



1965-PORTLAND SUMMER TERM

Portland State College — Portland Continuation Center

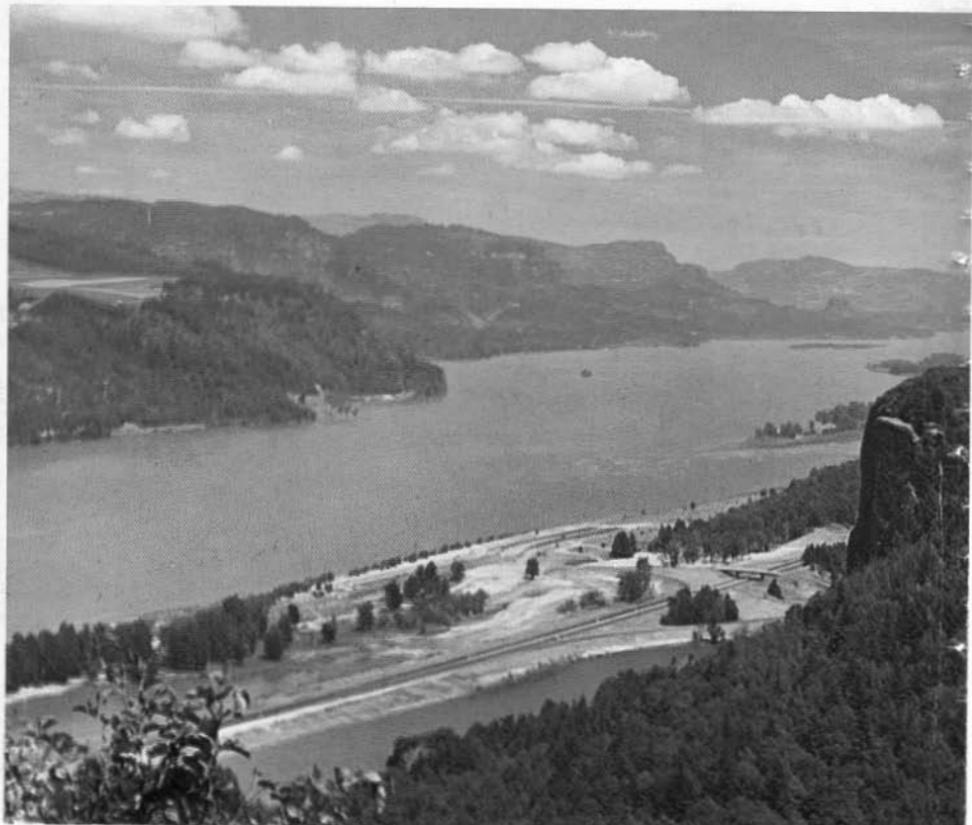


OREGON STATE SYSTEM OF HIGHER EDUCATION



GOLFING on lush green courses is a year-round sport. This course is at Neskowin.

CROWN POINT STATE PARK, and its Vista House, overlooking the famed Columbia River, east of Portland.



1965 PORTLAND SUMMER TERM

at

Portland State College
in cooperation with
Portland Continuation Center

Eight-Week Session: June 21-August 13

**Eleven-Week Session:
June 21-September 3**

Portland State College
P.O. Box 751
Portland, Oregon 97207

Portland Continuation Center
P.O. Box 1491
Portland, Oregon 97207

State Board of Higher Education*

	<i>Term Expires</i>
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Office of the State Board of Higher Education
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Oregon State System of Higher Education

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

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

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

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

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

Oregon Technical Institute offers technological curricula leading to associate degrees in technical and semi-professional areas.

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

1965

Portland Summer Term Calendar

JUNE

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

JULY

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

AUGUST

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

SEPTEMBER

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

Registration and Other Events

Business office and Registrar's office—724 S.W. Harrison Street

REGISTRATION TIMES: (Classes begin Tuesday, June 22)

June 14-18, Monday through Friday: 8:00 a.m.-4:30 p.m.

June 19, Saturday: 9:00 a.m.-12:00 noon

June 21-22, Monday and Tuesday: 8:00 a.m.-8:30 p.m.

June 23, Wednesday: 8:00 a.m.-4:30 p.m.

ADVISING: (Classes begin Tuesday, June 22)

June 14-18, Monday through Friday: 8:00 a.m.-4:30 p.m. For Portland State College students, in the Divisional offices; for Division of Continuing Education students, in the Portland Continuation Center Building at 1633 S.W. Park Avenue.

June 21, Monday: Group advising for master's candidates, Room 71 State Hall, 11:00 a.m.

June 21, Monday: Consultation and advising in instructor's offices.

EVENTS:

June 22, Tuesday: First day of classes for eight-week and eleven-week sessions.

June 24, Thursday: Late fee begins. Last day to enroll in class without instructor's signature.

June 28, Monday: Last day to register or make program changes, 9:00 a.m.-4:30 p.m.

July 5, Monday: Holiday.

July 7, Wednesday: Last day to withdraw without responsibility for grades (both 8 and 11 week terms). 8:00 a.m.-4:30 p.m. Students are responsible for grades in short courses after three calendar days.

August 12-13, Thursday and Friday: Final examinations for eight-week session.

August 13, Friday: Eight-week session ends.

September 2-3, Thursday and Friday: Final examinations for eleven-week session.

September 3, Friday: Eleven-week session ends.

WORKSHOPS, SEMINARS, SPECIAL PROGRAMS often meet on schedules all their own, and may require special fees. Please see Special Programs section of this bulletin and read the directions and course descriptions carefully.

Portland Summer Term

JAMES V. LILL, Ph.D., Co-Director for Portland State College

LEROY R. PIERSON, Ed.D., Co-Director for Portland Continuation Center

Portland Summer Term is conducted jointly by Portland State College and Portland Continuation Center, Division of Continuing Education.

The Summer Term offers a wide range of undergraduate and graduate courses from Portland State College and extensive selections, largely of graduate courses, from other institutions of the State System. Students may, by a single enrollment, register for courses offered by Portland State College and those offered by the Continuation Center for other state colleges and universities.

Portland Summer Term consists of an eight-week session, an 11-week session, and numerous special programs of two to four weeks duration. A substantial number of evening classes are included in the eight-week session. Classes are held on the Portland State College campus, except for certain specialized offerings which require off-campus or out-of-city locations.

Portland State College

Portland State College, a member of the Oregon State System of Higher Education, is a public institution in an urban setting. It offers undergraduate programs of study leading to the award of Bachelor of Arts and Bachelor of Science degrees and graduate work leading to five degrees, Master of Arts in German, Master of Arts in Education, Master of Arts in Teaching, Master of Science in Teaching, and Master of Social Work.

The college's principal function is to afford maximum educational opportunity to residents of Portland and its environs, the state's major urban area. No student housing is provided.

Baccalaureate programs are diversified. A student may choose to major in one of the 18 fields of the liberal arts and sciences, in general studies, or in one of three primary professional fields—teacher education, business administration or applied science.

In the liberal arts and sciences the student may become a candidate for the baccalaureate degree in Anthropology, Art, Biology, Chemistry, Earth Sciences, Economics, English, Foreign Languages, Geography, History, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology, or Speech-Theater Arts.

In addition, the student may pursue a program leading to a certificate in Central European Studies, Latin American Studies, Middle East Studies, Public Health or Urban Studies.

LOCATION. Portland State College, on the edge of downtown Portland, is in a four-block complex along the picturesque SW Park Mall. In terms of growth, Portland State is one of the most dynamic institutions of higher learning in the Pacific Northwest. A physical education building and the first unit of a science complex are now under construction, and several other major projects, such as an expanded library, are due for early construction.

HISTORY. Portland State College was founded as a degree-granting institution in February 1955. Its history, however, goes back to 1946 when Vanport Extension Center was established by the State Board of Higher Education to help absorb the student-veteran overflow after World War II. When Vanport was wiped out in the Columbia River flood in 1948, students and faculty moved to the former Oregon Shipyard site in Portland. The final move occurred in 1952 when the extension center took over the former Lincoln High School, now known as Old Main. State Senate Bill No. 1, establishing the center as a separate four-year college within the state system, was the first legislation to be signed into law by the late Governor Paul Patterson in 1955. Enrollment for fall term, 1964, was 7,587, consisting of 4,524 men and 3,063 women.

Portland Continuation Center

The Portland Center is one of several centers through which Oregon's Division of Continuing Education offers college and university courses drawn from various institutions comprising the State System of Higher Education. 1965 marks the forty-eighth year of summer session offerings by Portland Center.

Undergraduate Work

Admission as an undergraduate. The only requirement for admission to undergraduate classes in the Portland Summer Term is ability to do the work. Students should not, however, confuse registration in summer classes with admission to regular college standing. Students who desire to continue in a regular session or to receive credit toward a degree at Portland State College must be officially admitted to the college and should file an application and credentials with the Office of Admissions as early as possible.

Information concerning admission, advanced standing, credit transfer, residence and graduate requirements at any institution should be obtained from the registrar of that institution, whether within the Oregon State System of Higher Education or elsewhere.

Eight-week session maximum load. Twelve term hours* is the maximum credit which a student may earn in the eight-week summer

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

term, except that students may enroll for thirteen hours in combinations of four or fewer courses which list a total of not more than thirteen hours of credit. (Additional credit may be earned in courses which end prior to opening date of the eight-week term or which begin after the eight-week term has closed. Enrollment in such courses may be combined with eight-week classes under a single registration.)

Eleven-week session maximum load. Sixteen term hours is the maximum credit which a student may earn in the eleven-week summer term.

Graduate Studies

PORTLAND STATE COLLEGE. The college offers graduate programs in three professional fields as shown below:

Master of Social Work. The School of Social Work at Portland State College offers a two-year program leading to a master's degree in Social Work. The program of the School, which is fully accredited, prepares students for employment by public and private agencies in such areas as family and child welfare, corrections, physical and mental health, income maintenance, vocational rehabilitation, recreation and informal education.

Inquiries should be made to the Director of Admissions, School of Social Work, Portland State College. Early application is suggested.

Master of Arts in Education—Master of Science in Education. This degree is taken at Portland State College. Students are required to complete individually-planned graduate programs of at least 45 term hours to include not less than 24 hours in the Division of Education, and not less than 9 term hours in an academic field.

Conditions for admission to graduate standing, to candidacy for the degree, and procedures for advising are stated in the Portland State College catalog.

Master of Arts in Teaching—Master of Science in Teaching. Students who have prepared for teaching as undergraduates will find this degree well suited for meeting new certification requirements and advanced work in subject fields. Because the emphasis is upon teaching rather than research, the matter of a thesis or field study is not emphasized. It may be a requirement of certain departments for secondary majors.

Programs are individually planned with the aid of assigned advisers. A minimum of 9 quarter hours of professional courses and 30 quarter hours of academic courses must be included in the program.

Conditions for admission to graduate standing and to candidacy for

the degree are stated in detail in the Portland State College catalog. In general, students who do not qualify otherwise may be admitted provisionally and use this opportunity to establish their competence, through performance. Scores on the Graduate Record Examination, or similar tests, may be submitted if it appears necessary.

The Professional Diploma. Requirements for secondary teacher certification in Oregon, effective July 1, 1965, state that "a five-year standard teacher education program, the fifth year of which is a planned program," is required. For those who do not elect a master's degree, a planned program of 45 quarter hours in upper division or graduate work may be submitted. For this program Portland State College awards a Professional Diploma. Upper division work not carrying graduate credit may be presented. The program differs but little in its requirements from the MAT/MST. Detailed information is included in the Portland State College catalog.

Master of Arts in German. The Deutsche Sommerschule am Pazifik, established in 1958, offers a graduate study program leading to the M.A. degree in German, awarded by Portland State College. Prospective candidates are expected to have earned a B.A. with a concentration in the field of German from an accredited institution.

The student's performance in his first summer session at the Deutsche Sommerschule will determine his acceptance as a candidate for the M.A. degree. After one academic year of supervised study at a German university, he will finish his program in a second session at the Deutsche Sommerschule. Each study program will be tailored to the individual needs of the candidate.

Inquiries should be made to Professor Frederick Peters, Director of the Deutsche Sommerschule am Pazifik, Division of Humanities, Portland State College.

PORTLAND CONTINUATION CENTER. The Center makes available in the Portland Summer Term and in the evening classes throughout the regular academic year a substantial listing of graduate offerings. These are usually drawn from the University of Oregon at Eugene, Oregon State University at Corvallis, and Oregon College of Education at Monmouth.

Former students of Portland Continuation Center should note that in some fields the number of graduate offerings listed from the foregoing institutions is declining, this decline being in proportion to the growth of graduate work at Portland State College. Students planning to enter this summer on a graduate program taken through Portland offerings of the Division of Continuing Education should check with an adviser, giving careful consideration to the reduced availability of applicable courses, and to other restrictions on the completion of a degree by off-campus work.

Graduate programs to which courses currently available in the Portland Continuation Center Summer Term may be applicable are shown below.

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

The University of Oregon has a 30 credit hour residence requirement. This requirement may be met by attending three Portland Summer Terms, if applicable courses remain available. Oregon State University has a 12 credit hour residence requirement. This requirement must be met by attendance at the Oregon State University in Corvallis.

At both the above institutions the degree is regarded as a professional degree and not necessarily a research degree; however, at the University of Oregon a thesis or field study is required of candidates whose area of specialization is educational psychology.

At Oregon State University neither a thesis nor a field study is required under Options "B" or "C". Under Option "B" the student majors in Guidance with a minor in Psychology. The Option "C" major may be selected from Education, Physical Education, or Secretarial Science, with a minor as approved.

At the University of Oregon both qualifying and final examinations are written. Oregon State University may schedule written or oral final examinations, but no qualifying examination is required. Graduate work for a degree of Master of Education may be pursued with specialization in elementary or secondary fields, guidance, or in special education.

For the degree at either of these Oregon institutions, an integrated program is planned for each candidate. The programs are designed to improve the individual's competence as a teacher, supervisor, educational specialist or administrator. At the University of Oregon the following specialized areas have been incorporated into the division of school psychological services: education of exceptional children (mentally retarded, physically handicapped, gifted, emotionally/socially maladjusted, speech handicapped); remedial education (reading, spelling, arithmetic, handwriting); educational psychology (school psychology, school psychometry); and counseling psychology (school counseling, rehabilitation counseling, college personnel).

The student obtaining a degree in the area of school psychological services should expect to spend at least one summer term in residence at the University of Oregon in Eugene. For further information on this degree, the School Psychological Services of the School of Education at Eugene should be consulted.

Master of Science in Education. The degree may be taken from Oregon College of Education at Monmouth, from Southern Oregon College at Ashland, or from Eastern Oregon College at La Grande.

Oregon College of Education requires 24 hours of credit in residence. This requirement may be met by attending one Portland Summer Term

and one summer session on the Monmouth campus. Twenty-one hours may be transferred from the regular evening courses offered at Portland Continuation Center during fall, winter and spring quarters. Eastern Oregon College and Southern Oregon College accept a maximum of 15 hours of course work completed in the Portland Summer Terms.

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 Business Administration. Since fall term, 1961, programs leading to Master of Business Administration at the University of Oregon have been offered in Portland. Students working toward this degree may complete all the requirements in Portland through courses taught by regular University of Oregon School of Business Administration faculty. A selection of courses leading to the degree is offered during evening hours in the summer.

Master of Science in Health, Physical Education and Recreation. Since fall term, 1961, sequential programs leading to a Master of Science in Health, Physical Education and Recreation at the University of Oregon have been offered in Portland. However, 12 credit hours of residence on the Eugene campus will be required by the School of Health, Physical Education and Recreation.

Oregon State University courses in these areas are also available and can be used as majors for the M.Ed. degree.

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. A maximum of 15 hours of graduate work may be completed in Portland with the approval of the major department.

Advising. Advisers for any of the master's degrees in education and the Master of Arts and Master of Science degrees in Teaching will be available in Portland to assist students in planning programs and establishing candidacy for the degrees. Students should note that random accumulation of graduate credit does not establish qualification for any degree.

Advisers will be available from 9:00 to 5:00 p.m., June 14 to 18 and 9:00 to 11:30 a.m., June 19. Students interested in starting a master's degree program at Portland Summer Term should meet in Room 71 State Hall at 11:00 a.m. on Monday, June 21. Information will be presented concerning Portland State College master's degrees and also those master's degrees which may be taken at various State System institutions accepting graduate programs arranged through the Portland Continuation Center. Advisers will be available throughout the summer term, by appointment.

