Psy 314 or equivalent. Pareis. MWThF, 2:00, Room 101 OM.
- (U) Psy 421. **Principles and Methods of Psychological Assessment.** (g) (First Term.) 3 hours.
Application of psychological methods to the study of the individual; survey of intelligence, achievement, special-aptitude and personality tests; theoretical and

statistical background for interpretations of test scores; training in diagnosis of actual cases. Boyd. TuWThF, 8:00, Room 147 SH.

(P) Psy 432, 434. **Personality.** (First and Third Terms). 3 hours each.

Personality structure and theory; study and use of measures of personality including inventories, tests, and projective techniques; disorders of personality, meaning of mental health. Prerequisite: Psy 201, 202, 203; Mth 425, 426 or equivalent.

Psy 432. Powloski. MTuWTh, 12:00, Room 101 OM.

Psy 434. Smith. TuTh, 6:00 to 8:00 evening, Room 225 SH

(U) Psy 450. **Abnormal Psychology.** (g) 3 hours.

Various forms of unusual behavior, including anxiety states, hysteria, hypnotic phenomena, and psychoses. Normal motives and adjustment mechanisms as they are exaggerated in the so-called neurotic person. Smith. TuTh, 6:00 to 8:00 evening, Room 225 SH.

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

(See Psy 461.)

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

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

Psy 460. MWThF, 9:00, Room 110 OM.

Psy 461. MTuThF, 10:00, Room 110 OM.

(P) Psy 462. **Developmental Psychology.** (Third Term: Animal Behavior). 3 hours.

Study of animal and human behavior from a developmental point of view. Significance of behavior during the prenatal period, infancy, childhood, adolescence, maturity, and old age. Field projects supplement the classwork. Prerequisite: Psy 201, 202, 203; Mth 425 or equivalent. Wesley. MW, 8:00 to 10:00 evening, Room 224 SH.

(U) Psy 465. **Motivation.** (G) 3 hours.

Review of changing conceptions of motivation, particularly as a result of clinical studies, experimental work on animal behavior, and the contributions of topological psychology. Powloski. MTuWF, 11:00, Room 101 OM.

(U) Psy 524, 525. **Individual Intelligence Testing.** 3 hours each.

Supervised practice in the administration, scoring, and interpretation of intelligence tests, chiefly the Stanford-Binet, the Wechsler intelligence scale for children, and the Wechsler adult intelligence scale. Prerequisite: Psy 421. Boyd. MWThF, 9:00, Room 111 OM.

Religion

Faculty: ZEIGLER.

(U) R 421. **Religion in Contemporary Society.** (g) 3 hours.

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. MTuWTh, 12:00, Room 224 SH.

(U) R 423. **Philosophy of Religion.** (g) 3 hours.

An inquiry into the nature of religion and its basic underlying convictions. An

analysis of the factor of religion and religious thought in culture and civilization. MW, 8:00 to 10:00 evening, Room 149 SH.

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

Comparative study of religions that command a large following today, such as Hinduism, Buddhism, Confucianism, Judaism, Christianity, and Islam. TuWThF, 1:00, Room 221 SH.

Science

Faculty: CHURCHLEY, EL WARDANI, FERGUSON, GUREVITCH, JOHNSON, LANGE, MACNAB, MALCOLM, MICKELSEN, NORRIS, NUSSBAUM, ROBERTI, SILVERMAN, VAN ATTA, WINCHELL.

Biology

* (P) Bi 204, 205, 206. **General Zoology.** 4 hours each.

(June 20-August 19.) For biology and zoology majors and premedical, pre dental, pre nursing, pre pharmacy, preveterinarian, physical education, psychology, fish and game management, and fisheries students. Macnab. Two hours of lecture; four hours of laboratory. Daily, start 8:00, Room 309 OM.

(P) Bi 326. **Comparative Vertebrate Embryology.** 4 hours.

Comparative study of the development of several representative vertebrate forms. Prerequisite: Bi 206. Malcolm.

Lecture: TuWTh, 8:00, Room 301 SH.

Laboratory: TuWTh, 9:00 to 11:30, Room 312 OM.

(P) Bi 353. **General Entomology.** 4 hours.

An introduction to the morphology, physiology, biology, and classification of the insects. Malcolm.

Lecture: TuWTh, 1:00, Room 301 SH.

Laboratory: TuWTh, 2:00 to 4:30, Room 313 OM.

Chemistry

* (P) Ch 104, 105, 106. **General Chemistry.** 4 hours each.

For students majoring in medical technology, pre dental, nursing, and general studies.

Ch 104. (June 20-July 8). Mickelsen.

Ch 105 (July 11-29). Johnson.

Ch 106 (August 1-19). Churchley.

Lecture: Daily, 8:00 to 9:30 and 12:30 to 1:30, Room 303 OM.

Laboratory: daily, 9:30 to 12:00, Room 304 OM.

* (S) Ch 226, 227. **Organic Chemistry.** 5 hours each.

General service course covering aromatic and aliphatic chemistry. Prerequisite: Ch 206 or Ch 103.

Ch 226 (July 20-July 15). Ferguson.

Ch 227 (July 18-August 12). Roberti.

Lecture: MTuThF, 9:00 to 11:00, Room 303 SH.

Laboratory: MTuThF, 11:30 to 3:30, Room 362 OM.

(U) Ch 324. **Inorganic Semi-Micro Qualitative Analysis.** 3 hours.

(June 20-July 22.) The separation and identification of cations and anions, by semi-micro methods. Prerequisite: Ch 203, 206. Mickelsen.

Lecture: W, 8:00 to 10:00, Room 347 SH.

Laboratory: MTuTh, 9:30 to 12:30, Room 307 OM; W, 10:00 to 2:30, Room 307 OM.

* (P) Ch 411, 412, 413. **Inorganic Chemistry.** 3 hours each.

Descriptive chemistry of the elements and their compounds; introduction to atomic nuclei, atomic structure, coordination compounds, and complexions, reactions in non-aqueous solutions, radiochemistry and various acid-base concepts. Silverman. Lecture: MTuThF, 8:00 to 9:00 and 12:30 to 1:30, Room 306 OM. Laboratory: MTuThF, 9:00 to 12:00, Room 306 OM.

General Science

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

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. Winchell.

Lecture: TuWThF, 10:00 to 12:00, Room 303 OM.
Laboratory A: TuWThF, 8:00 to 10:00, Room 310 OM.
Laboratory B: TuWThF, 1:00 to 3:00, Room 310 OM.

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

Fundamental principles of physics, chemistry, astronomy, and geology; development and application of the scientific method. For students majoring in fields other than the physical sciences who wish a broad view of the principles of several physical sciences. If taken after courses with similar materials have been completed, credit will be restricted. Lange.

Lecture: TuWThF, 1:00 to 3:00, Room 53 SH.
Laboratory A: TuWThF, 8:00 to 10:00, Room 212 OM.
Laboratory B: TuWThF, 10:00 to 12:00, Room 212 OM.

(P) GS 407. **Seminar: Oceanography.** 5 hours.

(June 20-July 22.) A comprehensive and elective treatment of the physics, chemistry, biology, geochemistry, biogeochemistry and geology of the oceans; emphasis on interactions of processes and practical applications; economic, industrial, engineering, military and meteorological aspects of oceanography; oceanographic instrumentation; collection, analysis, and interpretation of hydrographic data; local oceanographic conditions of the Northeast Pacific. Limited laboratory and field work. Enrollment limited to 20 students. Prerequisite: junior standing in sciences and consent of instructor. One hour of lecture; 2 hours of laboratory. El Wardani. MTuWTh, 3:00 to 6:00, Room 314 OM.

(C) GS 411. **History of Science.** (g) 3 hours.

A brief history of the development of science, its social implications, and the growth of scientific method and philosophy. Prerequisite: upper-division standing. Lange. MW, 8:00 to 10:00 evening, Room 145 SH

Geology

* (P) G 201, 202, 203. **Geology.** 3 hours each.

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. Van Atta. MTuWTh, 12:00 to 2:00, Room 225 SH.

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

Laboratory and field work to accompany G 201, 202, 203 for all students desiring practical knowledge of geology. Van Atta. MTuWTh, 8:00 to 11:00, Room 1 SH.

Physics

* (P) Ph 201, 202, 203. **General Physics.** 5 hours each.

(June 20-August 19.) Standard College Physics. Prerequisite: Mth 102, or consent of instructor. Three hours of lecture; three hours of laboratory.

Lecture: Norris. Daily, 8:00 to 11:00, Room 53 SH.
Laboratory A: Daily, 11:00 to 2:00, Room 3 OM.
Laboratory B: Daily, 2:00 to 5:00, Room 3 OM.

(S) Ph 407. **Seminar: Nuclear Laboratory for High School Teachers.** 6 hours.

An introduction by means of lectures, demonstrations, student experiments and seminar discussions to some basic problems in nuclear physics, in particular radio activity, and some simple experimental techniques in radiation detection. Includes a brief discussion of biological effects of radiation and its implications for human beings. Prerequisite: college physics or consent of instructor. Nussbaum. TuTh, 1:00 to 5:00, Room 2 OM.

* (U) Ph 411, 412, 413. **Modern Physics.** (G) 3 hours each.

Introduction to the fundamental concepts of atomic, nuclear, and solid-state physics, in terms of experimental developments during the last fifty years. Kinetic theory, Bohr atom, atomic and molecular spectra, nuclear structure, radioactivity. Prerequisite: Ph 201, 202, 203; must be preceded by or accompanied by calculus. Gurevitch. MTuThF, 9:00 to 12:00, Room 301 SH.

(C) GS 424. **Astronomy.** (g) 3 hours.

A descriptive survey of some selected topics on current knowledge and speculation about the structure, origin, age, and place of the solar system within our own galaxy, a star's basic astronomical measurements, leading to some systematic features of stellar populations, their energy cycles and evolution, the universe of galaxies and some ideas about its origin and structure. Nussbaum. TuTh, 8:00 to 10:00 evening, Room 145 SH.

Secretarial Science and Business Education

Faculty: BACKLUND, OLIVER, YERIAN.

(P) SS 111. **Stenography.** (First Term). 3 hours.

Theory of shorthand; practical applications in sentence dictation. SS 121 must be taken concurrently unless the student has had the equivalent. Students with one year of shorthand are not permitted to take SS 111 for credit. Backlund. MW, 6:00 to 8:00 evening, Room 145 SH.

(P) SS 121, 122. **Typing.** (First and Second Terms.) 2 hours each.

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. Backlund. SS 121. MTuWTh, 12:00, Room 325 SH.
SS 122. TuWThF, 1:00, Room 325 SH.

(P) SS 241, 242. **Office Practice.** 3 hours each.