Admission to Candidacy. Graduate students enrolling in the Port-

land Summer Term who wish to apply their 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 program selected and take the qualifying examination (if one is required) at the earliest opportunity.

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

Maximum Load. 12 term hours of graduate credit is the maximum a student may earn in the eight-week term: Additional credit may be earned only in courses which end prior to the opening date of the eight-week term or which begin after the eight-week term has closed.

Registration Procedure

Students may register for summer term Monday through Friday, June 14-18, from 8:00 a.m.-4:30 p.m., Saturday, June 19, from 9:00-12:00 noon, and Monday and Tuesday, June 21 and 22, from 8:00 a.m.-8:30 p.m. The registrar's office is located at 724 SW Harriston Street.

Students living in Portland or vicinity are urged to register during the early registration period, June 14-19. Normally, registration may be completed more easily and quickly during this time.

Registration packets are available at the registrar's office. Signs will direct students to locations used in the registration process.

Procedure for Graduate Students. Enrollment for graduate credit is in general identical with enrollment for undergraduate credit. However, students electing graduate credit in any 400 numbered course with a graduate option (see course numbering system) must so indicate at the time of registration for the course; otherwise graduate credit cannot be granted and it is not retroactively granted.

Procedure for Veterans. Students who qualify under veterans benefits should check with the veteran's clerk in the registrar's office.

Summer Term Fees

Combined registrations for students of Portland State College and Portland Continuation Center Summer Term will be permitted. Certain courses such as those offered at locations other than the Portland State College campus or courses designated in the catalog as carrying special fees may not be combined under the single flat fee.

Registration Office Hours:

8:00 a.m.-4:30 p.m., Monday through Friday, entire session.

9:00-12:00 noon, last three Saturdays of June.

4:30-8:30 p.m., Monday and Tuesday, June 21 and 22.

Summer term registration fees are as follows:

Full time students and auditors (8 credit hours or more)

8-week session \$110.00

11-week session 110.00

Part time students and auditors

(for 7 credit hours or less) \$14.00 per credit hour (minimum \$28.00)

<i>No. of hours</i>	<i>Total</i>	<i>No. of hours</i>	<i>Total</i>
1 or 2 credit hours.....	\$28.00	5 credit hours.....	\$70.00
3 credit hours.....	42.00	6 credit hours.....	84.00
4 credit hours.....	56.00	7 credit hours.....	98.00

For non-credit college preparatory courses, charges shall be based upon units of time spent in class each week on a basis equivalent to \$14.00 per credit hour.

Short courses and workshops—follow above schedule according to credit hour load.

Special fees—late registration full time students (begins Thursday, June 24), not applicable to short courses, first day..... \$5.00

For each day thereafter..... 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, \$5.00.

Graduate qualifying examination fee \$1.00-\$15.00

Change of Program Fee, per course, added, dropped or changed from credit to audit or audit to credit \$1.00

Fee Refunds

Students whose official withdrawal from summer term 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 21 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

The Portland State College Library, located at S.W. Broadway and Montgomery, is "open-stack," with free access to all holdings except for books in the reserve collection. The Library is organized in subject divisions, Education on the first floor, Science and Social Science on the sec-

ond floor, and Humanities on the third floor. The Audio-Visual Department is in the basement.

Library cards are available at the circulation desk, ground floor, upon presentation of the student's tuition receipt. (*This receipt should be preserved, even when tuition payment is by check.*) A student who has a library card issued during the regular academic year should use this same card for Summer Term. This card will be validated for Summer Term use upon presentation of the student's tuition receipt.

Library hours for Summer Term are 7:30 a.m. to 8 p.m., Monday through Thursday, and 7:30 a.m. to 4:30 p.m. on Friday.

Facilities and Services

College Center. Eating facilities, bowling alleys, meeting rooms and lounge areas are available in the College Center. The building, which occupies a full block between S.W. Broadway and Park, Montgomery and Harrison, is open 7:30 a.m. to 8:30 p.m., Monday through Thursday, and until 4:30 p.m. Friday.

Counseling—Academic Advising. Regular academic advising on Summer Term Programs is available from Portland State College in appropriate divisional offices, and from Portland Continuation Center in its administrative offices at 1633 S.W. Park Avenue.

Student Personnel Services. Portland State College offers its Student Personnel Services the year round. This means that Counseling, Financial Aids, Placement, Health Service, and Student Activities are prepared to offer their services during the Summer Term. Locations of these services and the individuals in charge follow:

<i>Service</i>	<i>Location</i>	<i>Responsibility of:</i>
Counseling Center.....	1724 SW Park.....	Dr. Selby Clark
Financial Aids.....	203 CC.....	Mr. James Moore
Placement.....	115 OM.....	Mr. John Jenkins
Health Service.....	120 Lib.....	Dr. Gerald Harpole
Student Activities.....	442 CC.....	Mr. Peter Grundfossen

If additional student assistance is required, feel free to call the Dean of Students, 401 CC.

Portland Continuation Center Counseling: Portland Center maintains an advising service that emphasizes education and vocational fields. In addition, a comprehensive testing program is available to aid individuals in setting goals in line with their interests and abilities. This service is located in the Portland Center offices at 1633 SW Park Avenue.

Recreation. Portland and surrounding area offer unsurpassed recreational opportunities. With famed Mt. Hood only 60 miles to the east and the scenic Oregon beaches 90 miles to the west, Summer Term students

have a wide choice of *leisure time* activities. Portland itself has many beautiful parks and playgrounds, golf courses, swimming pools and tennis courts, and a modern zoo. Other outstanding facilities include the Oregon Museum of Science and Industry, the Portland Art Museum and Hoyt Arboretum.

A Summer Term recreational program, including conducted tours and sports competition, is under the direction of the College Center staff. Further information is available at the Office of Educational Activities, 442 College Center.

Housing. Portland Summer Term has no housing of its own, but efforts will be made to find accommodations for both students and summer faculty. Requests should be addressed to John F. Jenkins, Portland State College, P.O. Box 751, Portland, Oregon 97207.

Description of Courses

COURSE NUMBERING SYSTEM: Courses in this catalog follow 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) or the capital letters (GRAD) following the title of a 400 course indicates a course which may be taken for either major or minor graduate credit. A small (g) following the title of a 400 course indicates a course which is approved for graduate minor credit only.

Eight-Week Term

Anthropology

Portland State College Program

Anth 101. General Anthropology. (1st term) 3 hours. (PSC)

Principles and types of evidence for evolution; fossil primates and men; processes of race formation and disappearance; contemporary races.

Anth 321. Physical Anthropology. (2nd term.) 3 hours. (PSC)

Human Genetics. Debt of human population genetics to basic genetics. Application of evolutionary factors to the human situation. The genetic polymorphisms—blood groups, abnormal hemoglobins, haptoglobins, transferrins. Other traits in man putatively under simple genetic control Polygenic traits in man. Anthropological aspects of medical genetics. Prerequisites: Anth 101, Bi 251-253 and Bi 422.

Anth 341. The Individual and Culture. 3 hours. (PSC)

The role of culture in personality formation. Personality in relation to whole cultures, sub-cultures, and occupational, religious, and status groups. The role of the individual in culture change. Prerequisite: 9 hours in anthropology, sociology or psychology, and upper division standing.

Anth 349. Kinship, Family and Social Structure. 3 hours. (PSC)

The structural and functional analysis of social systems, with particular attention on the universal and variable patterns of human behavior. Cross-cultural perspectives on the forms and functions of marriage, tracing descent, the family, larger kin groups, and other associations in which organized social life occurs. Prerequisites: Upper division standing and 9 hours in anthropology or sociology.

Anth 407. Seminar: Peoples and Cultures of China. 3 hours. (PSC)

Anth 407. Seminar: Selection and Adaptation in Man. 3 hours. (PSC)

Anth 417. Indians of North America. 3 hours. (PSC)

Indian and Eskimo societies and cultures in pre-Columbian times; their origins, spread and distribution. Analysis of culture areas and culture types before con-

tact with Europeans. White-Indian contacts and the extent of cultural change. Contemporary communities and peoples in rural and urban U.S.A. and Canada. 9 hours of anthropology, or consent of instructor, and upper division standing.

Applied Science

Portland State College Program

ASc 213. Properties of Materials. 3 hours. (PSC)

Basic properties, behavior, and survey of industrial application of materials. Prerequisite: ASc 212.

ASc 214. Dynamics of Solids. 3 hours. (PSC)

Continuation of ASc 211. Principles and problems in kinetics; force as a factor causing motion, work, energy, friction, and impact. Prerequisite: ASc 211.

Art

Portland State College Program

AA 197. Basic Design. (3rd term) 3 hours. (PSC)

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

AA 203. Survey of the Visual Arts. (3rd term) 3 hours. (PSC)

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

AA 217. Lettering. 1 hour. (PSC)

Lettering, including a study of historic styles and of more recent adaptations of "built up" letter forms in contemporary use. Display Design students should take AA 217 before or concurrently with AA 299. Maximum credit: 3 term hours.

AA 256. Weaving. 2-3 hours. (PSC)

Introduction to basic weaving techniques. The dressing, care, and manipulation of several types of looms. Experimentation with a wider variety of fibers. Production of textiles or original design. Various types of looms may be used. Third credit hour requires completion of additional assigned work. Maximum credit: 9 term hours.

AA 290. Painting. 2-3 hours. (PSC)

Instruction in the use of oil color, water color, and other media. Third credit hour requires completion of additional assigned work. Maximum credit: 12 term hours.

AA 291. Drawing. 2-3 hours. (PSC)

Training in observation and selection of significant elements. Third credit hour requires completion of additional assigned work. Maximum credit: 9 term hours.

AA 292. Watercolor. 3 hours. (PSC)

The technique and use of water color and gouache, with special attention to its characteristics as a painting medium. Primary emphasis on landscape material. May be substituted for third term of AA 291 to meet lower division major requirement. Some previous work in drawing is recommended but not required. Open to non-majors.

AA 298. Sketching. 1 hour. (PSC)

Sketching from costumed models, to develop ability to observe clearly and record accurately. Offered especially for nonmajor students who have had no previous training in sketching or drawing. Maximum credit: 3 term hours.

AA 311, 312, 313. Art in the Elementary School. 3 hours each term. (PSC)

Arts activities for the elementary classroom teacher. Basic tools and materials. Planning the art program to meet the needs of the child. Art in the school curriculum. Art experiences in relation to child growth and development. Lectures and laboratory work. Prerequisite for AA 313 are AA 311 and 312.

AA 396. Advanced Figure Composition. (1st term) 3 hours. (PSC)

Advanced problems in design and figure composition. Work from the model is stressed. Various drawing and painting media are used. Prerequisite: 6 term hours in AA 290, 291 or AA 350, 351, 352 and consent of instructor.

AA 401. Special Studies. 2-4 hours. (PSC)

Terms and hours to be arranged. Consent of instructor and Executive Officer in Art. Maximum credit: 12 hours in any one area.

AA 415. Art in the Secondary School. (2nd term) 3 hours. (PSC)

A study of the secondary art program: content, teaching materials, methods, techniques of organized art experiences; the place of art in the curriculum. Lectures, readings, laboratory work, and discussion of classroom problems. AA 415 deals with special methods for junior high school art. Prerequisite: Admission to a program of teacher education and Ed 310, 312.

AA 446. History of Oriental Art. (GRAD) (1st term) 3 hours. (PSC)

Comparative study of architecture, sculpture, landscape design, and painting as expressions of individual and social experience in the cultures of the Far East. Indian and Indonesian. Open to non-majors.

AA 479. Printmaking. 3 hours. (PSC)

A laboratory course in graphic media including lithography, etching, woodcut and serigraphy with emphasis on development from drawing studies to print. Maximum credit: nine term hours. Prerequisites: upper division standing, and 9 hours of AA 291 or equivalent.

AA 490. Advanced Painting. (GRAD) 2-3 hours. (PSC)

Advanced painting theory and practice with particular emphasis on coordination of painting with architecture. Maximum credits: 6 term hours. Prerequisites: upper division standing; 12 hours of painting and consent of instructor.

AA 494. Advanced Sculpture. (GRAD) 2-3 hours. (PSC)

Advanced studies in sculpture. Special emphasis on coordination of sculpture with related fields of architecture, landscape, and interior design. Maximum credit, 6 term hours. Prerequisite: upper division standing; 12 hours of Sculpture and consent of instructor.

AA 501. Research: Painting. 2-4 hours. (PSC)**AA 503. Thesis.** 2-4 hours. (PSC)**AA 505. Reading and Conference.** 2-4 hours. (PSC)

Art Education

Portland Continuation Center Program

ArE 411. Methods and Research Materials: Art in Elementary Schools (G)
3 hours. (UO)

(See Special Programs Section.)

Biology

Portland State College Program

Bi 407. Seminar: Biometrics. 2 hours. (PSC)

Bi 422. Introduction to Genetics. 3 hours. (PSC)

A study of the mechanism of biological inheritance. Prerequisite: one year of a biological science, or consent of instructor.

Bi 507. Seminar: Biometrics. 2 hours. (PSC)

Business

Accounting

Portland Continuation Center Program

Ac 511. Accounting in Administration. (1st term) (p) 3 hours. (UO)

Accelerated introduction to principles and procedures of accounting and the use of accounting data as a basis for business decisions; intensive survey of the data-creating process, followed by study of asset valuation, income measurement, cost analysis and control, and budgeting. Open only to graduate students who have not completed a college-level course in accounting.

Business Administration

Portland State College Program

BA 111. Introduction to Business and Industry. 3 hours. (PSC)

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

BA 122. Principles of Management. 3 hours. (PSC)

A survey approach to the broad fundamental principles of management as a basic framework for managerial thinking and operating.

BA 211, 212, 213. Principles of Accounting. 3 hours each term. (PSC)

Technique of account construction; preparation of financial statements. Application of accounting principles to practical business problems. Required of majors, prerequisite to advanced work in business.

BA 214. Business Communications. 3 hours. (PSC)

Study of the purpose and effectiveness of communications in business. Analysis and writing in simulated business situations. Prerequisite: Wr 113.

BA 221. Production. 3 hours. (PSC)

Operating techniques used in administration of manufacturing plants together with application to other areas of business management; organization, supervision problems, employee relations, wage payment, output standards, plant location, equipment layout, scientific management.

BA 222. Finance. 3 hours. (PSC)

The financial problems of corporations. Organization of corporations; how they obtain long-term funds; management of working capital; distribution of securities. Prerequisite: BA 213.

BA 223. Marketing. 3 hours. (PSC)

Methods, policies, and problems. Private and cooperative channels, auctions, exchanges, middlemen; demand creation, assembly, standardization, packaging, financing, risk taking, distribution.

BA 238. Salesmanship. 3 hours. (PSC)

Salesmanship as a factor in distribution and service; analysis of the customer and his wants; methods of obtaining and holding customers; wholesale and retail sales processes, services, and principles of selling.

BA 314. Principles of Cost Accounting. 3 hours. (PSC)

Basic principles of cost measurement 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 213.

BA 329. Production Management. 3 hours. (PSC)

Problems, readings, and discussion of factory organization, production methods, operational controls, utilization of facilities, supervision and factory management. Prerequisite: BA 221.

BA 340. Advertising. 3 hours. (PSC)

Advertising as a factor in the distribution process; advertising agencies; evaluation and selection of advertising media for various types of business establishments; preparation of copy.

BA 359. Finance Management. 3 hours. (PSC)

Problems and case studies in management determinations respecting permanent capital, working capital, retention of earnings, bank loans, commercial credit, and administration policies. Prerequisite: BA 222.

BA 366. Marketing Management. 3 hours. (PSC)

Functions of management in the marketing process; promotion; planning, coordination of production and sales; customer relations; selection, training, and supervision of salesmen; administrative policies. Prerequisite: BA 223.

BA 367. Wholesaling Management. 3 hours. (PSC)

Identification and characteristics of the functions of wholesaling in consumer and industrial fields; evolution of wholesaling establishments; methods of operation and pricing; principles and policies, and current status of wholesaling in today's economy. Prerequisite: BA 223.

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

Comprehensive study of generally accepted principles of accounting and of conventional procedures for the measurement and presentation of financial data. Problems of theory applicable to income pricing, and to the more difficult but significant business transactions and interorganizational relationships. Prerequisite: BA 213.

BA 407. Seminar. Hours to be arranged. (PSC)**BA 407. Seminar: Public Relations.** 3 hours. (PSC)**BA 407. Seminar: Tax Policies and Decisions.** 3 hours. (PSC)**BA 411, 412. Business Law.** (1st and 2nd term) 3 hours each term. (PSC)

Basic rules of law for business conduct. Requirements in formation performance, and discharge of contracts. Personal property transfers and methods of protecting financial interests involved. Promissory notes and other negotiable papers. Laws related to organization and operation of businesses and business association.

BA 437. Real Estate Principles. 3 hours. (PSC)

Study of property interests and titles, deeds, mortgages, leases. Real estate brokerage and real estate finance. Valuation of property.

BA 438. Real Estate Practice. 3 hours. (PSC)

Organization and conduct of the real estate business; legal and ethical responsibilities of the broker; listing, advertising, and sales methods. Prerequisite: BA 416.

BA 451. Personnel Management. 3 hours. (PSC)

The personnel functions performed by the line executive or supervisor as well as the functions of the personnel manager, in relation to a most effective employment of industry's most expensive component, the acquisition, supervision, leadership and direction of the labor force. The problems encountered in personnel supervision; the causes of these problems, possible solutions and the future avoidance of these problems. Prerequisite: upper division standing.

BA 460. Purchasing. 3 hours. (PSC)

Significant managerial problems raised by purchase and control of materials, supplies, equipment, merchandise, and other procurement items for business or government organizations.

BA 462. Retail Management. 3 hours. (PSC)

Principles of organizing and operating retail institutions; store locations, store layout, buying and selling, operating activities, personnel and control.

BA 487. Advanced Cost Accounting. 3 hours. (PSC)

A continuation of BA 314 relating to presentation and analysis of cost information necessary for valuation, managerial planning and control. A study of standard costs, concepts of capacity of production in relation to overhead cost rates, direct or marginal cost theory, cost-volume-profit relationships, distribution costing and joint by-product costing. Prerequisite: BA 314.

Finance and Business Economics

Portland Continuation Center Program

FBE 517. Legal Environment of Business. (p) 3 hours. (UO)

Designed to provide a basic legal background for the study of business administration; contracts, agency, business organization, and fields within the framework of the Uniform Commercial Code; international aspects of law and business.

Marketing, Insurance, and Transportation

Portland Continuation Center Program

MIT 511. Administration of the Marketing Function. (p) 3 hours. (UO)

Significance of marketing in an industrialized economy; marketing strategy and its relation to profits and competition; consumer demand and motivation; promotion and price analysis in marketing; promotion programs and the sales function; location decisions and demographic influences.

Chemistry

Portland State College Program

Ch 106. General Chemistry. (3rd term) 4 hours. (PSC)

For students majoring in medical technology, pre dental, nursing, and liberal arts. Prerequisite: high school algebra or consent of instructor.

Ch 223. Qualitative Analysis and Electrolytic Solutions. 4 hours. (PSC)

Elementary principles of solution chemistry with an emphasis on chemical equilibrium and qualitative analysis. Primarily for the entering freshman with a superior chemistry background; also recommended for students completing Ch 106 or 203 who wish to major in Chemistry. Not open to the student with credit in Ch 206. Prerequisites: Ch 106, 203 or consent of instructor.

Ch 234. Quantitative Analysis. 5 hours. (PSC)

Principles of gravimetric analysis and volumetric analysis. Designed for pharmacy, pre dental, premedical, and medical-technology students. Prerequisite: Ch 106 or 206.

Ch 340. Elementary Physical Chemistry. 4 hours. (PSC)

The study of solutions, equilibria, kinetics, thermochemistry and pH measurements, particularly oriented toward students in biological-type sciences.

Ch 507. Seminar: Physical Chemistry. 4 hours. (PSC)

Portland Continuation Center Program

Ch 226, 227. Organic Chemistry. 5 hours each term. (OSU)

Service course covering aromatic and aliphatic chemistry. Prerequisite: Ch 203 or 241, or consent of instructor.

Economics

Portland State College Program

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

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

Ec 212. Outlines of Economics. 3 hours. (PSC)

A rapid survey of the principles of economics and economic institutions. A maximum of three hours credit is allowed for Ec 201 and 212.

Ec 407. Seminar: Economic Development. 3 hours. (PSC)**Ec 411. Monetary and Banking Theory.** (GRAD) (1st term) 3 hours. (PSC)

Analysis of the nature of money, effects of changes in money supply, monetary controls used by the Federal Reserve System and Treasury, international repercussions of domestic monetary policies, international banking agencies; critique of various monetary policies. Prerequisite: Ec 201, 202, 203.

Ec 417. Contemporary Economic Problems. (GRAD) 3 hours. (PSC)

A study of contemporary economic conditions and problems; analysis of policies and practices affecting such conditions. Prerequisite: Ec 201, 202, 203.

Ec 440. International Economics. (GRAD) (1st term) 3 hours. (PSC)

Theory of international trade tariffs and other policies; international monetary relationships, capital movement, problems of balance of payments adjustment, and international organizations. Prerequisite: Ec 201, 202, 203.

Ec 450. Comparative Economic Systems. (GRAD) 3 hours. (PSC)

Analysis and appraisal of contemporary economic systems; capitalist, socialist, fascist, communist. Prerequisite: Ec 201, 202, 203.

- Ec 487. American Economic History.** (GRAD) (1st term) 3 hours. (PSC)
 Origin, development and functioning of economic institutions including those in industry, agriculture, commerce, transportation, labor, and finance. Analyzes the economic progress of the United States. Required of majors. Prerequisite: Consent of instructor.
- Ec 507. Seminar: Economics for Teachers.** 3 hours. (PSC)

Portland Continuation Center Program

- Ec 417. Contemporary Economic Problems.** (g) 3 hours. (UO)
 Contemporary economic conditions and problems; analysis of economic policies and practices affecting such problems. Prerequisite: Ec 201, 202, 203.
- Ec 440. International Economics.** (G) (1st term) 3 hours. (UO)
 Theory of international trade; problems in balance-of-payments adjustments during critical periods; commercial policies of the more-important nations; international economic organizations in theory and practice. Prerequisite: Ec 201, 202, 203.
- Ec 445. Organized Labor.** (G) 3 hours. (UO)
 Theories of the labor movement; history of the American labor movement; aims, methods, and policies of trade unions, conservative and radical; the impact of labor organizations on the American economy. Prerequisite: Ec 201, 202, 203.
- Ec 487. American Economic History.** (G) (1st term) 3 hours. (UO)
 All phases of the economic development of the United States.

Education

Portland State College Program

- Ed 310. School in American Life.** 3 hours. (PSC)
 A course designed to acquaint prospective teachers with the historical and philosophical background and development of the American public school. Special attention will be given to the development of the present day curricular practices and to the function of the school in contemporary American society. Prerequisites: Admission to the program of studies in teacher education.
- Ed 312. Educational Psychology: Learning.** 3 hours. (PSC)
 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. School observations supplement theoretical study. Prerequisites: Admission to the program of studies in teacher education, and 9 hours of Psychology including Human Development.
- Ed 314. Principles of Secondary Teaching.** 3 hours. (PSC)
 Principles, procedures, and problems of classroom teaching; the organization of subject matter and different methods of presentation, implications for methods of individual and group differences, motivation, and discipline; measuring and evaluating the results of teaching. Public school classroom observations are required. Prerequisites: Admission to the program of studies in teacher education, and Ed 310, Ed 312.

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

A study of method and materials in organizing, conducting and evaluating the elementary school physical education program and the significance of its elements. Theory and practice with emphasis upon basic principles and implications from child growth and development characteristics which guide and determine teaching method and selection of class content. Prerequisites: Admission to the program of studies in teacher education, and Ed 310, Ed 312.

Ed 351. School Health Programs. 3 hours. (PSC)

Teaching of health education with emphasis on health knowledge, health attitudes and health habits of school children, and the development of a health-service program. Special study of the state health-education program. Prerequisites: Admission to the program of studies in teacher education, 9 hours of Biological Science, and Ed 310, Ed 312.

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

The place of reading in the modern elementary school. Trends and practices in reading instruction and prevention of reading difficulties. A study of appropriate materials and methods. Classroom observation. Prerequisites: Admission to the program of studies in teacher education, and Ed 310, Ed 312.

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

Trends and practices in listening, speaking, spelling, handwriting and English. Educational objectives of social studies and social problems of elementary school pupils. Organization and planning of a unit of work. Attention will be given to appropriate methods and materials in language arts and social studies. Classroom observation is required. Prerequisites: Admission to the program of studies in teacher education, and Ed 310, 312.

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

Science and mathematics in the elementary schools. Methods in the area of science, including experiments, demonstrations. Publications and other 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. Prerequisites: Admission to the program of studies in teacher education, and Ed 310, Ed 312.

Ed 370. Methods and Materials: Health and Physical Education. 3 hours. (PSC)

The basis for and significant elements of health education and physical education in the elementary school. Emphasis is placed upon trends, desirable practices and basic principles in the selection and use of instructional techniques and materials. Prerequisites: Admission to the program of studies in teacher education, 9 hours of biological science, and Ed 310, Ed 312.

Ed 388. Children's Literature and Library. 3 hours. (PSC)

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

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

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

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

A study of the enrichment of children's reading through literature. An advanced

course designed for parents and teachers of nursery, kindergarten, and elementary school children. Prerequisites: Ed 388 or consent of instructor.

Ed 401. Special Studies. Hours to be arranged. (PSC)

Prerequisite: Consent by signature of instructor.

Ed 405. Reading and Conference. Hours to be arranged. (PSC)

Prerequisite: Consent by signature of instructor.

Ed 407. Seminar: Teaching of Foreign Languages. (Elementary and Secondary) 3 hours. (PSC)

(See Special Programs Section.)

Ed 407. Seminar: The Ungraded Primary. 3 hours. (PSC)

(See Special Programs Section.)

Ed 407. Seminar: Workshop in Instructional Media and Technology. 3 hours. (PSC)

(See Special Programs Section.)

Ed 408. Special Secondary Methods: Business Education. 3 hours. (PSC)

Problems and methods in selecting and organizing materials for instruction; comparison and evaluation of methods, laboratory techniques, supplies, equipment; economy of time and materials. Prerequisites: Admission to the program of studies in teacher education, and Ed 310, Ed 312.

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

Problems and methods in selecting and organizing materials for instruction; comparison and evaluation of methods, laboratory techniques, supplies, equipment; economy of time and materials. Prerequisites: Admission to the program of studies in teacher education, and Ed 310, Ed 312.

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

Problems and methods in selecting and organizing materials for instruction; comparison and evaluation of methods, laboratory techniques, supplies, equipment; economy of time and materials. Prerequisites: Admission to the program of studies in teacher education, and Ed 310, Ed 312.

Ed 415. Student Teaching: Elementary. 6 hours. (PSC)

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: 2.50 GPA in professional courses, 2.25 GPA in areas of concentration, 9 hours of methods courses including reading, adequate background in subject areas. Admission by application only.

Ed 416. Student Teaching: Secondary. 6 hours. (PSC)

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. Courses include a) English, b) social science, c) science, d) mathematics, e) music, f) art, g) modern foreign languages, h) business education, j) health and physical education. Weekly seminar. Prerequisites: 2.50 GPA in professional courses, 2.50 GPA in the teaching norm, a course in secondary school methods, and adequate background in a teaching field. Admission by application only.

Ed 424. Measurement in Education. (GRAD) 3 hours. (PSC)

Use and interpretation of standardized tests; test planning; item writing; essay testing; administration and scoring; analysis of scores; simple statistics of test interpretation. Students preparing to teach should complete student teaching before enrolling in this course. A special section (b) will be organized to deal with tests and measurements in physical education. Prerequisite: 9 hours of psychology.

Ed 435. Audio-Visual Aids. (GRAD) 3 hours. (PSC)

The development and use of audio-visual aids in education. Emphasis on actual learning situations in which radio, recordings, films, slides, pictures, maps, charts, etc., are utilized. Sources of materials and equipment; administration of audio-visual programs. Prerequisite: Admission to the program of studies in teacher education or consent of instructor.

Ed 440. History of Education. (GRAD) 3 hours. (PSC)

A general review of the growth and development of education in relation to the civilization of the times; emphasis is placed upon the development of educational theories at various points in history.

Ed 442. Group Dynamics. (GRAD) 3 hours. (PSC)

Analysis of the dynamics of group interaction; significance and application of the principles of group behavior for the group worker. Prerequisites: 9 hours of sociology and/or psychology, and completion of 135 hours.

Ed 446. Philosophy of Education. (GRAD) 3 hours. (PSC)

Study and comparison of the philosophical bases of educational ideas and of the educational implications of philosophical thought. Prerequisites: Admission to the program of studies in teacher education, 6 hours of Philosophy, and Ed 310, Ed 312, or consent of instructor.

Ed 450. Early Childhood Education: Curriculum Patterns. (GRAD) 3 hours. (PSC)

A study of attitudes, group adjustment, and habits of work of the preprimary school child. Attention will also be given to the philosophy and curriculum of the pre-school program with some attention to procedure and methods. Prerequisites: Admission to the program of studies in teacher education, and Ed 310, Ed 312.

Ed 462. Psychology of Exceptional Children. (GRAD) 3 hours. (PSC)

Physical and psychological characteristics of exceptional children and necessary educational adaptations.

Ed 464. The Mentally Retarded Child. (GRAD) 3 hours. (PSC)

Physical, social and psychological factors contributing to the educational problems of the mentally handicapped child; consideration of necessary educational adaptations.

Ed 467. Mental Hygiene. (GRAD) 3 hours. (PSC)

A study of the development of personality, personality conflicts, mechanisms of adjustment, and the basic principles of mental hygiene. Emphasis is placed on the special problems of teachers and of children in a classroom setting. Prerequisite: 9 hours of psychology.

Ed 469. Developmental Reading. (GRAD) 3 hours. (PSC)

A course designed to develop understanding of, and competencies in, a program of pupil progress and growth in reading from kindergarten through grade twelve. Deals with such basic aspects as readiness, skills in diagnosing pupils' needs, the interrelatedness of reading with other language understandings, study skills in the various content areas, development of word perception skills, reading rate, and comprehension. Identifies applicative activities and procedures found in a continuous progress program for individual growth in use of reading as a tool for

understanding ideas and concepts found in the curriculum; for developing effective language skills in thinking as applied to in-school and out-of-school experiences; and those used for developing higher level insights and appreciation of written and spoken language. Separate classes may be scheduled for elementary and secondary teachers.

Ed 481. Guidance for the Classroom Teacher. (GRAD) 3 hours. (PSC)

A study of the responsibilities and procedures of teachers for guiding students at all levels in becoming more effective and capable persons. Prerequisite: completion of 135 hours.

Ed 484. The Junior High School. (GRAD) 3 hours. (PSC)

Development of the junior high school, its purpose and objectives. Characteristics and needs of the early adolescent; the curriculum, instructional techniques, and guidance programs designed to fill these needs. Present practices in administration, organization, and practice in representative junior high schools may be examined. Prerequisites: Senior standing or consent of instructor.

Ed 485. Principles and Practices of Guidance Services. (GRAD) 3 hours. (PSC)

The need for guidance services in schools, tests; inventories, questionnaires and records; the role of the home and the community in guidance; counseling the individual student. Prerequisite: completion of 135 hours.

Ed 493. Observation and Evaluation of Teaching. 3 hours. (PSC)

Opportunity for experienced teachers to observe modern trends in schools and other institutions, and to discuss educational theories and practices. A limited number can be assigned to the few places available for this course. Selection will be made from written applications filed in advance with the Director of Student Teaching.

Ed 501. Research. Hours to be arranged. (PSC)

Prerequisite: Consent by signature of instructor.

Ed 503. Thesis. Hours to be arranged. (PSC)

Prerequisite: Consent by signature of instructor.

Ed 505. Reading and Conference. Hours to be arranged. (PSC)

Prerequisite: Consent by signature of instructor.

Ed 507. Seminar. 3 hours. (PSC)

Ed 507. Seminar: Altering Curricular Patterns in American Secondary Education. 3 hours. (PSC)

(See Special Programs Section.)