General survey course of all office problems and procedures, including typing, filing, statistical work and personnel. No shorthand required. Oliver. SS 241 (June 20-July 15). MWThF, 9:00 to 11:00, Room 325 SH.
SS 242 (July 18-August 12). MWThF, 9:00 to 11:00, Room 325 SH.

* Students must make special arrangements with the instructor to register for less than the entire sequence.

- (S) BEd 507. **Seminar: Practicum in Business Education.** 3 hours.

The planning and development of practical and creative projects, group or individual, in the field of Business Education. Students will be urged to use actual school situations as nucleus for the term's work and to arrive at the best possible solutions. Special attention will be given to problem situations brought to the group by individual members of the class. Yerian. TuTh, 6:00 to 8:00 evening, Room 347 SH.

Sociology

Faculty: DEAN, DRUM, GREENE, JAMES, WATSON.

- (P) Soc 204, 206. **General Sociology.** (First and Third Terms). 3 hours each.
The basic findings of sociology concerning the individual, culture, group life, social institutions, and factors of social change. Prerequisite: sophomore standing or consent of instructor.
Soc 204. James. TuWThF, 1:00, Room 120 OM.
Soc 206. Dean. MTuWF, 11:00, Room 224 SH.
- (P) Soc 334. **Social Psychology.** (First Term). 3 hours.
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 204, 205 or Psy 201, 202. James. MWThF, 2:00, Room 120 OM.
- (P) Soc 338. **Marriage and the Family.** 3 hours.
The growth and development of the family throughout its life cycle. The family and personality development, dating, courtship, mate selection, engagement, marital and family adjustment, family crises. Prerequisite: junior standing or consent of instructor. Drum. MW, 6:00 to 8:00 evening, Room 201 SH.
- (U) Soc 417. **Criminology and Delinquency.** (G) (Second Term). 3 hours.
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. Drum. MWThF, 9:00, Room 121 OM.
- (U) Soc 437. **Sociology of Race Relations.** (G) 3 hours.
The development of "race consciousness" and emergent problems of race-culture contacts. Prerequisite: introductory course in sociology, anthropology, or psychology. Dean. TuTh, 6:00 to 8:00 evening, Room 249 SH.
- (U) Soc 442. **Community Welfare Organization.** (g) 3 hours.
Analysis of the process of bringing about a progressive adjustment between individual and group welfare needs and community resources; the organizational framework within which the process operates; the social structure and dynamics of the community setting. Prerequisite: 9 hours in sociology or consent of instructor. Drum. MTuThF, 10:00, Room 121 OM.
- (U) Soc 507. **Seminar: Rehabilitation of the Mentally Ill.** 3 hours.
A social behavioral approach to the rehabilitation of the mentally ill in terms of the resocializing processes that operate along the mental hospital-community continuum. Rehabilitation is seen essentially as a process of social role restoration as the necessary condition of the mental patient's effective functioning and reintegration in the community, particularly in the self-concept, interpersonal, family, and work adjustment areas. James. MW, 6:00 to 8:00 evening, Room 303 SH.

- (U) Soc 507. **Seminar: Relationship of Some Recent Developments in the Behavioral and Natural Sciences.** 6 hours.

A panel of visiting and resident instructors and special lecturers will discuss concepts from various disciplines and their relationships to contemporary issues. Sessions will be devoted to presentation and general discussion. The student will be responsible for a project—applying concepts to problems in his special fields. Watson, Dean, Greene. TuWThF, 1:00 to 3:00, Room 111 OM.

Speech

Faculty: ALY, ENGELBERG, ENGLISH, FAX, GIBSON, HOLEMAN, KENT, LILLYWHITE, MONTGOMERY, WELLS.

- (P) Sp 111. **Fundamentals of Speech.** (First Term). 3 hours.
Projects in extempore speaking. Emphasis on content and organization of the speech, but attention also to poise, effective delivery, and command of the language.
Section I: Montgomery. MW, 8:00 to 10:00 evening, Room 101 SH.
Section II: Gibson. MWThF, 9:00, Room 228 SH.
- (P) Sp 211. **Interpretation.** 2 hours.
Speech projects designed to improve general speech personality and communication, and to develop better voice and diction. Gibson. MW, 6:00 to 7:30 evening, Room 21 SH.
- (P) Sp 370. **Phonetics.** 3 hours.
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: Montgomery. MWThF, 2:00, Room 22, Shattuck School, 1914 S.W. Park Ave., Portland.
- (U) Sp 371. **Speech Science.** 3 hours.
A study of the anatomy, psychology, and physics of speech. English. MTuWF, 11:00, 45 SH.
- (P) Sp 413. **Teaching Speech in the Elementary School.** 3 hours.
Methods and materials. Instruction in speech practices and projects suitable for the elementary classroom. Attention to the needs of children with both normal and defective speech. Recommended for all prospective elementary teachers. English. MWThF, 2:00, Room 45 SH.
- (P) Sp 414. **Teaching Speech in the Secondary School.** 3 hours.
Methods and materials. Instruction in speech practices and projects for the high school classroom and extra-curricular program. Especially recommended for all teachers of language arts on the secondary level. Gibson. MTuThF, 10:00, Room 228 SH.
- (U) Sp 481. **Speech Pathology.** (G) (First Term). 3 hours.
Symptoms, causes, and treatment of speech abnormalities. Functional articulatory defects, delayed speech, emotional speech disorders. Permission of instructor required to enroll. Montgomery. MWThF, 9:00, Room 45 SH.
- (U) Sp 483. **Speech Pathology.** (G) (Third Term). 3 hours.
Symptoms, causes, and treatment of speech abnormalities. Public school speech correction, specific techniques in the diagnosis and treatment of major speech problems. Permission of instructor required to enroll. Lillywhite and staff. TuWThF, 8:00 to 1:00, Shattuck School, 1914 S. W. Park Ave., Portland.

(U) Sp 484, 485, 486. **Clinical Speech Therapy.** (G) 2 hours each.

Supervised clinical work with speech-defective children and adults. Group discussion of case histories and techniques. Permission of instructor required to enroll. Lillywhite and staff. TuWThF, 8:00 to 1:00, Shattuck School, 1914 S. W. Park Ave., Portland.

(U) Sp 487. **Audiology.** (G) (First Term). 3 hours.

(June 20-July 15.) The auditory function, hearing impairment, and the education or re-education of persons with hearing loss. Anatomy of the ear, psychophysics of hearing, physical attributes of speech sounds, types and causes of hearing loss, speech involvements of deafness. Engelberg. TuWThF, 1:00 to 3:00, Crippled Children's Division Building, 745 S. W. Gaines St., Portland.

(U) Sp 488. **Audiology.** (G) (Second Term). 3 hours.

(July 18-August 12.) The auditory function, hearing impairment, and the education or re-education of persons with hearing loss. Auditory tests and their clinical interpretation, selection and use of hearing aids. Engelberg. TuWThF, 1:00 to 3:00, Crippled Children's Division Building, 745 S. W. Gaines St., Portland.

(C) Sp 493. **Principles and Techniques of Speech Correction.** (g) 3 hours.

Designed to survey the field of speech defects and to acquaint classroom teachers with an understanding of typical speech defects among children and the basic techniques for their prevention and correction. Emphasis is placed on speech problems which classroom teachers may be called upon to manage. Includes analysis of speech mechanics, recognition of defects, formation of sounds, testing devices, and techniques for remediation and prevention. Fay. TuWThF, 1:00, Room 45 SH.

(U) Sp 507. **Seminar and Practicum in Problems of Hearing Impaired Children.** 6 hours.

Kent, Holeman. (See Workshops, page 53.)

(U) Sp 507. **Seminar: Current Trends in Public School and Clinical Speech Correction.** 6 hours.

Wells. (See Workshops, page 53.)

The following courses open only to participants in the **Summer Institute for Teachers** (see page 11), June 16-July 29:

(U) Sp 507. **Seminar: Literature of the Rhetorical Tradition.** 4 hours. Aly.

(U) Sp 507. **Seminar: Principles of Oral Discourse.** 4 hours. Aly.

Theater Arts

Faculty: HJERT, PEPPERDINE.

(P) TA 308. **Principles of Educational Theater.** 3 hours.

Secondary school drama. Methods and materials for developing the theater program within the curriculum and as an extra-curricular activity. Pepperdine. MWThF, 2:00, Room 109 OM.

(U) Sp 364. **Play Direction.** 3 hours.

Sources of dramatic material, choice of plays, casting and rehearsal of players, production organization, practical experience in directing. Hjert. TuWThF, 1:00, Room 109 OM.

(P) TA 401. **Special Studies: Theater Arts Production.** 3 hours.

Problems in acting technique, study, rehearsal, and performance. Prerequisite: consent of instructor. Pepperdine, Hjert. MTuThF, 3:00 to 5:00, Room 109 OM.

Workshops

Four-Week Workshops

(U) Ed 507. **Seminar: Curriculum Workshop for Experienced Teachers of the Mentally Retarded.** 6 hours. (June 20-July 15).

Offered in cooperation with the Oregon State Department of Education for the purpose of studying teaching methods and developing curriculum materials and instructional procedures as an initial step in the development of a curriculum guide for teachers of the mentally retarded. Open only to certified experienced teachers of the mentally retarded. Designed especially for teachers in the Oregon state reimbursed program of special classes. Jones. Daily, 8:00 to 12:00, Eliot School, 2231 N. Flint Ave., Portland.

(S) Ed 508. **Workshop: Air and Space Education.** 6 hours. (July 11-August 6.)

Especially planned for elementary and secondary teachers and administrators; will consider economic, social, geographical, military, and technical aspects of the air and space age. Workshop will be held for the first three weeks at the Portland Air Base. The fourth week will be held at the U. S. Naval Ordnance Test Station, China Lake, Cal., and Edwards Air Force Base. Air transportation to visit the Boeing Airplane Company in Seattle, Wash., and to China Lake, Cal., and return to Portland to be furnished by the Armed Forces. Open only to those who have never enrolled in an Aviation Education Workshop. A limited number of students will be permitted to live at the Portland Air Base. Meals and lodging will approximate \$7.00 per day at the bases. There will be a charge for materials approximating \$6.00. All costs, with the exception of tuition payable at registration, are paid at time service is rendered. Air transportation and base accommodations limit enrollment. A few scholarships are available. Admission by prior application should be addressed to Robert J. Gridley, Coordinator of Workshops, 1633 S. W. Park Ave., Portland. Haas, Ferrier, Cody and special staff. Daily, 9:00 to 12:00 and 1:00 to 4:00.

(U) Ed 508. **Workshop: Economic Education.** 6 hours. (June 20-July 15.)