Ed 507. Seminar: Audio-Visual Services for School Librarians. 3 hours (PSC)

This seminar is for elementary and secondary school librarians. The purpose is to provide an intensive course in the principles, techniques and organization of audio-visual services for their school. Emphasis will be placed on new media theories of communication, types of equipment, bibliographical information on materials and sources, organization and administration of audio-visual programs and related matters, including facilities and in-service training techniques. Participants will complete a proposed plan for their own school, integrating existing and future audio-visual services and materials within the school library. Enrollment is limited.

Ed 507. Seminar: Clinical Supervision. 3 hours. (PSC)

(See Special Programs Section.)

Ed 507. Seminar: Comparative Education. 3 hours. (PSC)

Ed 507. **Seminar: Current Practices, Problems and Proposals in Secondary Education.** 3 hours. (PSC)

(See Special Programs Section.)

Ed 507. **Seminar: Evaluation of the Secondary School.** 3 hours. (PSC)

Ed 507. **Seminar: Inter-Group Relations.** 3 hours. (PSC)

(See Special Programs Section.)

Ed 507. **Seminar: Oregon School Law.** 3 hours. (PSC)

Ed 507. **Seminar: Reading and Telling Children's Stories.** 3 hours. (PSC)

Ed 507. **Seminar: Recent Educational Trends and Problems in the Sunday School.** 3 hours. (PSC)

Ed 507. **Seminar: Teaching Modern Mathematics in the Elementary School.** 3 hours. (PSC)

(See Special Programs Section.)

Ed 507. **Seminar: Teaching of Foreign Languages. (Elementary and Secondary)** 3 hours. (PSC)

(See Special Programs Section.)

Ed 507. **Seminar: Teaching Science in the Elementary School.** 3 hours. (PSC)

(See Special Programs Section.)

Ed 507. **Seminar: Teaching Slow Learners (Elementary Grades)** 3 hours. (PSC)

(See Special Programs Section.)

Ed 507. **Seminar: Teaching Slow Learners. (Grades 9-12)** 3 hours. (PSC)

(See Special Programs Section.)

Ed 507. **Seminar: The Social Sciences and the Social Studies.** 3 hours. (PSC)

Designed especially for elementary and secondary teachers to explore the relationship between the Social Science disciplines and the Social Studies from K through 12. Emphasis will be placed upon Cultural Anthropology, Economics, Geography, History, Political Science, Psychology, and Sociology. In addition certain sessions will be focused on four areas of interest, two for elementary teachers and two for secondary teachers. The elementary areas will stress Economic Education and Foreign Affairs. The secondary areas will stress broadening the scope of Social Science instruction and improvement of American Problems courses. Persons may attend sessions on a special fee basis without credit. Persons enrolled for credit will submit a paper by August 11 relating some phase of the seminar to their area of teaching.

Ed 507. **Seminar: The Ungraded Primary.** 3 hours. (PSC)

(See Special Programs Section.)

Ed 507. **Seminar: Workshop in Instructional Media and Technology.** 3 hours. (PSC)

(See Special Programs Section.)

Ed 509. **Practicum: Clinical Supervision.** 3 hours. (PSC)

(See Special Programs Section.)

Ed 512. **Research Procedures in Education.** 3 hours. (PSC)

The nature and procedures of research in education; methods, techniques, and tools for research; meaning and application of scientific method; ways of defining and formulating problems; techniques for solving research problems; necessary statistical tools; collection and interpretation of data; special techniques in the preparation of thesis, field study, research paper, and dissertation.

Ed 523. School Activities. 3 hours. (PSC)

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

Ed 542. Social Foundations of Education. 3 hours. (PSC)

Study of emergent and recurring problems of American society as they affect the nature and development of American education. Selected topics are dealt with intensively.

Ed 543. History of American Education. 3 hours. (PSC)**Ed 547. Advanced Methods—Elementary.** 3 hours. (PSC)

Concentrated study of recent trends and recurring problems in selecting, organizing, evaluating, and presenting concepts, information, and materials of instruction in a subject taught in the elementary school. *Language Arts, Social Science, Reading, Science, Mathematics, Health, and Physical Education* are offered during the 1965 Summer Session.

Ed 548. Advanced Methods—Secondary. 3 hours. (PSC)

Concentrated study of recent trends and recurring problems in selecting, organizing, evaluating and presenting concepts, information, and materials of instruction in a subject taught in the secondary school. *Social Science, English, Science, and Mathematics* are offered during the 1965 Summer Session.

Ed 561. Advanced Educational Psychology. 3 hours. (PSC)**Ed 568. The Curriculum of the Public School.** 3 hours. (PSC)

Overview of the public school curriculum with emphasis on the various subject fields; organization of the school for curriculum development; education objectives; the course of study; evaluation of the public school curriculum.

Ed 572. Public School Administration and Organization. 3 hours. (PSC)

Interpersonal relationships in administration; school boards; the superintendency; problems of staff personnel; student personnel problems at the local district level; problems and issues relating to the development of effective school-community relationships. The schools in relation to state and federal agencies; the intermediate unit; local school districts; extralegal agencies affecting education.

Ed 574. School Supervision. 3 hours. (PSC)

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.

Portland Continuation Center Program

Ed 10. Reading Improvement. (Non-credit). (DCE)

A non-credit course for adults who are interested in improving their reading abilities. A practical approach will be combined with some modern devices to improve reading skills, increase reading rate and stabilize confidence in reading processes.

Ed 24. i/t/a/ Workshop. (non-credit) (DCE)

(See Special Programs Section.)

Ed 409. Practicum: Remedial Clinic—Diagnosis. (G) 3 hours. (UO)

Supervised clinical experience in the diagnosis of learning difficulties of school pupils. Prerequisite: Ed 429 or consent of instructor; concurrent registration in Ed 465 required.

Ed 409. Practicum: Remedial Clinic—Remediation. (G) 3 hours. (UO)

Supervised clinical experience in the remediation of learning difficulties of school pupils. Prerequisite: Ed 429, Ed 465, or consent of instructor; concurrent registration in Ed 468 required.

Ed 424. Measurement in Education. (GRAD) 3 hours. (PSC)

Use and interpretation of standardized tests; test planning; item writing; essay testing; administration and scoring; analysis of scores; simple statistics of test interpretation. Students preparing to teach should complete student teaching before enrolling in this course. A special section (b) will be organized to deal with tests and measurements in physical education. Prerequisite: 9 hours of psychology.

Ed 428. Psychology of Reading Instruction. (G) 3 hours. (UO)

Nature of the reading process; factors of learning and development related to reading achievement; psychological foundations of methods and materials of reading instruction; nature and treatment of reading disability.

Ed 429. Principles of Remedial Education. (G) 3 hours. (UO)

Survey of remedial education; factors associated with underachievement; general principles of diagnosis and remediation; diagnostic instruments and remedial resources. A first course in remedial education, with application to both elementary and secondary education.

Ed 439. The Gifted Child. (G) 3 hours. (UO)

The psychology, education, and guidance of the mentally superior and the extraordinarily gifted child.

Ed 440. History of Education. (GRAD) 3 hours. (PSC)

A general review of the growth and development of education in relation to the civilization of the times; emphasis is placed upon the development of educational theories at various points in history.

Ed 460. Psychology of Childhood. (G) 3 hours. (OSU)

Behavior during the prenatal period, infancy, and childhood; muscular activities, perception, emotional adjustment, intelligence, language, and social behavior. Prerequisite: senior standing.

Ed 461. Psychology of Adolescence. (G) 3 hours. (OSU)

Behavior changes during preadolescence and adolescence as related to physiological development and social and cultural factors. Emphasis on personal and social adjustment. Prerequisite: senior standing.

Ed 462. Psychology of Exceptional Children. (GRAD) 3 hours. (PSC)

Physical and psychological characteristics of exceptional children and necessary educational adaptations.

Ed 463. The Maladjusted Child. (G) 3 hours. (UO)

The discovery and treatment of the emotionally and socially maladjusted child; the home, school, and community in relation to the child's mental health. Opportunities for the observation of family counseling techniques.

Ed 464. The Mentally Retarded Child. 3 hours. (PSC)

Physical, social and psychological factors contributing to the educational problems of the mentally handicapped children; consideration of necessary educational adaptations.

Ed 465. Diagnostic Techniques in the Basic Skills. (G) 3 hours. (UO)

Analysis of difficulty in the skills of reading, and related skills; selection, administration, and interpretation of group and individual diagnostic achievement tests; diagnostic procedures; development of the diagnostic report. Concurrent enrollment in Practicum: Remedial Clinic—Diagnosis (Ed 409) required.

- Ed 468. **Remedial Techniques in the Basic Skills.** (G) 3 hours. (UO)
Organization and implementation of the remedial program; specific procedures in the remediation of difficulty in the skills of reading, and related skills. Concurrent enrollment in Practicum: Remedial Clinic—Remediation (Ed 409) required.
- Ed 468. **Diagnostic and Remedial Techniques in Reading.** (G) 3 hours. (OSU)
Reading process, reading readiness, reading skills; causes of retardation; diagnosing difficulties and evaluating progress; and procedures and materials for the development of reading abilities. Prerequisite: Ed 310, 312, 350.
- Ed 469. **Reading in High School and College.** (G) 3 hours. (UO)
Basic principles of reading instruction; nature and scope of the total reading program; methods, materials, and organization of the developmental and corrective reading programs in high school and college.
- Ed 484. **The Junior High School.** (GRAD) 3 hours. (PSC)
Development of the junior high school, its purpose and objectives. Characteristics and needs of the early adolescent; the curriculum, instructional techniques, and guidance programs designed to fill these needs. Present practices in administration, organization, and practice in representative junior high schools may be examined. Prerequisites: Senior standing or consent of instructor.
- Ed 485. **Principles and Practices of Guidance Services.** (G) 3 hours. (OSU)
Beginning course in guidance. Overview of guidance and personnel work; vocational, educational, health, social, personality, recreational, and individual development; participation of teachers, counselors, administrators, parents, and community organizations in guidance program. For teachers and administrators. Prerequisite: senior standing.
- Ed 486. **Occupational and Educational Information.** (G) 3 hours. (OSU)
Materials available; present trends; value and usefulness for high school and college students. Prerequisite: senior standing.
- Ed 487. **Counseling Techniques.** (G) 3 hours. (OSU)
Mental, achievement, trade, and other tests; administration of such tests; classification, educational and vocational counseling. Prerequisite: Ed 485.
- Ed 507. **Seminar: Comparative Analysis of Adolescent Behavior in America and in Europe.** 3 hours. (OSU)
(See Special Programs Section.)
- Ed 507. **Seminar: Understanding Research for the Classroom Teacher.** 3 hours. (OSU)
Designed to assist Classroom teachers in the evaluation and appreciation of significant educational research. Particular emphasis will be devoted to recent trends in educational measurement and to study of selected research reports related to individual teachers' subject areas.
- Ed 508. **Workshop: Aerospace.** 6 hours. (OSU)
(See Special Programs Section.)
- Ed 508. **Workshop: Comparative Analysis of Adolescent Behavior in America and in Europe.** 3 hours. (OSU)
(See Special Programs Section.)
- Ed 508. **Workshop: Foreign Language Laboratory for Teachers.** 3 hours. (OSU)
(See Special Programs Section.)
- Ed 508. **Workshop: Supervised ita Teaching.** 3 hours. (OSU)
(See Special Programs Section.)

Ed 512. Research Procedures in Education. 3 hours. (PSC)

The nature and procedures of research in education; methods, techniques, and tools for research; meaning and application of scientific method; ways defining and formulating problems; techniques for solving research problems; necessary statistical tools; collection and interpretation of data; special techniques in the preparation of thesis, field study, research paper, and dissertation.

Ed 522. Secondary-School Curriculum. 3 hours. (UO)

Overview of the secondary-school curriculum, with emphasis on the various subject fields; organization of the school for curriculum development; educational objectives; the course of study; evaluation of the secondary-school curriculum.

Ed 523. School Activities. 3 hours. (PSC)

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

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

The secondary-school principalship; principles of administration, staff relationships, public relations, and professional growth; business administration; administration of guidance services, curriculum, and school activities; evaluation of the secondary school.

Ed 542. Social Foundations of Education. 3 hours. (PSC)

Study of emergent and recurring problems of American society as they affect the nature and development of American education. Selected topics are dealt with intensively.

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

Intellectual developments with special reference to education. Prerequisite: graduate standing in education.

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

Fundamental problems with some attempt at their solution; meaning of philosophy; value for teacher and administrator. Prerequisite: graduate standing in education.

Ed 547. Advanced Methods—Elementary. 3 hours. (PSC)

Concentrated study of recent trends and recurring problems in selecting, organizing, evaluating, and presenting concepts, information, and materials of instruction in a subject taught in the elementary school. Language Arts, Social Science, Reading, Science, Mathematics, Health, and Physical Education are offered during the 1965 Summer Session.

Ed 548. Advanced Methods—Secondary. 3 hours. (PSC)

Concentrated study of recent trends and recurring problems in selecting, organizing, evaluating and presenting concepts, information, and materials of instruction in a subject taught in the secondary school. Social Science, English, Science, and Mathematics are offered during the 1965 Summer Session.

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

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.

Ed 554. Elementary-School Supervision and Administration. 4 hours. (UO)

For mature students of elementary education who are preparing for administrative or supervisory positions. Characteristics of good elementary schools, leadership

- responsibilities and processes, school organization patterns, pupil personnel policies, school-community relationships.
- CC 558. American Higher Education.** 3 hours. (OSU)
The American college and university; the old liberal arts college; influence of German university; rise of American university; structure and curriculum; international higher education.
- Ed 559. Evaluation of Secondary-School Programs.** 3 hours. (UO)
Appraisal of secondary schools on the basis of evaluative criteria, with special attention to the work of the National Study of Secondary School Evaluation.
- Ed 560. Secondary-School Problems.** 3 hours. (UO)
Current problems in the field of secondary education.
- Ed 562. Issues in Extreme Learning Difficulty.** 3 hours. (UO)
Theory and research concerning extreme learning problems in the basic skills; analysis of differential learning capacity; reading-listening relationships; sensory-motor modes of remediation; social-emotional correlates of skills disability; therapeutic elements of remediation.
- Ed 566. Curriculum Construction.** 4 hours. (UO)
Survey and appraisal of curricular patterns; state and city programs; courses of study in major subject areas; techniques of course-of-study planning.
- Ed 572. Public School Administration and Organization.** 3 hours. (PSC)
Interpersonal relationships in administration; school boards; the superintendency; problems of staff personnel; student personnel problems at the local district level; problems and issues relating to the development of effective school-community relationships. The schools in relation to state and federal agencies; the intermediate unit; local school districts; extralegal agencies affecting education.
- Ed 574. School Supervision.** 3 hours. (PSC)
The role of the supervisor in keeping education geared to the changing demands of society; theories of leadership; group processes and individual conference techniques; action research and related approaches to curriculum change; analysis of concrete supervisory problems.
- Ed 575. School Finance.** 3 hours. (UO)
The problems of school finance and business management; sources of school income; relationship to the state financial structure; expenditure analysis; budgeting and accounting. Includes the construction of a school budget. Prerequisite: work in administration and organization; or consent of instructor.
- Ed 576. School Buildings.** 3 hours. (UO)
Study of the problems involved in planning, financing, and construction of school buildings; care and maintenance of buildings; problems of equipment. Includes analysis of the problems of a specific district. Prerequisite: work in administration and organization; or consent of instructor.
- Ed 577. Counselor Training: Group Procedures.** 3 hours. (OSU)
Principles underlying behavior and methods for modifying individual's attitudes and actions by group procedures; group dynamics; leader's role in group; attitudinal change and its results; group and play therapy; individual and group counseling methods. Prerequisite: Ed 485, 487.
- Ed 588. Supervised Counseling Techniques.** 3 hours. (OSU)
Provides actual counseling experience in counseling laboratory. Interviewing; administering, scoring, and interpreting psychological tests; writing case studies. Consent of instructor required. Prerequisite: Ed 485, 487; Psy 478, 479, 480.

Ed 589. **Organization and Administration of Guidance Services.** 3 hours. (OSU)

Criteria for evaluating present personnel services, setting up guidance committees, selection of personnel, responsibilities and duties of staff, development of program of services, and in-service training program. Prerequisite: Ed 485, 487.

Ed 592. **Administration of Colleges and Universities.** 3 hours. (UO)

The administration of liberal arts colleges and of complex institutions, such as universities; business affairs; administration of schools and departments.

English

Portland State College Program

Eng 104, 105, 106. **Appreciation of Literature.** 3 hours each term. (PSC)

The aim is to stimulate the appreciation and criticism of literature through a study of outstanding works in prose and poetry, selected from all periods including the twentieth century.

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

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

Eng 201, 202, 203. **Shakespeare.** 3 hours each term. (PSC)

Study of the important plays.

Eng 253, 254, 255. **Survey of American Literature.** 3 hours each term. (PSC)

American literature from its beginning to the present day.

Eng 311. **Tragedy.** 3 hours. (PSC)

A study of the nature of tragedy in world literature.

Eng 314. **Epic.** 3 hours. (PSC)

Reading in epic literature in the Western civilization tradition and world literature, beginning with the Iliad and Odyssey.

Eng 320. **English Novel.** (1st term) 3 hours. (PSC)

From Richardson and Fielding to the present.

Eng 364. **American Fiction.** (1st term) 3 hours. (PSC)

American narrative, short story, and novel writing, with emphasis upon the major novelists of the nineteenth century.

Eng 372. **The Novel.** (2nd term) 3 hours. (PSC)

A general study of the novel as a literary type with particular attention given to the continental masters.

Eng 385, 386. **Contemporary Literature.** (2nd and 3rd terms) 3 hours each term. (PSC)

Modern British, American, and continental literature.

Eng 415. **Literary Criticism.** (GRAD) (2nd term) 3 hours. (PSC)

A study of the history, principles and practice of literary criticism. Prerequisite: 18 hours in literature or consent of instructor.

Eng 427. **Medieval Literature.** (GRAD) (2nd term) 3 hours. (PSC)

Middle English literature (in translation) in its European context.

Eng 447. **Major Forces in Literature.** (GRAD) 4 hours. (PSC)

A study of the dominant literary forms and theories that characterize the age;

Medievalism; Renaissance spirit; the neo-classical ideal; romanticism; Victorianism. Prerequisite: 15 credit hours in literature or consent of the instructor.

Eng 448. **Major Figures in Literature.** (GRAD) 4 hours. (PSC)

Concentrated study of the canon of a major writer including analysis of at least one of his works. Prerequisite: 15 credit hours in literature or consent of instructor.

Eng 490. **History of the English Language.** (GRAD) 3 hours. (PSC)

Prerequisite: Anth 480 or consent of instructor.

Eng 492. **Structure of the English Language.** 3 hours. (PSC)

Brief introduction to the principles of linguistic study, followed by examination of the phonology, morphology, and syntax of modern English, with major attention on syntax; some treatment of the relationship of spoken to written English and the problems of beginning writers. Designed to meet state certification requirements for secondary teachers of English. Prerequisite: Wr 211 or consent of instructor.

Eng 507. **Seminar: Contemporary Criticism.** 3 hours. (PSC)

Portland Continuation Center Program

Eng 475. **Modern American Grammar and Usage.** (g) 3 hours. (OCE)

A study of grammar and usage with emphasis on new linguistic theories.

Eng 488. **Literature for Teachers.** (g) 3 hours. (UO)

For students interested in teaching high-school English. Training in comprehension and analysis of fiction, poetry, and drama from English and American literature. Recommended for prospective high-school teachers.

Eng 489. **Literature for Adolescents.** (g) 3 hours. (OCE)

A study of the literature used in junior and senior high schools.

Eng 508. **Workshop: Creative Writing in the Elementary School.** 3 hours (UO)

(See Special Programs Section.)

Foods and Nutrition

Portland Continuation Center Program

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

Newer scientific investigations; optimal diet for health; present day problems.

Foreign Languages

Portland State College Program

French

RL 313. **Survey of French Literature.** (3rd term) 3 hours. (PSC)

French literature from the Middle Ages to the present; readings from representative authors. Prerequisite: two years of college French or equivalent.

RL 314, 315, 316. **Intermediate French Composition and Conversation.** 3 hours each term. (PSC)

Exercises in pronunciation, comprehension, and composition. Ample opportunity for conversation. Prerequisite: two years of college French or equivalent.

RL 331. French Pronunciation and Phonetics. 3 hours. (PSC)

A thorough study of the fundamentals of French pronunciation with personal attention to each student's difficulties. Prerequisite: two years of college French or equivalent.

RL 497F. French Applied Linguistics. 3 hours. (PSC)

A practical application of linguistics to modern French. Emphasis on contrastive analysis of the structures of German, French, Spanish, and English. Prerequisite: previous knowledge of the basic concepts of linguistics. Consent of instructor.

German

GL 334, 335, 336. Intermediate German Conversation and Composition. 3 hours each term. (PSC)

Extensive practice in speaking and writing German. Prerequisite: two years of college German or equivalent.

GL 494, 495, 496. Germanic Linguistics. 3 hours each term. (PSC)

Introduction to the basic concepts of linguistics and their application to the Germanic languages. Emphasis on practical analysis of the sound system and the grammatical system. Brief survey of the historical development, followed by a detailed analysis of the phonetics, phonemics, morphology, and syntax of modern Germanic languages.

GL 497. German Applied Linguistics. 3 hours. (PSC)

A practical application of linguistics to modern German. Emphasis on contrastive analysis of the structures of German, French, Spanish, and English. Prerequisite: previous knowledge of the basic concepts of linguistics. Consent of instructor.

Spanish

RL 347, 348, 349. Intermediate Spanish Composition and Conversation. 3 hours each term. (PSC)

Fundamentals of pronunciation. Extensive oral and written practice. Conducted in Spanish. Prerequisite: Two years of college Spanish or equivalent.

RL 497S. Spanish Applied Linguistics. 3 hours. (PSC)

A practical application of linguistics to modern Spanish. Emphasis on contrastive analysis of the structures of German, French, Spanish and English. Prerequisite: previous knowledge of the basic concepts of linguistics. Consent of instructor.

General Science

Portland State College Program

GS 407. Seminar: Modern Concepts of Meteorology. 3 hours. (PSC)**GS 407. Seminar: Modern Topics in Astronomy. 3 hours. (PSC)**

Descriptive treatment of modern concepts of the solar system, star types and groupings, astronomical instruments and coordinate systems.

GS 407. Seminar: Ornithology. 3 hours. (PSC)

General Studies

Portland State College Program

GSt 403. Life of the Past. 3 hours. (PSC)

Origin and development of plants, animals, and man on earth, as interpreted from the study of fossils and the sedimentary rocks in which they occur. (No credit after taking G 203). Two lectures; one 2-hour laboratory period.

GSt 411. Meaning of Evolution. 3 hours. (PSC)

A discussion of the mechanics of evolution with emphasis on social and ethical considerations.

Geography

Portland State College Program

Geog 105, 106, 107. Introductory Geography. 3 hours each term. (PSC)

A general introduction to the field of geography, in sequence as follows: Geog 105, physical elements; Geog 106, regional geography of Africa, Asia and Latin America; Geog 107, regional geography of the USSR, Europe and North America. Geog 105 is prerequisite to Geog 106 and Geog 107.

Geog 305. Industrial Geography. 3 hours. (PSC)

Covers the industrial processing of products vital to current civilization; deals with the nature and determinants of location of manufacturing industries, measurement of manufacturing distribution, and associations of various types of industrial activity; further emphasis is on major manufacturing industries of the world with regard to their nature, distribution, and areal relationships with other phenomena.

Geog 313. Geography of the Pacific Northwest. 3 hours. (PSC)

Analysis of human and economic geography of the Pacific Northwest with special attention to Oregon. Prerequisites: Geog 105 or Geog 208, 209, 210.

Geog 329. Geography of North America. 3 hours. (PSC)

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. Prerequisite: Geog 105 or Geog 208, 209, 210.

Geog 407. Seminar: Conservation of Natural Resources. 2-3 hours. (PSC)

(See Special Programs Section.)

Geog 407. Seminar: Middle East. 3 hours. (PSC)

Geog 407. Seminar: Water Utilization and Conservation. 2-3 hours. (PSC)

(See Special Programs Section.)

Geog 412. Political Geography. (GRAD) 3 hours. (PSC)

An analysis of the geographic foundation of national states; their location, size, boundaries, communications, human and natural resources, and space relations. Prerequisite: 9 hours of geography or consent of instructor.

Geog 414. Geographic Background of American History. (GRAD) 3 hours. (PSC)

The influence of geographic factors on colonization, settlement patterns and westward movement in America. Prerequisite: 9 hours of history or 9 hours of geography.

Geog 426. Geography of Europe. (GRAD) 3 hours. (PSC)

The geographic backgrounds of European civilization; present day regional and political adjustments to environmental conditions; geographical aspects of European colonial expansion; analysis of the geographical individualities of the major countries, and the relations between human life and natural environment. Prerequisite: Geog 105 or Geog 208, 209, 210.

Geog 427. Geography of the Soviet Union (GRAD). 3 hours. (PSC)

Geography of the Soviet Union; its resources, peoples, and world position. Prerequisite: Geog 105 or Geog 208, 209, 210.

Geog 432. Geography of Africa (GRAD). 3 hours. (PSC)

The course examines regional associations of natural elements in Africa, the material features of African cultures, and investigates geographic problems of economic and political development. Special emphasis is given to occupation south of the Sahara. Prerequisite: Geog 105 or Geog 208, 209, 210.

Geog 507. Seminar: Conservation of Natural Resources. 2-3 hours. (PSC)

(See Special Programs Section.)

Geog 507. Seminar: Geography of the Middle East. 3 hours. (PSC)**Geog 507. Seminar: Water Utilization and Conservation.** 2-3 hours. (PSC)

(See Special Programs Section.)

Portland Continuation Center Program

Geog 427. Geography of the Soviet Union. (G) 3 hours. (UO)

Geography of the Soviet Union; its resources, peoples, and world position. Prerequisite: 6 hours in lower-division geography courses or consent of instructor.

Geog 432. Geography of Africa. (G) 3 hours. (UO)

Physical, economic, and political geography of the African continent, with special on the area south of the Sahara. Prerequisite: 6 hours in lower-division geography courses or consent of instructor.

Geog 433. Political Geography. (G) 3 hours. (UO)

Impact of political institutions upon the landscape; resources and political decisions; relation of formal and informal groups to political areas.

Geog 452. Geography of Southern Asia. (G) 3 hours. (UO)

Intensive study of the physical and cultural processes that have shaped the landscapes of Southern Asia. Prerequisite: 6 hours of lower-division geography or consent of instructor.

Geology

Portland State College Program

G 350. Rocks and Minerals. 3 hours. (PSC)

Opportunity to become acquainted with rocks and minerals without prerequisites of more technical courses. Especially useful to students expecting to teach general science or elementary grades. Prerequisite: upper division standing. Credit not allowed if taken with or after G 312, 313, 314. Two lectures; one 2-hour laboratory period.

G 351. Elements of Geology. 3 hours. (PSC)

Principles of geology, using National Parks and Monuments as examples. Designed as an introduction to geology for general science teacher and elementary teacher.

Prerequisite: upper division standing. Credit not allowed if taken with or after G-201, 202. Two lectures; one 2-hour laboratory period.

G 352. Geology of the Oregon Country. 3 hours. (PSC)

Origin and geologic history of landscape features in Oregon and the Pacific Northwest. Prerequisite: upper division standing. Two lectures; one 3-hour laboratory period.

G 353. Geology of the United States (1st term). 3 hours. (PSC)

Features of the physiographic provinces of the United States, with emphasis on their structural and stratigraphic backgrounds. Practice in the explanatory description of geomorphic type-areas and topographic maps. Prerequisite: upper division standing and G 201, 202 or consent of instructor.

Health Education

Portland State College Program

HE 150. Health Education: (Personal Hygiene). 1 hour. (PSC)

Study of personal health problems which confront the college student; the basic scientific principles of healthful living. Meets the health-education requirement.

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

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

HE 367. School Health Services. 3 hours. (PSC)

Purposes and procedures of health services in the public schools; control of common communicable diseases; technique of pupil health appraisal by the teacher. Prerequisite: 9 hours of biology.

Portland Continuation Center Program

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

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

History

Portland State College Program

Hst 101, 102, 103. History of Western Civilization. 3 hours each term. (PSC)

Origins and development of Western civilization from ancient times to the present.

Hst 201, 202, 203. History of the United States. 3 hours each term. (PSC)

From colonial times to the present day.

Hst 341. Europe Since 1789. (1st term). 3 hours. (PSC)

Political, social, economic, and cultural trends from the French Revolution to the present. First term: 1789 to 1890.

Hst 393. Far East in Modern Times (3rd term). 3 hours. (PSC)

Examination of the political, social, and religious institutions of Confucian China. Comparison and contrast of the impact of the West upon China and Japan. Revolution and Communism in China. Role of the United States in Eastern Asia in the nineteenth and twentieth centuries. Prerequisite: Hst 101, 102, 103, or consent of instructor.

- Hst 401. **Research.** Hours to be arranged. (PSC)
Consent of instructor.
- Hst 405. **Reading and Conference.** Hours to be arranged. 1-4 hours. (PSC)
Directed reading for honor students and history majors.
- Hst 420. **Historiography.** 3 hours. (PSC)
Ideas and basic writings of great historians. Prerequisite: Hst 101, 102, 103, and Hst 201, 202, 203.
- Hst 449. **History of Russia.** (3rd term) 3 hours. (PSC)
Soviet Russia. Prerequisite: Hst 101, 102, 103, or consent of instructor.
- Hst 457. **The U.S. in the 19th Century** (1st term). 3 hours. (PSC)
1815-1850: The Middle Period. Era of Good Feelings; Jacksonian Democracy; reformism; economic change; expansion and Manifest Destiny. Prerequisites: Hst 201, 202, 203 or consent of instructor.
- Hst 462. **History of American Thought and Culture.** (GRAD) (3rd term) 3 hours. (PSC)
Growth of American thought, ideals and institutions; analysis of contributions to American culture by schools, newspapers, magazines, motion pictures, radio, television, art, literature, and philosophy. Prerequisite: Hst 201, 202, 203, or consent of instructor.
- Hst 469. **Twentieth Century England.** 3 hours. (PSC)
The history of the social, political, and economic changes in modern Britain, with particular emphasis upon the British attempts to meet the problems of the contemporary world. Prerequisite: upper division standing or consent of instructor.
- Hst 475. **American Foreign Relations.** (3rd term) 3 hours. (PSC)
The history of the evolution of the American national interest in foreign relations from colonial times to the present with emphasis upon the changing character and role of objectives, policies, commitments, and forces. Prerequisite: Hst 201, 202, 203, or consent of instructor.
- Hst 476. **History of the West.** (1st term). 3 hours. (PSC)
History of the American frontier and the Westward movement, covering various expansions and theories of the frontier. The Atlantic seaboard to the Mississippi. Prerequisites: upper division standing or consent of instructor.
- Hst 478. **History of the Pacific Northwest.** 3 hours. (PSC)
Detailed study of the building of civilization in the Pacific Northwest. Prerequisite: upper division standing or consent of instructor.
- Hst 482. **The United States in the Twentieth Century.** (GRAD) (3rd term) 3 hours. (PSC)
The development of the United States in the twentieth century. The problems and reforms of Theodore Roosevelt; Wilsonian doctrines and legislation; the United States among the nations; isolation versus cooperation; industrial expansion and change; depression; New Deal, its objectives, principles, and practices; post-World War II America. Prerequisite: Hst 201, 202, 203, or consent of instructor.
- Hst 484. **Early History of the American People, 1482-1763.** 3 hours. (PSC)
Colonial background of American history, from the Age of Discovery to the challenge to Empire. Prerequisite: Hst 201, 202, 203, or consent of instructor.
- Hst 487. **American Economic History.** (1st term) 3 hours. (PSC)
Origin and development of economic institutions including industry, agriculture, commerce, transportation, labor and finance. Analyzes the economic progress of the United States. Prerequisites: Ec 201, 202, 203.