The workshop will provide an opportunity for experienced secondary school teachers to combine study of economic problems with the development of teaching materials for economic education in the high school. Designed primarily for principals, supervisors, and experienced teachers responsible for social study areas where economic education is taught. The Joint Council and Oregon Council on Economic Education are cooperating with the Portland Summer Session in this workshop. Forty scholarships will be available to qualified students. Limited enrollment. Registrants may elect to enroll for Ec 407. **Economic Problems.** (g) Requests for scholarship applications should be addressed to Robert J. Gridley, Coordinator of Workshops, 1633 S. W. Park Ave., Portland. Hummel, Halley, Smith and staff. Daily, 9:30 to 12:00 and 1:00 to 4:00, Room 203 SH.

(U) Ed 508. **Workshop: Education of the Gifted Child.** 3 or 6 hours. (June 20-July 15.)

A consideration of current knowledge of the nature and nurture of gifted pupils. Basic issues concerning identification of gifted pupils, enrichment in the regular classroom, ability grouping, acceleration, the underachiever, developing creativity and working with parents of the gifted will be explored. Participants will have experience in developing specific practical techniques for use in the classroom. Attention will be paid not only to the intellectually gifted but to the artistically talented pupil as well. Laboratory experiences will be provided in the use of science and art materials. Staff and resource people who have had experience with the

Portland Gifted Child Program will lead the workshop. Workshop open to elementary and secondary teachers and administrators. Limited enrollment. Students may either register for 6 hours of workshop or 3 hours of workshop and 3 hours of Ed 466 *The Gifted Child* (G) for a total registration of 6 hours. Wilson, Williams. Daily, 9:00 to 12:00 and 1:00 to 4:00. Room 271 SH.

(U) Ed 508. **Workshop: Educational Television.** 3 hours. (June 20-July 15.)

Of special interest to teachers who may lack background in the use of educational television as a teaching tool. Through individual and group study consideration will be given to the problems of integrating educational television materials into the school curriculum and the preparation of educational television programs. Effectiveness of techniques and evaluation of educational programs. Laboratory experiences in the actual production of programs through closed-circuit. Swenson, Shaffer. Daily, 9:00 to 12:00, Room 10 OM.

(U) PE 408. **Workshop: Camping Education and Recreation.** 6 hours. (June 20-July 15.)

An analysis of modern viewpoints in camp administration and organization; aspects of camp leadership techniques; principles and problems of leadership and group behavior as related to camping education; methods, techniques, and program practices in outdoor education. Emphasis on actual learning situations utilized to supplement class work including audio-visual aids, field trips, and directed laboratory experience in an organized camp. Students will live and work in an organized camp for a portion of the workshop. In-camp expense for board and room approximates \$4.00 per day to be paid at time service is rendered. **Good physical condition is imperative.** Open to elementary and secondary teachers and educators, camp, and recreation administrators and leaders and students. Limited enrollment. Rodney and special staff. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 249 SH.

(U) Rec 508. **Workshop: Camping Education and Recreation.** 6 hours.

Rodney and special staff. (See PE 408 *Workshop: Camping Education and Recreation*.)

(U) Sp 507. **Seminar and Practicum in Problems of Hearing Impaired Children.** 6 hours. (July 18-August 12.)

A seminar designed to give speech therapists, special education teachers, and others concerned with hearing impaired children opportunity to study problems associated with hearing impairment. Facilities of the Hosford School for the Deaf and children with hearing loss from schools throughout the state will be utilized for demonstration and actual practice in methods of speech reading, auditory training, and speech correction. The seminar will include discussion of theoretical and practical problems of hearing impairment as well as demonstrations and practice. Credit earned in this seminar will apply toward requirements for the Oregon Certificate to teach the hard-of-hearing as well as offering clinical practice time and credit toward Basic Certification in the American Speech and Hearing Association. Enrollment limited. For permission to enroll contact Dr. Herold Lillywhite, Crippled Children's Division, University of Oregon Medical School, Portland, Kent, Holeman. Daily, 8:00 to 12:00 (this constitutes a full-time load), Hosford School, 2303 S. E. 28th Place, Portland.

(U) Sp 507. **Seminar: Current Trends in Public School and Clinical Speech Correction.** 6 hours. (June 20-July 15.)

A seminar devoted to a study of the most recent developments in diagnostic and therapy aspects of public school and clinical speech correction. Attention will be paid to the broad area of the function of the speech correctionist in the public schools; including speech surveys, selection of case load, record keeping, grouping,

clinical therapy as compared with speech improvement, and trends in public school speech correction throughout the country. Latest developments in clinical diagnostic and therapy methods and procedures will be considered. Prerequisite: students enrolling must have completed all course work for State or ASHA Certification, or the equivalent. For permission to enroll contact Dr. Herold Lillywhite, Crippled Children's Division, University of Oregon Medical School, Portland, Wells. Daily, 8:00 to 12:00 (this constitutes a full-time load), Room 23, Shattuck School, 1914 S. W. Park Ave., Portland.

Three-Week Workshops

(U) Ed 508. **Workshop: Bill of Rights Education.** 6 hours. (June 20-July 8.)

An intensive study of the Bill of Rights and its place in American life today. Lectures by distinguished consultants and staff on the various amendments, their origins and status today; class discussions of recent Supreme Court decisions. Special emphasis on problems of political and moral censorship. Special workshop sessions for elementary teachers designed to deal with the problems of developing attitudes toward individual freedom and liberty through the use of selected materials; for intermediate teachers designed to deal with the problem of civil liberties and current events teaching; and for secondary teachers of English and social studies in particular dealing with methods and materials available for more extensive study of the Bill of Rights in American history, American problems courses and combined English-social studies courses. Special work available for concentration in political science problems. Bierman. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 201 SH.

Two-Week Workshops

(P) PE 15. **Dance Workshop: Basic.** Non-credit. (June 15-30.)

A special course in basic movement and dance techniques with creative studies. Credit opportunities available and optional. Inquiries should be addressed to Robert J. Gridley, Coordinator of Workshops, 1633 S. W. Park Ave., Portland. Erdman. Daily, 9:00 to 12:00, Auditorium, OM.

(P) PE 16. **Dance Workshop: Advanced.** Non-credit. (June 15-30.)

A course for dancers and dance teachers in techniques and composition culminating in a demonstration. Credit opportunities available and optional. Inquiries should be addressed to Robert J. Gridley, Coordinator of Workshops, 1633 S. W. Park Ave., Portland. Erdman. Daily, 1:00 to 4:00, Auditorium, OM.

(P) Wr 12. **Writers Conference.** (Fiction, Poetry, Juvenile Writing, Nonfiction.) Non-credit. (August 1-12.)

A lecture, workshop, and discussion program in creative writing (short story, the novel, poetry, juveniles, non-fiction books and articles). An opportunity will be provided writers, teachers, and others to participate in the processes of creative writing. Technical demonstrations, analysis of student writing, lectures and discussions will be conducted informally by the conference lecturers and consultants. Markets for creative and commercial writing will be evaluated and discussed. Students will have an opportunity to submit manuscripts for private criticism. Academic credit may be arranged by consulting Anthony Netboy, Conference Director, Portland Summer Session, 1633 S. W. Park Ave., Portland. Conference fee: \$50.00 two weeks; \$35.00 one week; \$20.00 per week for full-time Summer Session students enrolled in other courses. Registration will be accepted for either the first or second week or both weeks on non-credit basis. Credit students are required to enroll for both weeks. Leaders: Mary Lasswell (fiction); Anthony Netboy (non-fiction); Rolfe Humphries (poetry); Evelyn Sibley Lampman (juveniles). Daily, 1:30 to 4:30, Room 250 SH.

One-Week Workshops

- (P) AA 401. **Special Studies: Beginning Photography Workshop.** 2 hours. (July 20-26).

The purpose of the workshop is the enlargement of perception through camera work. Considerations will include awareness of the visual world, integration of exposure, film processing, and printing; and the handling of cameras. An essential feature and quality is concentration. For further information, contact the Museum Art School, S. W. Park Ave. at Madison St., Portland. White, Caponigro. WThF-MTu, 7:00 to 10:00 p.m., and Sat., Sun., 8:00 to 5:00 p.m., Museum Art School.

- (U) AA 501. **Special Studies: Advanced Photography Workshop.** 4 hours. (July 30-August 7.)

This workshop proposes the welding of the camera and light sensitive materials to be expressive-creative purposes of the student. It is proposed to achieve this through consideration of the zone system of previsualization, exposure and printing; photographing in such a way that the pictures are a projection of the personality of the individual; photography of the "found object" as done with documentary photography and in photography practiced as a medium of expression-creation. Method: photographing mornings, processing afternoons, for evening critiques. For further information, contact the Museum Art School, S. W. Park Ave. at Madison St., Portland. White, Caponigro. Daily, including Saturdays and Sundays, 9:00 to 12:00, 1:00 to 4:00, and 7:00 to 9:00, Museum Art School.

- (S) Ed 407. **Seminar: Workshop in Conservation Education.** 2 hours.

(Section I: July 24-30; Section II: July 31-August 6; Section III: August 7-13.) Study of forestry, lumber, fish and wildlife, soils, crops, irrigation, water and power potentials and outdoor living for elementary and secondary teachers. This workshop, offered in three identical sessions, will be held at Hoodoo Ski Bowl near the summit of Oregon's Santiam Pass, just off Highway 20. Students may enroll for one section only. Graduate students may register for Ed 508. **Workshop: Conservation Education** in lieu of Ed 407. **Seminar: Workshop in Conservation Education.** Not open to students who participated in any previous Conservation workshop offered in the Portland Summer Session. **Good physical condition is imperative.** Course fee, \$21.00; food and lodging for seven days, \$40.00; both sums are payable at the time of registration. **Registration must be completed on or before July 15.** Scholarships are available for qualified teachers. Applications should be addressed to Robert J. Gridley, Coordinator of Workshops, 1633 S. W. Park Ave., Portland. Hopson, Dart and special staff.

- (S) Ed 407. **Seminar: Workshop in Advanced Conservation Education.** 2 hours. (July 10-16.)

Resource management, stressing the interrelationships of resources and the basis of conflict and harmony in resource use in the Pacific Northwest. Water resources will be highlighted, and recreation, forest, wildlife, and soil resources will be studied in association with water. This workshop will be held at the facilities of the Portland General Electric Company at Timothy Lake, in the Mt. Hood National Forest. Prerequisite: the basic Conservation Workshop, held at Hoodoo Ski Bowl, or a college course in Conservation, or permission of the instructor. Graduate students may register for Ed 508 **Workshop: Advanced Conservation** in lieu of Ed 407 **Seminar: Workshop in Advanced Conservation.** **Good physical condition is imperative.** Course fee, \$21.00; food and lodging for seven days, \$31.50; both sums are payable at the time of registration. **Registration must be completed on or before July 1.** Brooks, Dart and special staff.

- (S) Ed 508. **Workshop: Conservation Education.** 2 hours.

Hopson, Dart and special staff. (See Ed 407 **Seminar: Workshop in Conservation Education.**)

- (S) Ed 508. **Workshop: Advanced Conservation Education.** 2 hours.

Brooks, Dart and special staff. (See Ed 407 **Seminar: Workshop in Advanced Conservation Education.**)

- (S) Ed 508. **Workshop: Conservation Education for Elementary School Principals.** 2 hours. (July 10-16.)

A special workshop related to outdoor education as it concerns the elementary school administrator, with emphasis on the areas of Conservation, Natural Resources and Recreation. This workshop, to be held at Hoodoo Ski Bowl, has been approved and recommended for elementary school administrators by the Oregon Elementary School Principals Association. **Good physical condition is imperative.** Course fee, \$21.00; food and lodging for seven days, \$40.00; both sums are payable at the time of registration. **Registration must be completed on or before July 1.** Scholarships are available. Applications should be addressed to Robert J. Gridley, Coordinator of Workshops, 1633 S. W. Park Ave., Portland. Hopson, Leavitt and special staff.

Post-Session Workshops

August 15-26

All Post-Session Workshops are of two weeks duration and offer 3 hours credit

- (U) ArE 401, 501. **Special Studies: Arts and Crafts for Teachers.** 3 hours.

Instruction in the use of basic tools and materials. An examination of art in the school curriculum. Pickens. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 317 OM.

- (C) Ed 410. **Methods and Research Materials: Elementary School Science.** (C) 3 hours.

Designed for elementary teachers who are interested in improving their science teaching. Attention will be given to the study of methods and materials as they relate to specific areas of science taught in the elementary grades. Emphasis will be given to the development of each teacher's own background of science. Leavitt, Yost. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 207 OM.

- (U) Ed 507. **Seminar: Recent Research in Reading.** 3 hours.

A seminar designed to give elementary and secondary teachers, reading teachers, and administrators an opportunity to study recent research in reading. Different views of specific areas in reading will be presented by leading educators. Huelsman, Kolson. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 150 SH.

- (S) Ed 508. **Workshop: Adolescent Problems.** 3 hours.

Role of the school administrator and classroom teacher in identifying and dealing with adolescent problems. Origin and development of behavior, both normal and deviate. Cooperation among school, home, community, and governmental agencies dealing with behavior problems. Schulz, Morrison and staff. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 249 SH.

- (U) Ed 508. **Workshop: Arithmetic.** 3 hours.

Through lectures and demonstrations, attention will be given to the problem of teaching arithmetic in the elementary grades. Opportunities will be provided for individuals to construct arithmetic teaching aids or to work on individual projects. Ruddell. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 102 OM.

- (S) IE 412. **Driver Education and Training.** 3 hours.

A basic course for preparation of teachers to conduct driver-training courses in

high schools. Actual behind-the-wheel instruction in a dual-control car supplied under the sponsorship of the American Automobile Association and the State Department of Education. Prerequisite: senior or graduate standing and teaching experience. Eales. Daily, 9:00 to 12:00 and 1:00 to 4:00, Room 101 SH.

(S) IE 507. **Seminar: Advanced Course in Driver Education.** 3 hours.

Designed especially for individuals who have completed the basic course and wish advanced training. Prerequisite: IE 412 and at least one year of teaching experience in driver-training instruction or consent of the instructor. Urlaub. Daily, 9:00 to 12:00 and 1:00 to 4:00. Room 103 SH.

Portland Summer Session Faculty

- BOWER ALY, Ph.D., Professor of Speech, University of Oregon.
 D. HOWARD BACKLUND, M.Ed., Assistant Professor of Secretarial Science, Portland State College.
 DONALD D. BARR, M.Ed., Instructor, Hayhurst School.
 ERNEST R. BARTLEY, Ph.D., Professor of Political Science, University of Florida.
 MALCOLM C. BAUER, B.S., Associate Editor, *The Oregonian*.
 INA M. BEASLEY, Ph.D., Principal Lecturer, Maria Grey College, Twickenham, Middlesex, England.
 BIRGER BERGENDAHL, B.A., Instructor, Calexico Union High School, California.
 HAROLD W. BERNARD, Ph.D., Professor of Education, General Extension Division and University of Oregon.
 JUDAH BIERMAN, Ph.D., Associate Professor of English, Portland State College and Portland Extension Center.
 ALMA I. BINGHAM, Ed.D., Assistant Professor of Education, Portland State College.
 JOSEPH C. BLUMEL, M.A., Assistant Professor of Economics, Portland State College.
 W. ARTHUR BOGGS, Ph.D., Associate Professor of English, Portland State College and Portland Extension Center.
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JEAN ERDMAN, Instructor in Dance.

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GEORGE S. INCEBO, Ph.D., Supervisor of Testing, Portland Public Schools.

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EVELYN SIBLEY LAMPMAN, B.S., Novelist.

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FRANZ LANCHAMMER, JR., Ph.D., Assistant Professor of Romance Languages, University of Oregon.

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- KIRT E. MONTGOMERY, Ph.D., Associate Professor of Speech, University of Oregon.
- CARL V. MORRISON, M.D., Director, Child Guidance Clinic, Portland.
- ROBERT MORTON, M.F.A., Instructor, Cleveland High School.
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- WILL V. NORRIS, Sc.D., Professor of Physics, Portland State College.
- RUDI NUSSBAUM, Ph.D., Associate Professor of Physics, Portland State College.
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- WILLIAM A. OLIVER, D.Ed., Assistant Superintendent, Portland Public Schools.
- E. BENNETT OWEN, M.A., Instructor, Dayton Public Schools.
- E. NELSON PAREIS, Ph.D., Assistant Professor of Psychology, Director of Counseling, Portland State College.

* Resignation April 1, 1960.

- WARREN H. PEPPERDINE, M.A., Technical Director, Portland Civic Theatre.
- H. FREDERICK PETERS, Ph.D., Professor of German and Comparative Literature, Portland State College.
- VERA D. PETERSEN, Ed.D., Associate Professor of Education, Portland State College and Portland Extension Center.
- VICTOR N. PHELPS, D.Ed., Associate Professor of Education, Portland State College.
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- IRVING POLONOFF, Ph.D., Assistant Professor of Philosophy, Portland State College and Portland Extension Center.
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- PHILIP C. ROBERTI, Ph.D., Associate Professor of Chemistry, Portland State College.
- WILLIAM A. ROCKIE, Instructor in Geography.
- LYNN S. RODNEY, Ph.D., Associate Professor of Physical Education, University of Oregon.
- LOUISE J. ROSENBAUM, Ph.D., Instructor in Mathematics.
- ARDEN K. RUDELL, Ed.D., Associate Professor of Education, University of California.
- MICHELE RUSSO, B.S.A., Instructor in Painting, Museum Art School, Portland.
- WERNER F. SCHLOTTHAUS, Ph.D., Lecturer, Department of German, Queen's University.
- ALFRED I. SCHMIDT, M.A., Teacher, Special Training Class, Bellflower City Schools, California.
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- BURKHARD SEUBERT, Ph.D., Instructor in German, University of Illinois.
- JOHN R. SHAFFER, Ed.D., Professor of Education, State University College of Education, Courtland, New York.
- KENNETH SHORES, M.F.A., Studio Technician, Oregon Ceramic Studio.
- MORRIS B. SILVERMAN, Ph.D., Assistant Professor of Chemistry, Portland State College.
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- EMMA H. STANTON, M.S., Instructor in Mathematics, Portland State College.
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- LINDA A. TAYLOR, B.S., Instructor, Youngson School.
- HENRY A. TEN PAS, Ed.D., Professor of Agricultural Education, Head of Department, Oregon State College.
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 MINOR WHITE, B.S., Lecturer, Rochester Institute of Technology, New York.
 CLIFFORD W. WILLIAMS, M.A., Supervisor, Gifted Child Program, Portland Public Schools.
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 GRAHAM C. WILSON, Ph.D., Professor of English, San Jose State College.
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 WILLIAM J. YOST, Ed.D., Professor of Education, University of Houston.
 LESLIE ZEIGLER, Th.D., Instructor in Religion, Oregon State College.
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General Extension Division

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

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

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

Administration and Staff

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

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

Portland Summer Session

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

Evening offerings have been expanded in recent years, for the convenience of students employed days during the summer. Numerous non-credit activities are offered, as well, many of these as part of the Portland Summer Session-Portland Extension Center program in Liberal Education for Adults.

Administration and Staff

JAMES C. CAUGHLAN, Ph.D., Director.
 CLARK SPURLOCK, D.Ed., Associate Director.
 MRS. GLADYS S. CARTER, M.A., Coordinator, Women's Group Services.
 FLOYD J. CAMPBELL, M.B.A., Head, Business and Labor Programs.
 MILTON K. DAVIS, Ph.D., Head, Management and Executive Development Programs.
 ANDRIES DEINUM, M.A., Film Consultant.
 ROBERT H. ENGLISH, M.A., Speech Therapist.
 DANIEL W. FULLMER, Ph.D., Director, Counseling Center for Adults.
 ROBERT J. GRIDLEY, Ed.M., Coordinator of Workshops.

JOHN F. JENKINS, M.Ed., Director, Placement Service; Director of Housing.
 CLIFFORD J. KOLSON, M.Ed., Reading Specialist.
 K. WILLIAM LEFFLAND, D.B.A., Coordinator, Liberal Education for Adults Program.
 RICHARD O. MARTIN, M.A., Director, Information Services.
 PAUL E. WATSON, Ed.D., Consultant in School Administration.
 TESS M. WILLIAMS, Coordinator, Educational Radio and Television.
 CHARLES F. ZIEBARTH, Ph.D., Coordinator, Inter-Institutional Programs for Business and Industry.
 MARIE E. BROWN, Summer Session Secretary.

Portland Extension Center

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

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

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

Department of State-Wide Services

The Department of State-Wide Services carries the State System's extension program to every section of the state. Any community in Oregon may be a meeting-place for State-Wide evening classes if a satisfactory faculty is provided and if enrollment is sufficient to cover actual operating costs.

State-Wide services include evening courses, correspondence courses, conferences, workshops, and consultant services to business, education, and other groups. For the convenience of residents throughout Oregon, State-Wide regional offices are maintained in Salem, Eugene, Corvallis, Monmouth, Ashland, and LaGrande. Inquiries directed to any of these offices will receive prompt attention.