- Hst 501. **Research.** 2-4 hours. (PSC)
 Hst 503. **Thesis.** 2-6 hours. (PSC)
 Hst 505. **Reading and Conference.** 2-4 hours. (PSC)
 Hst 507. **Seminar.** 3 hours. (PSC)

Portland Continuation Center Program

- Hst 438. **History of Germany.** (G) (2nd term) 3 hours. (UO)
 The Weimar Republic, the Nazi era, World War II, and the postwar development of East and West Germany.
- Hst 449. **History of Russia.** (G) (3rd term) 3 hours. (UO)
 Revolutinal Russia, 1861 to the present.
- Hst 457. **The Era of American Sectional Conflict.** (G) 3 hours. (UO)
 Forces, events, and persons that contributed to unity and particularism in the United States during the first half of the nineteenth century.
- Hst 462. **History of American Thought and Culture** (G) (3rd term). 3 hours. (UO)
 Main currents of American intellectual and cultural life from colonial times to the present. Prerequisite: Hst 201, 202, 203 or consent of instructor.
- Hst 468. **Victorian England.** (G) 3 hours. (UO)
 Social, political, economic, and intellectual history of England from 1815 to 1900.
- Hst 475. **American Foreign Relations.** (G) (3rd term) 3 hours. (UO)
 The origins, character, and consequences of American foreign policies from the Revolutionary War to the present.
- Hst 476. **History of the West.** (G) (1st term) 3 hours. (UO)
 The early American frontier.
- Hst 478. **History of the Pacific Northwest.** (G) 3 hours. (UO)
 Detailed study of the building of civilization in the Pacific Northwest. Prerequisite: Hst 201, 202 or consent of instructor.
- Hst 482. **The United States in the Twentieth Century.** (G) (3rd term) 3 hours. (UO)
 Since 1939.
- Hst 484. **Early History of the American People.** (G) 1st term) 3 hours. (UO)
 From the discovery of America to Washington's administration.
- Hst 492. **World Problems.** (g) 3 hours. (OCE)
 Consideration given to current and significant political, economic, and social problems of the nations in relation to American culture.

Humanities

Portland State College Program

- Hum 10. **Colloquium on Existentialism.** Non-credit. (PSC)
 Hum 407. **Seminar: Magazine Article Writing.** 3 hours. (PSC)
 Hum 407. **Seminar: 19th Century French Poetry.** 3 hours. (PSC)
 Hum 407. **Seminar: The Modernista Movement in Spanish American Literature.** 3 hours. (PSC)

Hum 501. **Special Studies.** 1-4 hours. (PSC)

Hum 505. **Reading and Conference.** 1-4 hours. (PSC)

Hum 507. **Seminar: Existentialism and the Irrational in Modern European Literature.** 3 hours. (PSC)

Hum 507. **Seminar: Nineteenth Century French Poetry.** 3 hours. (PSC)

Hum 507. **Seminar: The Art of the Film.** 4 hours. (PSC)

A scrutiny of the unique characteristics and capabilities of the art of the moving image, with special emphasis on the informed use of non-educational films in education.

Hum 507. **Seminar: The Modernista Movement in Spanish American Literature.** 3 hours. (PSC)

Portland Continuation Center Program

Hum 502. **Workshop: Structural Grammar for the Classroom Teacher, Grades 7-12.** 3 hours. (OCE)

Journalism

Portland State College Program

J 455. **Supervision of School Publications.** 3 hours. (PSC)

The teacher's role in guiding student publications in secondary schools. Prerequisite: Wr 111, 112, 113 and junior standing.

Portland Continuation Center Program

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

Basic techniques and methods in publicity programs for business, professional, and social organizations and interest groups; relationship of publicity to the broader concepts of public relations.

Library Science

Portland State College Program

Lib 481. **Bibliography and Reference.** 3 hours. (PSC)

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

Lib 483. **Principles of Book Selection.** (G) 3 hours. (UO)

Lib 484. **School Library Administration.** 3 hours. (PSC)

An introduction to school librarianship and to the objectives of the school library in the instructional program. Consideration of problems relating to budget and finance; housing and equipment; personnel and staff; other administrative areas. Emphasis on national and state standards for the instructional materials center.

Lib 486. **Introduction to Cataloging and Classification.** 3 hours. (PSC)

Instruction and practice in simplified procedures for the classification and cataloging of books, films, filmstrips, phonorecords, and maps. Procedure for ordering and using Library of Congress and Wilson cards.

Lib 488. **Books and Related Materials for Young People.** 3 hours. (PSC)

A survey of books and non-book materials suitable for students of junior and senior high school age. Emphasis on selection and evaluation of books, adolescent reading interests, and reading guidance for curricular and personal needs.

Lib 490. **Children's Literature and Library.** 3 hours. (PSC)

Portland Continuation Center Program

Lib 485. **Advanced Bibliography and Reference.** (G) 3 hours. (UO)

Reference books in the various subject fields; theory and history of bibliography; interlibrary loan. Prerequisite: Lib 481 or consent of instructor.

Mathematics

Portland State College Program

Mth 10. **Elements of Algebra.** Non-credit. (PSC)

For students entering with less than one year of algebra. Open to others on recommendation of the department.

Mth 100. **Intermediate Algebra.** 4 hours. (PSC)

Prerequisite: one year of high school algebra, or Mth 10. No credit is allowed for this course if it is completed after Mth 101 or any other more advanced course in mathematics.

Mth 101. **College Algebra.** 4 hours. (PSC)

Prerequisite: one and one-half years of high-school algebra, or Mth 100.

Mth 102. **Trigonometry.** 4 hours. (PSC)

Prerequisite: Mth 101.

Mth 103. **Analytic Geometry.** 4 hours. (PSC)

Prerequisite: Mth 102.

Mth 104, 105. **Introductory College Mathematics.** (1st and 2nd term) 4 hours each term. (PSC)

College algebra and plane trigonometry. Finite mathematics. Presentation of data and elements of probability and statistics. Prerequisite: consent of department.

Mth 110. **Mathematics of Finance.** 4 hours. (PSC)

Simple and compound interest and discount, annuities, periodic-payment plans, bonds, depreciation, and other topics related to business. Prerequisite: Mth 101.

Mth 111, 112. **Mathematics for Elementary Teachers.** 3 hours each term. (PSC)

Treatment of historical aspects of mathematics; sets; structure of the integers, rational numbers, and real numbers as infinite decimals; informal geometry of points, lines and planes.

Mth 200, 203. **Calculus with Analytic Geometry** (1st and 4th terms). 4 hours each term. (PSC)

A unified treatment of analytic geometry and calculus; equivalent of Mth 103 and 207, 208, 209.

Mth 207, 209. **Calculus.** (1st and 3rd term) 4 hours. (PSC)

Standard sequence for students of science and engineering. Prerequisite: Mth 103.

Mth 311, 312. **Advanced Calculus** (1st and 2nd terms). 3 hours each term. (PSC)

A rigorous treatment of topics introduced in elementary calculus with additional topics such as line and surface integrals, and the theory of implicit functions. Prerequisite: Calculus.

Mth 321, 322. Differential Equations. 3 hours each term. (PSC)

Ordinary and partial differential equations. Prerequisite: Calculus.

Mth 324. Vector Analysis. 3 hours. (PSC)

Modern vector methods with applications for students of mathematics, physics, and engineering. Prerequisite: Calculus.

Mth 351. Computer Coding. 3 hours. (PSC)

Coding instruction with practical laboratory work on one of the current electronic digital computers. Prerequisite: Mth 100 or equivalent.

Mth 342, 343. Basic Concepts of Algebra (2nd and 3rd terms). 3 hours each term. (PSC)

Introduction to abstract algebraic systems. Peano axioms, development of integers, rational numbers. Matrices and determinants with applications. Topics from theory of equations. Prerequisite: Calculus.

Mth 407. Seminar: Analysis. 3 hours. (PSC)

Mth 407. Seminar: Applied Mathematics. 3 hours. (PSC)

Consent of instructor.

Mth 444. Logical Foundations of Mathematics (1st term). 3 hours. (PSC)

Introduction to Boolean algebra and truth-functions, quantification, sets, relations, and functions; development and study of foundational systems. Prerequisites: Calculus or consent of instructor.

Mth 464, 465. Elements of Statistical Methods (1st and 2nd terms). 3 hours each term. (PSC)

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. Not approved for major credit.

Mth 507. Seminar: Analysis. 3 hours. (PSC)

Mth 507. Seminar: Applied Mathematics. 3 hours. (PSC)

Music

Portland State College Program

Mus 190. Applied Music. 1-2 hours. (PSC)

Freshman year. Individual instruction in organ, piano, violin, cello, harp, voice, orchestral and band instruments. Attendance at class sessions and recitals required. Prerequisite: qualifying examination.

Mus 195. Band. 1 hour. (PSC)

Six hours maximum credit.

Mus 197. Chorus. 1 hour. (PSC)

Six hours maximum credit.

Mus 290. Applied Music. 1-2 hours. (PSC)

Sophomore year. Continuation of Mus 190, which is prerequisite.

Mus 301, 302, 303. Survey of Music and Music Literature. 3 hours each term. (PSC)

A survey of music literature presented chronologically with special emphasis on the relationships, in each significant period, between music and the other arts.

- Mus 324. Choral Conducting.** 2 hours. (PSC)
The principles of conducting and training choral organizations.
- Mus 381, 382. Music Fundamentals.** 3 hours each term. (PSC)
Basic musicianship for the elementary teacher, developed through experiences relevant to Music 382: Mus 381 or consent of instructor.
- Mus 383. Music Fundamentals (Teacher Education).** 3 hours. (PSC)
Experience in teaching the various music activities found in the elementary classroom. Required of majors in elementary education. Prerequisite: Admission to a program of teacher education and Ed 310, Ed 312; also Mus 381 and 382, or consent of instructor.
- Mus 390. Applied Music.** 1-2 hours. (PSC)
Junior year. Individual instruction in organ, piano, violin, cello, harp, voice, orchestral and band instruments. One or two lessons a week. Attendance at class sessions and recitals required. Prerequisite: Mus 290 or equivalent and qualifying examination for upper-division standing.
- Mus 395. Band.** 1 hour. (PSC)
Six hours maximum credit.
- Mus 397. Chorus.** 1 hour. (PSC)
Six hours maximum credit.
- Mus 414, 415, 416. Composition I.** 2 hours each term. (PSC)
Composition in the smaller forms for piano, violin, and other instruments. Prerequisite: Mus 311, 312, 313 and Mus 314, 315, 316.
- Mus 441, 442, 443. Advanced Conducting.** 3 hours each term. (PSC)
A study of the technical and interpretative problems encountered in the rehearsal and conducting of standard symphonic literature. Experience in conducting symphonic literature. Prerequisite: Mus 314 and Mus 320.
- Mus 490. Applied Music.** 1-2 hours. (PSC)
Senior year. Continuation of Mus 390, which is prerequisite.
- Mus 501. Special Studies.** 3 hours. (PSC)
- Mus 507. Seminar: French Horn.** 3 hours. (PSC)
(See Special Programs Section.)
- Mus 507. Seminar: Oboe.** 3 hours. (PSC)
(See Special Programs Section.)
- Mus 507. Seminar: 20th Century Music.** 3 hours. (PSC)
- Mus 507. Seminar: Music and Civilization.** 3 hours. (PSC)
- Mus 517, 518, 519. Advanced Harmony.** 2 hours each term. (PSC)
- Mus 590. Applied Music.** 2 hours. (PSC)

Music Education

Portland Continuation Center Program

- MuE 533. Music in the Elementary School.** 3 hours. (UO)
Theory, supervision, curriculum, materials, and procedures of vocal-music teaching in the elementary school.

Philosophy

Portland State College Program

Phl 201. **Problems of Philosophy.** 3 hours. (PSC)

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

Phl 202. **Elementary Ethics.** 3 hours. (PSC)

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

Phl 203. **Elementary Logic.** 3 hours. (PSC)

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

Phl 204. **Elementary Aesthetics.** 3 hours. (PSC)

An introductory study of theories of beauty and art, and interpretations of aesthetic experience.

Phl 301. **History of Philosophy** (1st term). 3 hours. (PSC)

A study of Western philosophy from the pre-Socratic Greek philosophers to Hegel. Prerequisite: No previous work in philosophy required.

Phl 451. **Philosophical Classics.** (2nd term) 3 hours. (PSC)

Intensive study of selected philosophical classics of metaphysics and epistemology.

Portland Continuation Center Program

Phl 460. **Philosophy of Religion.** (g) 3 hours. (OSU)

Religious concepts of reality and human nature; ideas of God; problem of faith and reason; religious language and symbolism; religious concepts of man and history.

Physical Education

Portland State College Program

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

A variety of activities taught for physiological and recreational values. Special sections for restricted and corrective work. A total of five terms in different activities required. Maximum: 12 term hours.

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

A variety of activities taught for physiological and recreational values. Special sections for restricted and corrective work. A total of five terms in different activities required. Maximum: 12 term hours.

PE 194. **Professional Activities (Women) (Fundamentals of Body Movements, Field Sports).** 1 hour. (PSC)

For professional students: instruction and practice in specific teaching techniques and basic skills.

PE 294. **Professional Activities (Women) (Social, Folk and Square Dance).** 2 hours. (PSC)

For professional students: instruction and practice in specific teaching techniques and basic skills.

PE 295. **Professional Activities (Men) (Social, Folk and Square Dance).** 2 hours. (PSC)

For professional students: instruction and practice in specific teaching techniques and basic skills.

PE 445. **The School Program.** 3 hours. (PSC)

Construction of physical education and intramural programs, on the basis of accepted principles, criteria, functions, and evaluations; emphasis on integration with the total school program. Prerequisites: PE 341, Ed 408.

Portland Continuation Center Program

PE 480. **Driver Education and Training (G).** 3 hours. (OSU)

(See Special Programs Section.)

PE 515. **History and Theories of Physical Education.** 3 hours. (UO)

The history of physical education from the Greeks to modern times; emphasis on modern development.

PE 516. **Intramural Organization and Management.** 3 hours. (UO)

Nature and purposes of intramural programs; history of their development. Departmental organization. Relationship of the program of physical-education instruction. Administrative problems.

Physics

Portland State College Program

Ph 407. **Seminar: Advanced Physics.** 9-12 hours. (PSC)

Ph 407. **Seminar: Modern Topics for Physics Teachers.** 9 hours. (PSC)

Ph 507. **Seminar: Modern Topics for Physics Teachers.** 9 hours. (PSC)

Portland Continuation Center Program

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

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. Must be preceded by or accompanied by calculus.

Ph 520. **Astronomy.** 3 hours. (OSU)

Political Science

Portland State College Program

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

The American political system in theory and practice. The Constitution and constitutionalism; problems of federalism; political behavior, parties, pressure groups, and elections; Congress and the legislative process; the Presidency and modern bureaucracy; the Supreme Court and judicial policy-making. Major problems of public policy: government, the economy, and the general welfare; national security and foreign policy; guarantees of civil liberties, due process of law, and equal rights. Open to freshmen.

PORTLAND SUMMER TERM 1965

CLASS SCHEDULE

Prerequisites

Summer term students are responsible for assuring themselves that prerequisites have been met. Those lacking specified prerequisites, but who are sufficiently advanced, may, with the instructor's consent, be admitted to a class.

Graduate Credit

All 500 courses are graduate courses. Courses at the 400 level which are followed by a (G) or by the capitals (GRAD) are approved for either graduate major or graduate minor credit. Courses at the 400 level which are followed by a (g) are approved for graduate minor credit only.

Class Scheduling

In schedule of class periods, 8 indicates 8 o'clock, 9 indicates 9 o'clock, etc. Hours shown as 9, 10, & 11 indicate three periods. In some cases hours, courses, and instructors were unknown at the time the schedule was printed. Such instances are shown by *** in the schedule. Program these courses as usual and report to the classes.