Administration and Staff

VIRON A. MOORE, Ed.D., Director.
 HOWARD J. AKERS, D.Ed., Administrative Assistant; Director, Salem Extension Center and North-Central Oregon Regional Office.
 CHARLES D. DEAN, Ph.D., Head, Office of Correspondence Study; Coordinator, State-Wide Consultant Services.
 DONALD S. BRYANT, M.A., Regional Representative, Northwest Oregon Regional Office.
 JACK N. GOODMAN, M.A., Community Consultant.
 WILLIAM L. HITCHCOCK, Ed.D., Consultant in Guidance.
 CHARLES A. IVIE, M.A., Regional Representative, Eastern Oregon Regional Office.
 DONALD E. LOW, M.B.A., Business Consultant.
 DOROTHY D. SMITH, B.S., Director, Eugene Extension Center.

Department of Educational Radio and Television

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

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

Administration and Staff

JAMES M. MORRIS, Ed.D., Head of Department and Program Manager.
 ROBERT C. HINZ, B.A., Production Services Manager; News Editor.
 SHIRLEY J. HOWARD, B.S., Director of Women's Programs.
 PHILIP B. KALAR, Mus.B., Radio Production Supervisor; Music Director.
 BROOKS G. LEFFLER, B.A., Producer-Director.
 JOHN MACDONALD, B.A., Producer-Announcer.
 WILLIAM F. McGRATH, M.A., Educational Services Manager.
 LESTER G. MOCK, B.S., Television Production Supervisor.
 ELIZABETH PATAPOFF, B.A., Elementary School Programs.
 RICHARD W. POTTER, M.S., Producer-Director, Television Junior College.
 ROGER REYNOLDS, B.S., Producer-Announcer, Television Junior College.
 ROBERT RICHTER, B.A., Coordinator of State Department Programs.
 ROBERT M. ROBERTS, B.A., Producer-Announcer.
 MACK W. SCHWAB, M.A., Producer-Director.
 WILLIAM C. SMITH, B.S., Farm Programs.
 TESS M. WILLIAMS, M.S., Coordinator, Portland Educational Radio and Television Programs.
 KASLON K. ZOLLER, B.A., Production Director, Television Junior College.

Department of Visual Instruction

The Department of Visual Instruction provides educational film library service for schools, community clubs, and other organizations. More than 4,000 motion pictures and a small selection of color slides and filmstrips are available on a rental basis. A catalog of the selection may be obtained by writing the department. Other functions of the department include community consultant services in planning audio-visual programs, assistance with teacher workshops, demonstrations of teaching techniques in the use of a wide variety of audio and visual materials, consultation in planning county and city film services, a production program of motion pictures, and an artist service. Located on the campus of Oregon State College at Corvallis, the department is maintained jointly by the General Extension Division and the Federal Cooperative Extension Service. Branch libraries are located on the college campuses at Ashland and La Grande.

Administration and Staff

WILLIAM CURTIS REID, Ph.D., Head of Department.

JACK N. GOODMAN, M.A., Schools Specialist.

E. MILTON GRASSELL, M.A., Schools Specialist in Visual Instruction.

Institute of International Affairs

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

Administration and Staff

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JACK N. GOODMAN, M.A., Schools Specialist.

E. MILTON GRASSELL, M.A., Schools Specialist in Visual Instruction.

JOHN H. WATSON, M.A., Schools Specialist in Visual Instruction.

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JOHN H. WATSON, M.A., Schools Specialist in Visual Instruction.

Department of Visual Instruction

The Department of Visual Instruction provides instructional materials for use in the general extension program and other projects. More than 4000 audio-visual materials are available for use in the department. These materials are available in the form of films, slides, and other visual aids. The department also provides instruction in the use of these materials. The department is located in the Visual Instruction Building on the campus of Oregon State University in Corvallis, Oregon. The department is a part of the General Extension Division and is under the direction of William Curtis Reid, Ph.D., Head of Department.

IMPORTANT: Students are responsible for determining course prerequisites and any other conditions of enrollment in courses listed in this Class Schedule. These conditions of enrollment do not appear in the necessarily abbreviated Class Schedule listings of courses. They are stated, however, in the full course descriptions or elsewhere in this publication.

Schedule of Classes and Workshops

Portland Summer Session 1960

Dates: June 20-August 12

(Post-Session Workshops August 15-26)

Registrar's Office: 1734 S.W. Park Ave.

Business Office: 1724 S.W. Park Ave.

Administrative Offices: 1633 S.W. Park Ave.

Telephone: Capitol 6-6601

PORTLAND 1, OREGON



**General Extension Division
Oregon State System of Higher Education**

Schedule of Classes

SH designates State Hall, the new classroom building.

OM designates Old Main, the old classroom building.

Eight Weeks

8:00 a.m.

Number	Course Title	Instructor	Room
A 217.	Lettering. TuTh		
AA 312.	Creative Arts and Crafts for the Classroom Teacher. (Section I). TuWThF	Muller	317 OM
BA 111, 112, 113.	Constructive Accounting. TuWThF	Colescott	319 OM
Bi 326.	Comparative Vertebrate Embryology. (Lecture) TuWTh	Hinds	145 SH
Ch 411, 412, 413.	Inorganic Chemistry. (Lecture) MTuThF	Malcolm	301 SH
Ed 312.	Educational Psychology: Learning. (Section II). TuWThF	Silverman	306 OM
Ed 314.	Principles of Secondary Teaching. TuWThF	Malter	228 SH
Ed 344.	Physical Education in the Grades. TuWThF	Woll	214 OM
Ed 351.	Health Education. TuWThF	Tichy	Gym
Ed 356.	Methods and Materials: Reading in the Elementary School. (Section I). TuWThF	McNally	218 OM
Ed 407.	Seminar: Teaching Methods in Arithmetic. TuWThF	Bingham	207 OM
Ed 464.	The Mentally Retarded Child. (G) TuWThF	Owen	215 OM
Ed 490.	Psychology of Reading Instruction. (G) TuWThF	Schmidt	120 OM
Ed 476.	School Law and Organization. (G) TuWThF	Phelps	105 OM
Ed 485.	Principles and Practices of Guidance Services. (G) TuWThF	Meiold	103 OM
Ed 525.	Theory and Techniques of Educational Measurement. TuWThF	Hitchcock	224 SH
Ed 565.	Curriculum Foundations. TuWThF	Ingebo	104 OM
FN 225.	Nutrition. TuWThF	Ten Pas	113 OM
G 204, 205, 206.	Geology Laboratory. MTuWTh	Lowry	102 OM
GS 101, 102, 103.	Biological Science Survey. (Laboratory A). TuWThF	Van Atta	1 SH
GS 104, 105, 106.	Physical Science Survey. (Laboratory A). TuWThF	Winchell	310 OM
HE 450.	Elementary-School Health Education. (g) TuWThF	Lange	212 OM
Hst 203.	History of the United States. TuWThF	McNally	213 OM
Hum 407.	Seminar: Introduction to Communication. TuWThF	Kerr	110 OM
Mus 381.	Music Fundamentals. TuWThF	Bauer	106 OM
Psy 311.	Human Development. (Section II). TuWThF	Gustafson	349 SH
Psy 421.	Principles and Methods of Psychological Assessment. (g) TuWThF	Wilson	101 OM
Sp 483.	Speech Pathology. (G) TuWThF	Boyd	147 SH
		Lillywhite, and Staff	Shattuck School
Sp 484, 485, 486.	Clinical Speech Therapy. (G) TuWThF	Lillywhite, and Staff	Shattuck School

9:00 a.m.

AA 257.	Jewelry and Metalsmithing. MWThF	Morton	317 OM
AA 311.	Creative Arts and Crafts for the Classroom Teacher. MWThF	Colescott	319 OM
Anth 207.	Introduction to Cultural Anthropology. MWThF	Newman	101 SH
BA 111, 112, 113.	Constructive Accounting. TuWThF	Hinds	145 SH
Bi 326.	Comparative Vertebrate Embryology. (Laboratory). TuWTh	Malcolm	312 OM
Ch 226, 227.	Organic Chemistry. (Lecture). MTuThF	Ferguson, Robert	303 SH
Ch 411, 412, 413.	Inorganic Chemistry. (Laboratory). MTuThF	Silverman	306 OM
Ec 201.	Principles of Economics. MWThF	Lovell	147 SH
Ed 111.	Orientation to Teaching. MWThF	Cramer	120 OM
Ed 310.	School in American Life. (Section III). MWThF	Ferrier	103 OM
Ed 359.	Methods and Materials: Science and Mathematics. (Section III). MWThF	Owen	207 OM

NOTE: A group counseling session for all students who wish to begin a graduate program leading to the Master of Education degree from either the University of Oregon, Oregon State College, or Oregon State College of Education will be conducted Monday, June 20, in Room 71, State Hall, at 11:00 a.m.

Number	Course Title	Instructor	Room
Ed 424.	Measurement in Education. (G) (Section II). MWThF	Ingebo	104 OM
Ed 435.	Audio-Visual Aids. (C) (Section I). MWThF	Malter	215 OM
Ed 463.	The Maladjusted Child. (G) MWThF	Bernard	225 SH
Ed 486.	Occupational and Educational Information. (G) MWThF	Hitchcock	224 SH
Ed 487.	Counseling Techniques. (C) MWThF	Pierson	196 SE
Ed 508.	Workshop: Laboratory Class for the Mentally Retarded. MW	Taylor (L)	Eliot School
Ed 512.	Research Procedures in Education. MWThF	Mosher (H)	105 OM
Ed 572.	Public School Administration. MWThF	Watson	113 OM
Ed 574.	School Supervision. MWThF	Buelke	102 OM
Eng 388.	Children's Literature and Library. MWThF	Petersen	208 OM
Eng 488.	Literature for Teachers (g) MWThF	Boggs	106 OM
G 204, 205, 206.	Geology Laboratory. MTuWTh	Van Atta	1 SH
GS 101, 102, 103.	Biological Science Survey. (Laboratory A). TuWThF	Winchell	310 OM
GS 104, 105, 106.	Physical Science Survey. (Laboratory A). TuWThF	Lange	212 OM
HE 252.	First Aid. MWThF	McNally	214 OM
Hst 101.	History of Western Civilization. MWThF	Cox	149 SH
Hst 103.	History of Western Civilization. MWThF	Dmytryshyn	124 SE
Hst 476.	History of the West. (G) MWThF	Hofmann	101 OM
Mth 111.	Mathematics for Elementary Teachers. (Section I). MWThF	Flanagan	112 OM
PE 180.	Physical Education (Women). MWThF	Tichy	Gym
PE 190.	Physical Education (Men) MWThF	Tichy	Gym
PE 413.	Physical Education Workshop. (g) MWThF	Tichy	Gym
Ph 411, 412, 413.	Modern Physics. (G) MTuThF	Gurevitch	301 SE
Phl 203.	Elementary Logic. MWThF	Polonoff	221 SE
Psy 460.	Developmental Psychology I: Infancy and Childhood. (g) MWThF	Lyman	110 OM
Psy 524, 525.	Individual Intelligence Testing. MWThF	Boyd	111 OM
SL 50, 51.	First-Year Russian. Daily.	Weinberger	103 SE
Soc 417.	Criminology and Delinquency. (C) MWThF	Drum	121 OM
Sp 111.	Fundamentals of Speech. (Section II). MWThF	Gibson	228 SH
Sp 481.	Speech Pathology. (G) MWThF	Montgomery	45 SH
Sp 483.	Speech Pathology. (C) TuWThF	Lillywhite and Staff	Shattuck School
Sp 484, 485, 486.	Clinical Speech Therapy. (G) TuWThF	Lillywhite and Staff	Shattuck School
		Oliver	325 SH

SS 241, 242. Office Practice. MWThF

10:00 a.m.

AA 295.	Display Design. MTuThF	Muller	317 OM
Anth 307.	Peoples and Cultures of the World. MTuThF	Newman	101 SH
BA 111, 112, 113.	Constructive Accounting. TuWThF	Hinds	145 SH
Bi 326.	Comparative Vertebrate Embryology. (Laboratory). TuWTh	Malcolm	312 OM
Ch 226, 227.	Organic Chemistry. (Lecture). MTuThF	Ferguson, Robert	303 SH
Ch 411, 412, 413.	Inorganic Chemistry. (Laboratory). MTuThF	Silverman	306 OM
Ed 358.	Methods and Materials: Language Arts and Social Studies. (Section I). MTuThF	Mosher (L)	208 OM
Ed 410.	Methods and Research Materials: Arr. (C) MTuThF	Comfort	319 OM
Ed 410.	Methods and Research Materials: Reading. (G) MTuThF	Bingham	207 OM
Ed 424.	Measurement in Education. (G) (Section I). MTuThF	Mosher (H)	104 OM
Ed 435.	Audio-Visual Aids. (C) (Section II). MTuThF	Shaffer	215 OM
Ed 468.	Diagnostic and Remedial Instruction in Reading. (C) MTuThF	Kelson	224 SE
Ed 507.	Seminar: Comparative Education. MTuThF	Cramer	120 OM
Ed 508.	Workshop: Laboratory Class for the Mentally Retarded. MW	Taylor (L)	Eliot School
Ed 537.	Reading in the Elementary School. MTuThF	Bingham	207 OM
Ed 546.	Philosophy of Education. MTuThF	Ten Pas	214 OM
Ed 561.	Advanced Educational Psychology. MTuThF	Schulz	213 OM
Eng 109.	World Literature. MTuThF	Oliver	221 SE
G 204, 205, 206.	Geology Laboratory. MTuWTh	Van Atta	1 SH
Geog 105.	Introductory Geography. (Section I). MTuThF	Tschirley	371 SE
Geog 106.	Introductory Geography. MTuThF	Rockie	383 SH
GS 101, 102, 103.	Biological Science Survey. (Lecture). TuWThF	Winchell	303 OM
GS 104, 105, 106.	Physical Science Survey. (Laboratory B). TuWThF	Lange	212 OM
Hst 202.	History of the United States. MTuThF	Dahl	101 OM
Hst 382.	Near East in Modern Times. MTuThF	Cox	149 SH
Hst 391.	The Far East in Modern Times. MTuThF	Webb	103 OM
Hst 466.	Tudor England. (C) MTuThF	White	102 OM
Mth 102.	Plane Trigonometry. Daily.	Flanagan	112 OM
Mus 383.	Music Fundamentals (Teacher Education). MTuThF	Gustafson	349 SH
Mus 442.	Advanced Conducting. (G) MTuThF	Stebn	453 SE
Ph 411, 412, 413.	Modern Physics. (G) MTuThF	Gurevitch	301 SE
Phl 202.	Elementary Ethics. MTuThF	Polonoff	106 OM

Number	Course Title	Instructor	Room
PS 203.	American Governments. MTuThF	Greene	113 OM
PS 482.	The Legislature in American Government. (C) MTuThF	Bartley	111 OM
Psy 461.	Developmental Psychology II: Adolescence and Maturity. (g) MTuThF	Lyman	110 OM
SL 50, 51.	First-Year Russian. Daily	Weinberger	103 SH
Sec 442.	Community Welfare Organization. (g) MTuThF	Drum	121 OM
Sp 414.	Teaching Speech in the Secondary School. MTuThF	Gibson	228 SH
Sp 483.	Speech Pathology. (C) TuWThF	Lillywhite and Staff	Shattuck School
Sp 484, 485, 486.	Clinical Speech Therapy. (C) TuWThF	Lillywhite and Staff	Shattuck School
SS 241, 242.	Office Practice. MWThF	Oliver	325 SR
Wr 111.	English Composition. (Section III). MTuThF	Hughes	105 OM

11:00 a.m.

AA 195.	Basic Design. MWF	Prasch	317 OM
AA 313.	Creative Arts and Crafts for the Classroom Teacher. (Section I). MTuWF	Colescott	319 OM
BA 222.	Elements of Finance. MTuWF	Boyd	145 SH
BA 359.	Finance Management. MTuWF	Dehner	147 SH
Bi 326.	Comparative Vertebrate Embryology. (Laboratory). TuWTh	Malcolm	312 OM
Ch 411, 412, 413.	Inorganic Chemistry. (Laboratory). MTuThF	Silverman	306 OM
Ed 310.	School in American Life. (Section II). MTuWF	Ten Pas	214 OM
Ed 312.	Educational Psychology: Learning. (Section I). MTuWF	Malker	225 SH
Ed 358.	Methods and Materials: Language Arts and Social Studies. (Section III). MTuWF	Holboke	208 OM
Ed 359.	Methods and Materials: Science and Mathematics. (Section II). MTuWF	Owen	207 OM
Ed 410.	Methods and Research Materials: Music. (C) MTuWF	Gustafson	349 SH
Ed 410.	Methods and Research Materials: Social Studies. (C) MTuWF	Buelke	213 OM
Ed 451.	Preprimary Education. (C) MTuWF	Bingham	120 OM
Ed 507.	Seminar: Curriculum and Methods for Teaching Mentally Retarded. MTuWTh	Jones	Eliot School
Ed 507.	Seminar: Education in Under-Developed Countries. MTuWF	Beasley	104 OM
Ed 508.	Workshop: Laboratory Class for the Mentally Retarded. F	Taylor (L)	Eliot School
Ed 534.	Science in the Elementary School. MTuWF	Yost	228 SH
Ed 535.	Social Studies in the Elementary School. MTuWF	Buelke	213 OM
Ed 566.	Curriculum Construction. MTuWF	Leese	113 OM
Eng 104.	Appreciation of Literature. MTuWF	Ford	110 OM
Eng 469.	Main Currents in American Literature and Culture. MTuWF	Oliver	106 OM
Geog 323.	Geography of the Pacific Northwest. MTuWF	Roehl	371 SH
GL 60, 61.	First-Year Norwegian. MTuWF	Bergendahl	101 SH
GL 101.	Second-Year German. Daily	Schlotthaus	124 SE
GS 101, 102, 103.	Biological Science Survey. (Lecture). TuWThF	Winchell	303 OM
GS 104, 105, 106.	Physical Science Survey. (Laboratory B). TuWThF	Lange	212 OM
Hst 342.	Europe Since 1789. MTuWF	Webb	103 OM
Mth 10.	Elements of Algebra. MTuWF	Rempier	112 OM
Mth 203.	Differential and Integral Calculus. Daily	Byrne	121 OM
MuE 407.	Seminar: Band Techniques (G) MTuWF	Stehn	453 SH
MuE 533.	Music in the Elementary School. MTuWF	Gustafson	349 SH
PE 343.	Organization and Administration of Physical Education. MTuWF	Tichy	303 SH
Ph 411, 412, 413.	Modern Physics. (C) MTuThF	Gurevitch	301 SH
Phil 301.	Problems of Philosophy. MTuWF	Newhall	221 SH
PS 201.	American Governments. MTuWF	Bartley	111 OM
Psy 345.	Psychology of Motivation. MTuWF	Powloski	101 OM
Psy 465.	Motivation. (C) MTuWF	Powloski	101 OM
Soc 206.	General Sociology. MTuWF	Dean	224 SH
Sp 371.	Speech Science. MTuWF	English	45 SH
Sp 483.	Speech Pathology. (C) TuWThF	Lillywhite and Staff	Shattuck School
Sp 484, 485, 486.	Clinical Speech Therapy. (C) TuWThF	Lillywhite and Staff	Shattuck School
SSc 511.	Contemporary Developments in the Social Sciences. MTuWF	Dahl	102 OM
Wr 111.	English Composition. (Section I). MTuWF	Clarke	105 OM

11:30 a.m. to 3:30 p.m.

Ch 226, 227.	Organic Chemistry. (Laboratory). MTuThF	Ferguson, Roberti	302 OM
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12:00 Noon

Number	Course Title	Instructor	Room
AA 312.	Creative Arts and Crafts for the Classroom Teacher. (Section II). MTuWTh	Comfort	319 OM
AA 390.	Painting. Daily.	Prasch	317 OM
BA 121.	Introduction to Business and Industry. MTuWTh	Dodge	147 SH
BA 314.	Principles of Cost Accounting. MTuWTh	Boyd	145 SH
Ed 310.	School in American Life. (Section I). MTuWTh	Ferrier	214 OM
Ed 356.	Methods and Materials: Reading in the Elementary School. (Section III). MTuWTh	Holboke	207 OM
Ed 410.	Methods and Research Materials: Language Arts. (C) MTuWTh	Phelps	228 SH
Ed 410.	Methods and Research Materials: Arithmetic. (C) MTuWTh	Mosher (H)	213 OM
Ed 462.	Psychology of Exceptional Children. (C) MTuWTh	Taylor (E)	103 OM
Ed 507.	Seminar: Contemporary Development in British Education at the Lower-School Level. MTuWTh	Beasley	121 OM
Ed 536.	Language Arts in the Elementary School. MTuWTh	Phelps	228 SH
Ed 538.	Mathematics in the Elementary School. MTuWTh	Mosher (H)	213 OM
Ed 543.	History of American Education. MTuWTh	Cramer	113 OM
Ed 553.	Elementary School Curriculum. MTuWTh	Buelke	120 OM
Ed 575.	School Finance. MTuWTh	Hummel	347 SE
Eng 255.	Survey of American Literature. MTuWTh	Ford	110 OM
Eng 432.	Literature of the Renaissance. (C) MTuWTh	O'Donnell	106 OM
**Ed 358.	Methods and Materials: Language Arts and Social Studies. (Section II). MTuWTh	Mosher (L)	208 OM
C 201, 202, 203.	Geology. MTuWTh	Van Atta	225 SH
Geog 105.	Introductory Geography. (Section II). MTuWTh	Brooke	371 SH
Geog 329.	Geography of North America. MTuWTh	Tschirley	383 SH
GL 60, 61.	First-Year Norwegian. MTuWF	Bergendahl	101 SH
Hst 478.	History of the Pacific Northwest. (C) MTuWTh	Gilmore	102 OM
Mth 101.	College Algebra. Daily	Tauber	111 OM
Mth 111.	Mathematics for Elementary Teachers. (Section II). MTuWTh	Stanton	112 OM
Mus 382.	Music Fundamentals. MTuWTh	Foster	349 SH
Phil 445.	Ethics. MTuWTh	Newhall	221 SH
Psy 347.	Perception. MTuWTh	Lymna	104 OM
Psy 382.	Personality. MTuWTh	Powloski	101 OM
R 421.	Religion in Contemporary Society. (g) MTuWTh	Zeigler	224 SH
RL 50, 51.	First-Year French. Daily	Healy	103 SH
Sp 483.	Speech Pathology. (C) TuWThF	Lillywhite and Staff	Shattuck School
Sp 484, 485, 486.	Clinical Speech Therapy. (C) TuWThF	Lillywhite and Staff	Shattuck School
SS 121.	Typing. MTuWTh	Backlund	325 SH
Wr 113.	English Composition. (Section I). MTuWTh	Clarke	105 OM

12:30 p.m.