Eight-Week Term

(For Special Programs, see the course descriptions)

ANTHROPOLOGY (See also Special Programs)

<i>Inst.</i>	<i>Dept. and No.</i>	<i>Course Title</i>	<i>Cr. Hrs.</i>	<i>Sec. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
(PSC)	Anth 101	General Anthropology (1st term)	3	1	MTWTh 1 pm; 150 SH	M. Newman
(PSC)	Anth 321	Physical Anthropology (2nd term)	3	1	MTWTh 11 am; Bellman Apts	M. Newman
(PSC)	Anth 341	The Individual and Culture	3	1	MTWTh 12 pm; Bellman Apts	Kennedy
(PSC)	Anth 349	Kinship, Family and Social Structure	3	1	MTWTh 9 am; Bellman Apts	Levy
(PSC)	Anth 407	Seminar: Peoples and Cultures of China	3	1	MTWTh 10 am; 254 SH	Kennedy
(PSC)	Anth 407	Seminar: Selection and Adaptation in Man	3	1	MTWTh 12 pm; Bellman Apts	M. Newman
(PSC)	Anth 417	Indians of North America	3	1	MTWTh 10 am; Bellman Apts	Levy

APPLIED SCIENCE

(PSC)	ASc 213	Properties of Materials	3	1	MW 6 & 7 pm; 317 OM	Janssen
(PSC)	ASc 214	Dynamics of Solids	3	1	MW 8 & 9 pm; 319 OM	Fanger

ART (See also Special Programs)

(PSC)	AA 197	Basic Design (3rd term)	3	1	MTWTh 10 & 11 am; 201 SPH	Brownfield
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CLASS SCHEDULE

Inst.	Dept. and No.	Course Title	Cr. Sec.		Time & Place	Instructor
			Hrs.	No.		
(PSC)	AA 203	Survey of Visual Arts (3rd term)	3	1	MTWTh 11 am; 490 SPH	Kimbrell
(PSC)	AA 217	Lettering	1	1	W 1, 2, & 3 pm; 335 SPH	Lehman
(PSC)	AA 217	Lettering	1	2	W 6 to 8:30 pm; 335 SPH	Lehman
(PSC)	AA 256	Weaving	2-3	1	MTWTh 10 & 11 am; 334 SPH	Kowert
(PSC)	AA 290	Painting	2-3	1	MTWTh 3 & 4 pm; 241 SPH	F. Kline
(PSC)	AA 290	Painting	2-3	2	MTWTh 10 & 11 am; 241 SPH	***
(PSC)	AA 290	Painting	2-3	3	MW 6, 7, & 8 pm; 241 SPH	***
(PSC)	AA 290	Painting	2-3	4	TTh 6, 7, & 8 pm; 211 SPH	Cheshire
(PSC)	AA 291	Drawing	2-3	1	MTWTh 8 & 9 am; 243 SPH	Brownfield
(PSC)	AA 292	Water Color	2-3	1	MTWTh 10 & 11 am; 243 SPH	Prasch
(PSC)	AA 298	Sketching	1	1	T 6 to 8:30 pm; 243 SPH	Brownfield
(PSC)	AA 311	Art in the Elementary School (1st term)	3	1	MTWTh 10 & 11 am; 335 SPH	***
(PSC)	AA 311	Art in the Elementary School (1st term)	3	2	MTWTh 1 & 2 pm; 201 SPH	Bergman
(PSC)	AA 312	Art in the Elementary School (2nd term)	3	1	MTWTh 8 & 9 am; 235 SPH	***
(PSC)	AA 312	Art in the Elementary School (2nd term)	3	2	MTWTh 10 & 11 am; 235 SPH	Coloscott
(PSC)	AA 313	Art in the Elementary School (3rd term)	3	1	MTWTh 1 & 2 pm; 235 SPH	Arnold
(PSC)	AA 313	Art in the Elementary School (3rd term)	3	2	MW 6, 7, & 8 pm; 235 SPH	F. Kline
(PSC)	AA 396	Advanced Figure Composition	3	1	MTWTh 10 & 11 am; 249 SPH	Heidel
(PSC)	AA 401	Special Studies	2-4	1	By arrangement; 249 SPH	Heidel
(PSC)	AA 415	Art in the Secondary School (2nd term)	3	1	MTWTh 10 & 11 am; 242 SPS	Bergman
(PSC)	AA 446	History of Oriental Art (1st term)	3	1	MTWTh 1 pm; 490 SPH	Kimbrell
(PSC)	AA 479	Printmaking	3	1	MTWTh 8 & 9 am; 292 SPH	Kimbrell
(PSC)	AA 490	Advanced Painting	2-3	1	MTWTh 1 & 2 pm; 249 SPH	Prasch
(PSC)	AA 494	Advanced Sculpture	2-3	1	MW 6, 7, & 8 pm; 237 SPH	Littman
(PSC)	AA 501	Research: Painting	2-4	1	By arrangement	***
(PSC)	AA 503	Thesis	2-4	1	By arrangement	***
(PSC)	AA 505	Reading and Conference	2-4	1	By arrangement	***

BIOLOGY

(PSC)	Bi 407	Seminar: Biometrics	2	1	By arrangement	Clarkson
(PSC)	Bi 422	Introduction to Genetics	3	1	MTWTh 1 pm, TTh 2 pm; 213 OM	Clarkson
(PSC)	Bi 507	Seminar: Biometrics	2	1	By arrangement	Clarkson

BUSINESS ADMINISTRATION (See also Special Programs)

(PSC)	BA 111	Introduction to Business and Industry	3	1	MTWTh 11 am; 183 SH	Boore
(PSC)	BA 111	Introduction to Business and Industry	3	2	MW 6 & 7 pm; 183 SH	Schoenauer
(PSC)	BA 122	Principles of Management	3	1	MTWTh 10 am; 183 SH	Schoenauer
(PSC)	BA 211	Principles of Accounting (1st term)	3	1	MTWTh 8 am; 147 SH	Hewitt
(PSC)	BA 211	Principles of Accounting (1st term)	3	2	MW 8 & 9 pm; 249 SH	Ellefson
(PSC)	BA 211	Principles of Accounting (1st term)	3	3	TTh 6 & 7 pm; 249 SH	Meshner
(PSC)	BA 212	Principles of Accounting (2nd term)	3	1	MTWTh 9 am; 147 SH	Meshner
(PSC)	BA 212	Principles of Accounting (2nd term)	3	2	TTh 8 & 9 pm; 249 SH	Meshner
(PSC)	BA 213	Principles of Accounting (3rd term)	3	1	MTWTh 10 am; 149 SH	Ellefson
(PSC)	BA 213	Principles of Accounting (3rd term)	3	2	MW 6 & 7 pm; 245 SH	Ellefson
(PSC)	BA 214	Business Communications	3	1	MTWTh 9 am; 183 SH	Wattous
(PSC)	BA 221	Production	3	1	MTWTh 9 am; 103 SH	Boore
(PSC)	BA 222	Finance	3	1	MTWTh 11 am; 147 SH	Dehner
(PSC)	BA 223	Marketing	3	1	MTWTh 8 am; 221 SH	Robb
(PSC)	BA 223	Marketing	3	2	MW 8 & 9 pm; 149 SH	Robb
(PSC)	BA 238	Salesmanship	3	1	MTWTh 10 am; 145 SH	R. E. Dodge
(PSC)	BA 314	Principles of Cost Accounting	3	1	MW 6 & 7 pm; 147 SH	Hewitt
(PSC)	BA 329	Production Management	3	1	TTh 6 & 7 pm; 147 SH	Boore
(PSC)	BA 340	Advertising	3	1	MTWTh 11 am; 249 SH	Schmelzlee
(PSC)	BA 359	Finance Management	3	1	MTWTh 9 pm; 247 SH	Dehner
(PSC)	BA 366	Marketing Management	3	1	TTh 8 & 9 pm; 145 SH	R. E. Dodge
(PSC)	BA 367	Wholesaling Management	3	1	TTh 6 & 7 pm; 245 SH	Schmelzlee
(PSC)	*BA 383, 384, 385	Accounting Theory				
	BA 383	Accounting Theory (June 21 to July 9)	3	1	MTWTh 8, 9, & 10 am; 245 SH	Tassin

* Registration for less than the full sequence will be accepted only over the instructor's signature.

EIGHT WEEK TERM

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Time & Place	Instructor
	BA 384	Accounting Theory (July 12 to July 30)	3	1	MTWTh 8, 9, & 10 am; 245 SH	Tassin
	BA 385	Accounting Theory (August 2 to August 13)	3	1	MTWTh 8, 9, & 10 am; 245 SH	Tassin
(PSC)	BA 407	Seminar: Tax Policies and Decisions	3	1	TTh 6 & 7 pm; 247 SH	Schantz
(PSC)	BA 407	Seminar: Public Relations	3	1	MTWTh 11 am; 145 SH	Robb
(PSC)	BA 411	Business Law (1st term)	3	1	MTWTh 1 pm; 41 SPH	Schantz
(PSC)	BA 412	Business Law (2nd term)	3	1	TTh 8 & 9 pm; 245 SH	Schantz
(PSC)	BA 437	Real Estate Principles	3	1	MW 6 & 7 pm; 145 SH	Watrous
(PSC)	BA 438	Real Estate Practice	3	1	MW 8 & 9 pm; 245 SH	Watrous
(PSC)	BA 451	Personnel Management	3	1	MTWTh 12 pm; 221 SH	Schoennauer
(PSC)	BA 460	Purchasing	3	1	MTWTh 1 pm; 147 SH	Schmelzlee
(PSC)	BA 462	Retail Management	3	1	MTWTh 8 am; 145 SH	R. E. Dodge
(PSC)	BA 487	Advanced Cost Accounting	3	1	MW 8 & 9 pm; 145 SH	Hewitt
(UO)	FBE 517	Legal Environment of Business (p)	3	1	MW 6 & 7 pm; 149 SH	Ziebarth
(UO)	MIT 511	Administration of the Marketing Function (p)	3	1	TTh 6 & 7 pm; 145 SH	Ziebarth
(PSC)	BEd 111	Stenography	3	1	MTWTh 10 am; 325 SH	Backlund
(PSC)	BEd 111	Stenography	3	2	MW 6 & 7 pm; 328 SH	Robertson
(PSC)	BEd 121	Typing (1st term)	2	1	MTWTh 12 pm; 328 SH	Backlund
(PSC)	BEd 121	Typing (1st term)	2	2	TTh 6 & 7 pm; 328 SH	***
(PSC)	BEd 122	Typing (2nd term)	2	1	MTWTh 1 pm; 325 SH	Robertson
(PSC)	BEd 215	Business Machines	3	1	MTWTh 8 am; 324 SH	Underwood
(PSC)	BEd 311	Office Procedures (1st term)	3	1	MTWTh 9 am; 325 SH	Underwood
(PSC)	BEd 507	Seminar: Economic Concepts in Business Education	3	1	MTWTh 11 am; 328 SH	Robertson
(OSU)	BEd 536	Problems and Research Techniques in Business Education	3	1	MTWTh 9 am; 401 SH	Winger
(OSU)	BEd 537	Measurements in Business Education	3	1	MTWTh 10 am; 225 SH	Winger

CHEMISTRY

(PSC)	Ch 106	General Chemistry (3rd term)	4	1	TTh 6:30 to 8 pm; 301 OM	Mickelsen
		Lab A			TTh 8 & 9 pm; 304 OM	Mickelsen
(PSC)	Ch 223	Qualitative Analysis and Electrolytic Solutions	4	1	MW 6 to 7:30 pm; 301 OM	Brown
		Lab A			MW 7:30 to 10 pm; 362 OM	Brown
		Lab B			MW 2:30 to 5 pm; 362 OM	***
(OSU)	*Ch 226, 227	Organic Chemistry				
	Ch 226	Organic Chemistry (June 22 to July 17)	5	1	MTThF 9 & 10 am; 301 OM	Roberti
		Lab A			MTThF 12 to 4 pm; 220 OM	Roberti
		Lab B			MTThF 12 to 4 pm; 308 OM	Levinson
	Ch 227	Organic Chemistry (July 20 to August 14)	5	1	MTThF 9 & 10 am; 301 OM	Ferguson
		Lab A			MTThF 12 to 4 pm; 220 OM	Ferguson
		Lab B			MTThF 12 to 4 pm; 308 OM	Levinson
(PSC)	Ch 234	Quantitative Analysis	5	1	MTTh 6 to 7:15 pm; 307 OM	Barnum
		Lab A			MTTh 7:15 to 10 pm; 307 OM	Barnum
		Lab B			MTTh 2 to 4:45 pm; 307 OM	Boster
(PSC)	Ch 340	Elementary Physical Chemistry	4	1	MTThF 1 pm; 247 SH	Gatz
		Lab A			T 2 & 3 pm; Th 2, 3, & 4 pm; 306 OM	Gatz
(PSC)	Ch 507	Seminar: Physical Chemistry	4	1	MTThF 1 pm; 247 SH	Gatz
		Lab A			T 2 & 3 pm; Th 2, 3, & 4 pm; 306 OM	Gatz

ECONOMICS

(PSC)	Ec 201	Principles of Economics (1st term)	3	1	MTWTh 7 am; 171 SH	Gardner
(PSC)	Ec 201	Principles of Economics (1st term)	3	2	MW 6 & 7 pm; 203 SH	Vaqar
(PSC)	Ec 202	Principles of Economics (2nd term)	3	1	MTWTh 11 am; 171 SH	Vaqar
(PSC)	Ec 203	Principles of Economics (3rd term)	3	1	MTWTh 2 pm; 171 SH	Brinkman
(PSC)	Ec 212	Outlines of Economics	3	1	MTWTh 12 pm; 53 SH	McLean
(PSC)	Ec 212	Outlines of Economics	3	2	MTWTh 10 am; 203 SH	Lovell
(PSC)	Ec 407	Seminar: Economic Development	3	1	MTWTh 2 pm; 247 SH	Vaqar
(PSC)	Ec 411	Monetary and Banking Theory (GRAD) (1st term)	3	1	MTWTh 11 am; 250 SH	Gardner

* Registration for less than the full sequence will be accepted only over the instructor's signature.

CLASS SCHEDULE

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Time & Place	Instructor
(PSC)	Ec 417	Contemporary Economics Problems (GRAD)	3	1	MTWTh 8 am; 247 SH	Gardner
(UO)	Ec 417	Contemporary Economic Problems (g)	3	1	MTWTh 8 am; 247 SH	Gardner
(PSC)	Ec440	International Economics (GRAD) (1st term)	3	1	MTWTh 10 am; 249 SH	Brinkman
(UO)	Ec 440	International Economics (G) (1st term)	3	1	MTWTh 10 am; 249 SH	Brinkman
(UO)	Ec 445	Organized Labor (G)	3	1	MTWTh 9 am; 249 SH	Lovell
(PSC)	Ec 450	Comparative Economic Systems (GRAD)	3	1	MW 6 & 7 pm; 343 SPH	Blumel
(PSC)	Ec487	American Economic History (GRAD) (1st term)	3	1	MTWTh 1 pm; 401 SH	Brinkman
(UO)	Ec 487	American Economic History (G)	3	1	MTWTh 1 pm; 401 SH	Brinkman
(PSC)	Ec 507	Seminar: Economics for Teachers	3	1	MTWTh 10 am; 247 SH	Blumel

EDUCATION (See also Special Programs)