Ch 411, 412, 413.	Inorganic Chemistry. (Lecture). MTuThF	Silverman	306 OM
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1:00 p.m.

AA 313.	Creative Arts and Crafts for the Classroom Teacher. (Section II). TuWThF	Comfort	319 OM
Bi 353.	General Entomology. (Lecture). TuWTh	Malcolm	301 SW
Ec 203.	Principles of Economics. TuWThF	Blumel	145 SH
Ed 359.	Methods and Materials: Science and Mathematics. (Section I). TuWThF	Yost	207 OM
Ed 389.	Reading and Telling Children's Stories. TuWThF	Petersen	208 OM
Ed 493.	Observation and Evaluation of Teaching. TuWThF	Mosher (L)	213 OM
Ed 507.	Seminar: Arts and Crafts in Special Education. MTh	Schmidt	Eliot School
Ed 507.	Reading and Telling Children's Stories. TuWThF	Petersen	208 OM
Ed 507.	Seminar: Relationship of Some Recent Developments in the Behavioral and Natural Sciences. TuWThF	Watson, Dean,	
Ed 522.	Secondary-School Curriculum. TuWThF	Greene	111 OM
Eng 102.	Survey of English Literature. TuWThF	Leese	104 OM
Eng 107.	World Literature. TuWThF	Lill	224 SH
Eng 386.	Twentieth Century Literature. TuWThF	Boggs	106 OM
Eng 414.	Literary Criticism. TuWThF	Johnson	113 OM
Eng 507.	Seminar: Stephen Crane. TuWThF	Dahlstrom	110 OM
C 201, 202, 203.	Geology. MTuWTh	O'Donnell	105 OM
		Van Atta	225 SH

Number	Course Title	Instructor	Room
Geog 432.	Geography of Africa. (G) TuWThF	Brooke	371 SH
GL 50, 51.	First-Year German. Daily.	Schlotthaus	124 SH
GS 101, 102, 103.	Biological Science Survey. (Laboratory B). TuWThF	Winchell	310 OM
GS 104, 105, 106.	Physical Science Survey. (Lecture). TuWThF	Lange	53 SH
Hst 480.	The United States in the Twentieth Century. (G) TuWThF	Ginsure	102 OM
Mth 100.	Intermediate Algebra. (Section I). Daily.	Tauber	112 OM
Mth 412.	Higher Algebra. TuWThF	Byrne	121 OM
Ph 407.	Seminar: Nuclear Laboratory for High School Teachers. TuTh	Nussbaum	2 OM
PS 507.	Seminar: Relationship of Some Recent Developments in the Behavioral and Natural Sciences. TuWThF	Watson, Dean,	
		Greene	111 OM
		Pareis	101 OM
		Wesley	103 OM
		Zeigler	221 SH
		Healy	103 SH
		Griffith	101 SH
		Farah	147 SH
		James	120 OM
		Watson, Dean,	
		Greene	111 OM
		Hjert	109 OM
		Fay	45 SH
		Backlund	325 SH
Psy 201.	General Psychology. TuWThF		
Psy 313.	Human Development. (Section I). TuWThF		
R 462.	History of Great Religions. TuWThF		
RL 50, 51.	First-Year French. Daily.		
RL 60, 61.	First-Year Spanish. Daily.		
Sml 50, 51.	First-Year Arabic. Daily.		
Soc 204.	General Sociology. TuWThF		
Soc 507.	Seminar: Relationship of Some Recent Developments in the Behavioral and Natural Sciences. TuWThF		
Sp 364.	Play Direction. TuWThF		
Sp 493.	Principles and Techniques of Speech Correction. (g) TuWThF		
SS 122.	Typing. TuWThF		

2:00 p.m.

BI 353.	General Entomology. (Laboratory). TuWTh	Malcolm	313 OM
Ee 318.	Money and Banking. MWThF	Blumel	145 SH
Ed 356.	Methods and Materials: Reading in the Elementary School. (Section II). MWThF	Holboke	207 OM
Ed 390.	Enriching Children's Reading. MWThF	Petersen	208 OM
Ed 415.	Student Teaching: Elementary. Th	Brunner	Shattuck School
Ed 416.	Student Teaching: Secondary. TuTh	Wolf, Browne,	Lincoln
		McQuaig	High School
Ed 467.	Applied Mental Hygiene. (G) MWThF	Pareis	101 OM
Ed 484.	The Junior High School. (G) MWThF	Leese	104 OM
Ed 507.	Seminar: Arts and Crafts in Special Education. MTh	Schmidt	Eliot School
Ed 507.	Seminar: Materials and Devices in the Teaching of Science. MWThF	Yost	213 OM
Ed 507.	Seminar: Relationship of Some Recent Developments in the Behavioral and Natural Sciences. TuWThF	Watson, Dean,	
		Greene	111 OM
		Petersen	208 OM
		Dahlstrom	110 OM
		Reiser	371 SH
		Schlotthaus	124 SH
		Winchell	310 OM
		Lange	53 SH
		Rempler, Byrne	112 OM
		Nussbaum	2 OM
		Watson, Dean,	
		Greene	111 OM
		Wesley	102 OM
		Pareis	101 OM
		Griffith	101 SH
		Farah	147 SH
		James	120 OM
		Watson, Dean,	
		Greene	111 OM
		Montgomery	Room 22, Shattuck School
		English	45 SH
		Pepperdine	109 OM
		Johnson	113 OM
		Ford	106 OM
Sp 413.	Teaching Speech in the Elementary School. MWThF		
TA 305.	Principles of Educational Theater. MWThF		
Wr 112.	English Composition. MWThF		
Wr 411.	English Composition for Teachers. (g) MWThF		

3:00 p.m.

Number	Course Title	Instructor	Room
BA 238.	Salesmanship. MTuThF	Dodge	145 SH
Bi 353.	General Entomology. (Laboratory). TuWTh	Malcolm	313 OM
Ed 415.	Student Teaching: Elementary. Th	Brunner	Shattuck School
Ed 416.	Student Teaching: Secondary. TuTh	Woll, Browne,	Lincoln
		McQuaig	High School
Ed 507.	Seminar: Arts and Crafts in Special Education. MTh	Schmidt	Eliot School
Mth 331, 332.	Differential Equations. MWThF	Rempler, Byrne	112 OM
Ph 407.	Seminar: Nuclear Laboratory for High School Teachers. TuTh	Nussbaum	2 OM
TA 401.	Special Studies: Theater Arts Production. MTuThF	Pepperdine,	
		Hjert	109 OM

4:00 p.m.

Bi 353.	General Entomology. (Laboratory). TuWTh	Malcolm	313 OM
Ph 407.	Seminar: Nuclear Laboratory for High School Teachers. TuTh	Nussbaum	2 OM
TA 401.	Special Studies: Theater Arts Production. MTuThF	Pepperdine,	
		Hjert	109 OM

6:00 to 7:30 p.m.

Sp 211.	Interpretation. MW	Gibson	221 SH
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6:00 to 8:00 p.m.

AA 365.	Introduction to the History of Art. TuTh	Moller	303 SH
BA 111.	Constructive Accounting. (Section II). MW	Boyd	101 SH
BA 223.	Elements of Marketing. TuTh	Dodge	103 SH
BA 497.	Human Relations in Business and Industry. (g) MW	Davis	145 SH
BE 507.	Seminar: Practicum in Business Education. TuTh	Yerian	347 SH
Ee 334.	Government Control of Private Business. MW	Halley	249 SH
Eng 105.	Appreciation of Literature. MW	Johnson	345 SH
Eng 312.	Tragedy, Comedy, and Satire. TuTh	Dahlstrom	211 SH
FBE 463.	Investments. (G) MW	Dehner	247 SH
Geog 107.	Introductory Geography. TuTh	Tschirley	371 SH
Geog 407, 507.	Seminar: Regional Studies in the Geography of the Middle East. TuTh	Brooke	383 SH
GL 104.	Second-Year Norwegian. MW	Bergendahl	124 SH
Hst 201.	History of the United States. TuTh	Gilmore	105 SH
Hst 350.	Hispanic America. MW	Dahl	147 SH
Hst 418.	Studies in Western Civilization. (g) TuTh	Cox	124 SH
Hst 448.	History of Russia. (G) MW	Dmytryshyn	224 SH
Mth 425.	Elements of Statistical Methods. TuTh	Tauber	228 SH
Mus 197.	Chorus. MW	Foster	453 SH
Mus 323.	Choral Conducting. MW	Foster	453 SH
Mus 397.	Chorus. MW	Foster	453 SH
PE 406.	Special Problems: Folk and Social Dancing. MW	Dobson	Cym
PS 507.	Seminar: Urban Planning. TuTh	Bartley	147 SH
Psy 434.	Personality. TuTh	Smith	225 SH
Psy 450.	Abnormal Psychology. (g) TuTh	Smith	225 SH
Soc 338.	Marriage and the Family. MW	Dean	201 SH
Soc 437.	Sociology of Race Relations. (C) TuTh	Dean	249 SH
Soc 507.	Seminar: Rehabilitation of the Mentally Ill. MW	James	303 SH
SS 111.	Stenography. MW	Backlund	145 SH
Wr 113.	English Composition. (Section II). TuTh	Hughes	224 SH
Wr 214.	Business English. MW	Clarke	103 SH

6:00 to 8:30 p.m.

Mth 100.	Intermediate Algebra. (Section II). TuTh	Flanagan	203 SH
Mth 103.	Analytic Geometry. MW	Stanton	228 SH
RL 101.	Second-Year French. TuTh	Healy	247 SH
RL 107.	Second-Year Spanish. TuTh	Griffith	201 SH

6:00 to 9:30 p.m.

Number	Course Title	Instructor	Room
MPM 321.	Organization and Interpersonal Relations. MW	Martini	245 SH
MPM 429.	Production Management. (G) TuTh	Martini	245 SH
MPM 453.	Business Policies. (G) TuTh	Ziebarth	345 SH

7:30 to 9:30 p.m.

Hum 10.	Contemporary Man and His Problems. Tu	Newhall	71 SH
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8:00 to 10:00 p.m.

AA 290.	Painting. (Section II). TuTh	Fraach	303 SH
Anth 414.	Race and Culture. (G) MW	Newman	201 SH
Ec 415.	Economy of the Pacific Northwest. (G) MW	Halley	249 SH
Ec 440.	International Economics. TuTh	Blumel	249 SH
Eng 108.	World Literature. MW	O'Donnell	124 SH
Eng 203.	Shakespeare. MW	Lill	103 SH
Eng 407.	Seminar in Special Authors. (G) TuTh	Oliver	149 SH
FBE 466.	Business Cycles. (G) MW	Dehaer	247 SH
Geog 105.	Introductory Geography. (Section III). MW	Heiser	371 SH
Geog 425.	Geography of Conservation. (g) TuTh	Rockie	371 SH
GS 411.	History of Science. (g) MW	Lange	145 SH
GS 424.	Astronomy. (g) TuTh	Nussbaum	145 SH
GSt 330.	The Creative Process. MW	Polonoff	301 SH
Hst 102.	History of Western Civilization. TuTh	White	101 SH
Hst 473.	American Foreign Relations. (G) MW	Kerr	147 SH
Hst 490.	Problems of the Pacific. (g) TuTh	Webb	124 SH
Mus 434.	Applied Theory. (G) MW	Trudeau	349 SH
PS 434.	Political Theory: The American Tradition. (C) TuTh	Greene	147 SH
Psy 202.	General Psychology. MW	Pareis	221 SH
Psy 311.	Human Development. (Section III). MW	Powloski	303 SH
Psy 462.	Developmental Psychology. MW	Wesley	224 SH
R 423.	Philosophy of Religion. (g) MW	Zeigler	149 SH
Rec 407, 507.	Seminar: Program Leadership and Supervision. MW	Rodney	225 SH
Sp 111.	Fundamentals of Speech. (Section I). MW	Montgomery	101 SH
Wr 113.	English Composition. (Section II). TuTh	Boggs	103 SH

One Week

AA 401.	Special Studies: Beginning Photography Workshop. (July 20-26) WThFM Tu, 7:00 to 10:00 p.m., and Sat., Sun., 8:00 to 5:00 p.m.	White, Caponigro	Art Museum
AA 501.	Special Studies: Advanced Photography Workshop. (July 30-August 7) Daily, including Sat. and Sun., 9:00 to 12:00, 1:00 to 4:00, and 7:00 to 9:00.	White, Caponigro	Art Museum
(Ed 407.	Seminar: Workshop in Conservation Education. (Section I: July 24-30) (Section II: July 31-August 6) (Section III: August 7-13)	Hopson, Dart, and staff	Hoodoo Ski Bowl
(Ed 503.	Workshop: Conservation Education.		
(Ed 407.	Seminar: Workshop in Advanced Conservation Education.		
(Ed 508.	Workshop: Advanced Conservation Education. (July 10-16)	Brooks, Dart and staff	Timothy Lake
Ed 501.	Workshop: Conservation Education for Elementary School Principals. (July 10-16)	Hopson Leavitt, and staff	Hoodoo Ski Bowl

Two Weeks

Art 401, 501.	Special Studies: Arts and Crafts for Teachers. (August 15-26) Daily, 9:00 to 12:00 and 1:00 to 4:00	Pickens	317 OM
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Number	Course Title	Instructor	Room
Ed 410.	Methods and Research Materials: Elementary School Science. (G) (August 15-26) Daily, 9:00 to 12:00 and 1:00 to 4:00	Leavitt, Yost	307 OM
Ed 507.	Seminar: Recent Research in Reading. (August 15-26) Daily, 9:00 to 12:00 and 1:00 to 4:00	Hickman, Kohart	150 SH
Ed 508.	Workshop: Adolescent Problems. (August 15-26) Daily, 9:00 to 12:00 and 1:00 to 4:00	Schulz, Morrison and staff	249 SH
Ed 508.	Workshop: Arithmetic. (August 15-26) Daily, 9:00 to 12:00 and 1:00 to 4:00	Ruddell	102 OM
IE 412.	Driver Education and Training. (August 15-26) Daily, 9:00 to 12:00 and 1:00 to 4:00	Eales	101 SH
IE 507.	Seminar: Advanced Course in Driver Education. (August 15-26) Daily, 9:00 to 12:00 and 1:00 to 4:00	Urlaub	103 SH
FE 15.	Dance Workshop: Basic. (June 15-30) Daily, 9:00 to 12:00	Erdman	Auditorium, OM
FE 16.	Dance Workshop: Advanced. (June 15-30) Daily, 1:00 to 4:00	Erdman	Auditorium, OM
Wr 12.	Writers Conference. (Fiction, Poetry, Juvenile Writing, Nonfiction.) (August 1-12) Daily, 1:30 to 4:30	Netboy and staff	250 SH

Three Weeks

Ed 508.	Workshop: Bill of Rights Education. (June 20-July 8) Daily, 9:00 to 12:00 and 1:00 to 4:00	Bierman	201 SH
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Four Weeks

Ed 466.	The Gifted Child. (G) (June 20-July 15) Daily, 9:00 to 12:00 and 1:00 to 4:00	Wilson, William	271 SH
Ed 507.	Seminar: Curriculum Workshop for Experienced Teachers of the Mentally Retarded. (June 20-July 15) Daily, 8:00 to 12:00	Jones	Ellet School
Ed 508.	Workshop: Air and Space Education. (July 11-August 6) Daily, 9:00 to 12:00 and 1:00 to 4:00	Hans, Ferrier, Cody	Portland Air Force Base
Ed 508.	Workshop: Economic Education. (June 20-July 15) Daily, 9:30 to 12:00 and 1:00 to 4:00	Hummel, Halley, Smith, and staff	203 SH
Ed 503.	Workshop: Education of the Gifted Child. (June 20-July 15) Daily, 9:00 to 12:00 and 1:00 to 4:00	Wilson, Williams	271 SH
Ed 508.	Workshop: Educational Television. (June 20-July 13) Daily, 9:00 to 12:00	Swenson, Shaffer	10 OM
Ed 554.	Elementary School Supervision and Administration. (June 20-July 15) MWTuF, 12:00 to 2:00	Oliver	215 OM
(PE 408.	Workshop: Camping Education and Recreation.		
(Rec 508.	Workshop: Camping Education and Recreation. (June 20-July 15) Daily, 9:00 to 12:00 and 1:00 to 4:00	Rodney and staff	249 SH
Sp 487.	Audiology. (G) (June 20-July 15) TuWThF, 1:00 to 3:00	Engelberg	Crippled Children's Division
Sp 488.	Audiology. (G) (July 18-August 12) TuWThF, 1:00 to 3:00	Engelberg	Crippled Children's Division

Number	Course Title	Instructor	Room
Sp 507.	Seminar and Practicum in Problems of Hearing Impaired Children. (July 18-August 12) Daily, 8:00 to 12:00	Kent, Holeman	Hosford School
Sp 507.	Seminar: Current Trends in Public School and Clinical Speech Correction. (June 20-July 15) Daily, 8:00 to 12:00	Wells	Room 23, Shattuck School

Five Weeks

Ch 324.	Inorganic Semi-Micro Qualitative Analysis. (June 20-July 22) Lecture: W, 8:00 to 10:00 Laboratory: MTuTh, 9:30 to 12:30; W, 10:00 to 2:30	Mickelson Mickelson El Wardani	347 SH 307 OM 314 OM
GS 407.	Seminar: Oceanography. (June 20-July 22) MTuWTh, 3:00 to 6:00		

Six Weeks

AA 255.	Ceramics. (June 20-July 29) MTuWTh, 1:00 to 4:00	Shores	Art Museum
AA 290.	Painting, Section I. (June 20-July 29) MTuWTh, 9:00 to 12:00	Russo	Art Museum

Nine Weeks

Bi 204, 205, 206.	General Zoology. (June 20-August 19) Daily, start 8:00	Macnab	309 OM
Ch 104, 105, 106.	General Chemistry. (June 20-August 19) Lecture: Daily, 8:00 to 9:30 and 12:30 to 1:30 Laboratory: Daily, 9:30 to 12:00	Mickelson, Johnson, Churchley	303 OM 304 OM
Ph 201, 202, 203.	General Physics. (June 20-August 19) Lecture: Daily, 8:00 to 11:00 Laboratory A: Daily, 11:00 to 2:00 Laboratory B: Daily, 2:00 to 5:00	Norris	53 SH 3 OM 3 OM

Final Examination Schedule

DAY-TIME CLASSES will hold final examinations on Thursday and Friday, August 11 and 12 on the following schedule:

Classes which met at:	Will hold examinations:
8:00 a.m.	Thursday, August 11 8:00 to 10:00 a.m.
9:00 a.m.	Thursday, August 11 10:00 to 12:00 a.m.
10:00 a.m.	Friday, August 12 8:00 to 10:00 a.m.
11:00 a.m.	Friday, August 12 10:00 to 12:00 a.m.
12:00 m.	Thursday, August 11 12:00 to 2:00 p.m.
1:00 p.m.	Thursday, August 11 2:00 to 4:00 p.m.
2:00 p.m.	Friday, August 12 12:00 to 2:00 p.m.
3:00 p.m.	Friday, August 12 2:00 to 4:00 p.m.

EVENING CLASSES will hold final examinations during the final class meeting period shown in this class schedule.

CHAPTER I. THE DISCOVERY OF AMERICA. 1492-1498.

Year	Event
1492	Columbus discovers America
1493	Columbus returns to Spain
1494	Treaty of Tordesillas
1495	Columbus returns to Spain
1496	Columbus returns to Spain
1497	Columbus returns to Spain
1498	Columbus returns to Spain

CHAPTER II. THE DISCOVERY OF AMERICA. 1492-1498.