(DCE)	Ed 10	Reading Improvement (noncredit)	(2)	1	MW 6 & 7 pm; 102 OM	Jenkins
(PSC)	Ed 310	School in American Life	3	1	MTWTh 8 am; 112 OM	Melo
(PSC)	Ed 310	School in American Life	3	2	MTWTh 9 am; 111 OM	Cramer
(PSC)	Ed 310	School in American Life	3	3	MW 6 & 7 pm; 111 OM	Melo
(PSC)	Ed 310	School in American Life	3	4	MTWTh 11 am; 112 OM	Sands
(PSC)	Ed 312	Educational Psychology: Learning	3	1	MTWTh 9 pm; 111 OM	Malter
(PSC)	Ed 312	Educational Psychology: Learning	3	2	MTWTh 10 am; 258 SH	Malter
(PSC)	Ed 312	Educational Psychology: Learning	3	3	MTWTh 12 pm; 103 OM	Malter
(PSC)	Ed 312	Educational Psychology: Learning	3	4	MW 6 & 7 pm; 112 OM	Taschow
(PSC)	Ed 314	Principles of Secondary Teaching	3	1	MTWTh 10 am; 218 OM	James
(PSC)	Ed 344	Physical Education in the Grades	3	1	MTWTh 8 am; Gym	Tichy
(PSC)	Ed 344	Physical Education in the Grades	3	2	MTWTh 9 am; Gym	Tichy
(PSC)	Ed 351	School Health Programs	3	1	MTWTh 8 am; 183 SH	Westoott
(PSC)	Ed 351	School Health Programs	3	2	MTWTh 11 am; 149 SH	Tichy
(PSC)	Ed 356	Methods and Materials: Reading in the Elementary School	3	1	MTWTh 8 am; 214 OM	Phelps
(PSC)	Ed 356	Methods and Materials: Reading in the Elementary School	3	2	MTWTh 9 am; 207 OM	Bingham
(PSC)	Ed 358	Methods and Materials: Language Arts and Social Science	3	1	MTWTh 10 am; 207 OM	Sigborn
(PSC)	Ed 358	Methods and Materials: Language Arts and Social Science	3	2	MTWTh 11 am; 207 OM	Mosher
(PSC)	Ed 359	Methods and Materials: Science and Mathematics	3	1	MTWTh 9 am; 208 OM	Marker
(PSC)	Ed 359	Methods and Materials: Science and Mathematics	3	2	MTWTh 10 am; 208 OM	Neidelh
(PSC)	Ed 370	Methods and Materials: Health and Physical Education	3	1	MTWTh 12 pm; 214 OM	Owens
(PSC)	Ed 388	Children's Literature and Library	3	1	MTWTh 9 am; 214 OM	Mosher
(PSC)	Ed 388	Children's Literature and Library	3	2	TTh 6 & 7 pm; 111 OM	LaRiviere
(PSC)	Ed 389	Reading and Telling Children's Stories	3	1	MTWTh 1 pm; 215 OM	Petersen
(PSC)	Ed 390	Enriching Children's Reading	3	1	MTWTh 10 am; 215 OM	Petersen
(PSC)	Ed 401	Special Studies	3	1	By arrangement	***
(PSC)	Ed 405	Reading and Conference	3	1	By arrangement	***
(PSC)	Ed 408	Special Secondary Methods: Business Education	3	1	MTWTh 11 am; 325 SH	Underwood
(PSC)	Ed 408	Special Secondary Methods: Composition	3	2	MTWTh 8 am; 102 OM	Browne
(PSC)	Ed 408	Special Secondary Methods: Literature	3	3	MTWTh 9 am; 145 SH	Browne
(PSC)	Ed 408	Special Secondary Methods: Mathematics	3	4	MTWTh 1 pm; 218 OM	Rogers
(PSC)	Ed 408	Special Secondary Methods: Science	3	5	MTWTh 11 am; 212 OM	D. Porter
(PSC)	Ed 408	Special Secondary Methods: Social Science	3	6	MTWTh 9 am; 218 OM	Ralph Smith
(UO)	Ed 409	Practicum; Remedial Clinic—Diagnosis (G)	3	1	By arrangement	McMenemy
(UO)	Ed 409	Practicum; Remedial Clinic—Diagnosis (G)	3	2	By arrangement	***
(UO)	Ed 409	Practicum; Remedial Clinic—Remediation (G)	3	1	By arrangement	Goforth
(UO)	Ed 409	Practicum; Remedial Clinic—Remediation (G)	3	2	By arrangement	Goforth
(PSC)	Ed 415	Student Teaching: Elementary	6	1	By arrangement	Schuberg

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EIGHT WEEK TERM

Dept. Inst. and No.	Course Title	Cr. Hrs.	Sec. No.	Time & Place	Instructor
(PSC)	Ed 416 Student Teaching: Secondary	6	1	By arrangement	Larson
(PSC)	*Ed 424 Measurement in Education (GRAD)	3	1	MTWTh 8 am; 158 SH	Burgess
(PSC)	*Ed 424 Measurement in Education (GRAD)	3	2	MTWTh 10 am; 101 OM	Burgess
(PSC)	*Ed 424 Measurement in Education (GRAD)	3	3	MTWTh 11 am; 258 SH	Burgess
(UO)	Ed 428 Psychology of Reading Instruction (C)	3	1	MTWTh 9 am; 158 SH	***
(UO)	Ed 429 Principles of Remedial Education (C)	3	1	MTWTh 11 am; 247 SH	***
(PSC)	Ed 435 Audio-Visual Aids (GRAD)	3	1	MTWTh 8 am; 258 SH	Zehr
(PSC)	Ed 435 Audio-Visual Aids (GRAD)	3	2	MTWTh 9 am; 258 SH	Zehr
(UO)	Ed 439 The Gifted Child (G)	3	1	MTWTh 9 am; 347 SH	B. Farrell
(PSC)	*Ed 440 History of Education (GRAD)	3	1	MTWTh 9 am; 283 SH	Fen
(PSC)	Ed 442 Group Dynamics (GRAD) (June 21 to July 15)	3	1	MTWTh 11 & 12 pm; 154 SH	Josephson
(PSC)	Ed 446 Philosophy of Education (GRAD)	3	1	MTWTh 8 am; 249 SH	Fen
(PSC)	Ed 446 Philosophy of Education (GRAD)	3	2	MTWTh 9 am; 215 OM	Sands
(PSC)	Ed 446 Philosophy of Education (GRAD)	3	3	MTWTh 11 am; 110 OM	Fen
(PSC)	Ed 450 Early Childhood Education: Curriculum Patterns (GRAD)	3	1	MTWTh 12 pm; 208 OM	Moerber
(OSU)	Ed 460 Psychology of Childhood (C)	3	1	MTWTh 1 pm; 101 SH	Manning
(OSU)	Ed 460 Psychology of Childhood (C)	3	2	MTWTh 12 pm; 215 OM	Reed
(OSU)	Ed 460 Psychology of Childhood (C)	3	3	MTWTh 2 pm; 215 OM	Manning
(OSU)	Ed 460 Psychology of Childhood (C)	3	4	MTWTh 11 am; 158 SH	Reed
(OSU)	Ed 461 Psychology of Adolescence (C)	3	1	MTWTh 8 am; 215 OM	Karr
(OSU)	Ed 461 Psychology of Adolescence (C)	3	2	MTWTh 9 am; 247 SH	Wesley
(OSU)	Ed 461 Psychology of Adolescence (C)	3	3	MTWTh 1 pm; 112 OM	Wesley
(OSU)	Ed 461 Psychology of Adolescence (C)	3	4	MTWTh 2 pm; 112 OM	Reed
(PSC)	*Ed 462 Psychology of Exceptional Children (GRAD)	3	1	MTWTh 8 am; 208 OM	Larson
(UO)	Ed 463 The Maladjusted Child (C)	3	1	MTWTh 8 am; 347 SH	J. Becker
(PSC)	*Ed 464 The Mentally Retarded Child (GRAD)	3	1	MTWTh 12 pm; 254 SH	Larson
(UO)	Ed 465 Diagnostic Techniques in the Basic Skills (C)	3	1	MTWTh 10 am; 224 SH	McMenemy
(PSC)	Ed 467 Mental Hygiene (GRAD)	3	1	MTWTh 10 am; 217 OM	Malo
(UO)	Ed 468 Remedial Techniques in the Basic Skills (C)	3	1	MTWTh 11 am; 347 SH	Coforth
(OSU)	Ed 468 Diagnostic and Remedial Techniques in Reading (C)	3	1	MTWTh 12 pm; 102 OM	Taschow
(PSC)	Ed 469 Developmental Reading (GRAD)	3	1	MTWTh 10 am; 102 OM	Phelps
(PSC)	Ed 469 Developmental Reading (GRAD)	3	2	MTWTh 1 pm; 207 OM	Taschow
(UO)	Ed 469 Reading in High School and College (C)	3	1	MTWTh 10 am; 102 OM	Phelps
(UO)	Ed 469 Reading in High School and College (C)	3	2	MTWTh 1 pm; 207 OM	Taschow
(PSC)	Ed 481 Guidance for the Classroom Teacher (GRAD)	3	1	MTWTh 10 am; 387 SPH	Lee
(PSC)	*Ed 484 The Junior High School (GRAD)	3	1	MTWTh 2 pm; 218 OM	Tarbet
(PSC)	Ed 485 Principles and Practices of Guidance Services (GRAD)	3	1	MTWTh 10 am; 338 SPH	Bursch
(PSC)	Ed 485 Principles and Practices of Guidance Services (GRAD)	3	2	MTWTh 11 am; 345 SPH	Bursch
(PSC)	Ed 485 Principles and Practices of Guidance Services (GRAD)	3	3	MTWTh 12 pm; 105 OM	W. E. Johnson
(OSU)	Ed 485 Principles and Practices of Guidance Services (C)	3	1	MTWTh 10 am; 338 SPH	Bursch
(OSU)	Ed 485 Principles and Practices of Guidance Services (C)	3	2	MTWTh 11 am; 345 SPH	Bursch
(OSU)	Ed 485 Principles and Practices of Guidance Services (C)	3	3	MTWTh 12 pm; 105 OM	W. E. Johnson
(OSU)	Ed 486 Occupational and Educational Information (C)	3	1	MTWTh 9 am; 102 OM	J. Manning
(OSU)	Ed 487 Counseling Techniques (C)	3	1	MTWTh 11 am; 358 SH	W. E. Johnson
(OSU)	Ed 487 Counseling Techniques (C)	3	1	MTWTh 2 pm; 102 OM	W. E. Johnson
(PSC)	Ed 493 Observation and Evaluation of Teaching	3	1	By arrangement	Schuberg
(PSC)	Ed 501 Research	3	1	By arrangement	***
(PSC)	Ed 503 Thesis	3	1	By arrangement	***
(PSC)	Ed 505 Reading and Conference	3	1	By arrangement	***
(PSC)	Ed 507 Seminar: Audio-Visual Services for School Librarians	3	1	MW 6 & 7 pm; B-18 Library	Butler

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CLASS SCHEDULE

Inst.	Dept. and No.	Course Title	Cr. Hrs.	Sec. No.	Time & Place	Instructor
(PSC)	Ed 507 Seminar:	Comparative Education	3	2	MTWTh 10 am; 147 SH	Cramer
(PSC)	**Ed 507 Seminar:	Evaluation of the Secondary School	3	3	MTWTh 12 pm; 217 OM	James
(PSC)	Ed 507 Seminar:	Oregon School Law	3	4	MTWTh 8 am; 149 SH	Meindl
(PSC)	Ed 507 Seminar:	Reading and Telling Children's Stories	3	5	MTWTh 11 am; 215 OM	Peterson
(PSC)	Ed 507 Seminar:	Recent Educational Trends and Problems in the Secondary School	3	6	MTWTh 1 pm; 149 SH	James
(PSC)	Ed 507 Seminar:	The Social Science and the Social Studies (June 28 to July 15)	3	7	MTWThF 1 to 3:30 pm; 254 SH	R. Smith
(OSU)	Ed 507 Seminar:	Understanding Research for the Classroom Teacher	3	8	MTWTh 12 pm; 218 OM	Doherty
(PSC)	*Ed 512 Research	Procedures in Education	3	1	MTWTh 10 am; 396 SPH	Kilzer
(UO)	Ed 522 Secondary	School Curriculum	3	1	MTWTh 1 pm; 158 SH	Kohl
(UO)	Ed 522 Secondary	School Curriculum	3	2	MTWTh 2 pm; 158 SH	Kohl
(PSC)	*Ed 523 School	Activities	3	1	MTWTh 9 am; 224 SH	Kilzer
(PSC)	*Ed 523 School	Activities	3	2	MTWTh 12 pm; 147 SH	Kilzer
(UO)	Ed 527 Secondary-School	Administration and Supervision	3	1	MTWTh 11 am; 396 SH	Ditto
(PSC)	*Ed 542 Social	Foundations of Education	3	1	MTWTh 9 am; 203 SH	Guy
(PSC)	*Ed 542 Social	Foundations of Education	3	2	MTWTh 11 am; 349 SH	Guy
(PSC)	Ed 543 History of	American Education	3	1	MTWTh 12 pm; 158 SH	Sands
(OSU)	Ed 543 History of	American Education	3	1	MTWTh 12 pm; 158 SH	Sands
(OSU)	Ed 546 Philosophy	of Education	3	1	MTWTh 8 am; 249 SH	Fen
(OSU)	Ed 546 Philosophy	of Education	3	2	MTWTh 9 am; 215 OM	Sands
(OSU)	Ed 546 Philosophy	of Education	3	3	MTWTh 11 am; 110 OM	Fen
(PSC)	*Ed 547 Advanced	Methods—Elementary: Health	3	1	MTWTh 10 am; 214 OM	Owens
(PSC)	*Ed 547 Advanced	Methods—Elementary: Language Arts	3	1	MTWTh 9 am; 352 SPH	Sigborn
(PSC)	*Ed 547 Advanced	Methods—Elementary: Language Arts	3	2	MTWTh 12 pm; 207 OM	Sigborn
(PSC)	*Ed 547 Advanced	Methods—Elementary: Mathematics	3	1	MTWTh 11 am; 217 OM	Neideigh
(PSC)	*Ed 547 Advanced	Methods—Elementary: Mathematics	3	2	MTWTh 1 pm; 217 OM	Neideigh
(PSC)	*Ed 547 Advanced	Methods—Elementary: Physical Education	3	1	MTWTh 1 pm; 214 OM	Owens
(PSC)	*Ed 547 Advanced	Methods—Elementary: Reading	3	1	MTWTh 11 am; 208 OM	Phelps
(PSC)	*Ed 547 Advanced	Methods—Elementary: Reading	3	2	MTWTh 1 pm; 208 OM	Lee
(PSC)	*Ed 547 Advanced	Methods—Elementary: Science	3	1	MTWTh 8 am; 217 OM	Lange
(PSC)	*Ed 547 Advanced	Methods—Elementary: Social Science	3	1	MTWTh 8 am; 207 OM	Bingham
(PSC)	*Ed 547 Advanced	Methods—Elementary: Social Science	3	2	MTWTh 11 am; 214 OM	Bingham
(PSC)	*Ed 548 Advanced	Methods—Secondary: English	3	1	MTWTh 11 am; 343 SPH	Browne
(PSC)	*Ed 548 Advanced	Methods—Secondary: Mathematics	3	1	MTWTh 9 am; 217 OM	Acheson
(PSC)	*Ed 548 Advanced	Methods—Secondary: Social Science	3	1	MTWTh 11 am; 218 OM	R. Smith
(UO)	Ed 553 Elementary-School	Curriculum	4	1	MTWThF 10 am; 358 SPH	***
(UO)	Ed 554 Elementary-School	Supervision and Administration	4	1	MTWThF 9 am; 387 SPH	***
(OSU)	CC 558 American	Higher Education (June 21 to July 16)	3	1	MTWTh 8 & 9 am; 254 SH	W. H. Cowley
(UO)	Ed 559 Evaluation	of Secondary-School Programs (June 21 to July 16)	3	1	MTWTh 9 & 10 am; 490 SPH	W. Manning
(UO)	Ed 560 Secondary-School	Problems (June 21 to July 16)	3	1	MTWTh 2 & 3 pm; 385 SPH	W. Manning
(PSC)	Ed 561 Advanced	Educational Psychology	3	1	MTWTh 9 am; 149 SPH	Bursch
(UO)	Ed 562 Issues in	Extreme Learning Difficulty	3	1	MTWTh 11 am; 245 SH	McMenemy

** Course designed for classroom teachers.

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EIGHT WEEK TERM

<i>Inst.</i>	<i>Dept. and No. Course Title</i>	<i>Cr. Hrs.</i>	<i>Sec. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
(UO)	Ed 566 Curriculum Construction	4	1	MTWThF 12 pm; 145 SH	Russel
(PSC)	Ed 568 The Curriculum of the Public School	3	1	MTWTh 11 am; 456w SPH	Lee
(PSC)	*Ed 572 Public School Administration and Organization	3	1	MTWTh 12 pm; 387 SPH	Tarbet
(PSC)	*Ed 574 School Supervision	3	1	MW 11 am, 373 OM; TTh 11 am, 312 OM	Tarbet
(UO)	Ed 575 School Finance	3	1	MTWTh 1 pm; 145 SH	Osibov
(UO)	Ed 576 School Buildings (June 21 to July 16)	3	1	MTWTh 7 & 8 am; 213 OM	DeBarnardie
(OSU)	Ed 577 Counselor Training: Group Procedures	3	1	MTWTh 11 am; 387 SPH	K. Pierce
(OSU)	Ed 588 Supervised Counseling Techniques	3	1	T 1 to 5 pm; 261 DCE	K. Pierce
(OSU)	Ed 589 Organization and Administration of Guidance Services	3	1	MTWTh 10 am; 385 SPH	K. Pierce
(UO)	Ed 592 Administration of Colleges and Universities (June 21 to July 16)	3	1	MTWTh 11 & 12 pm; 488 SPH	W. H. Cowley

ENGLISH (See also Humanities, Writing and Special Programs)

(PSC)	Eng 104 Appreciation of Literature (1st term)	3	1	MTWTh 9 am; 343 SPH	Clarke
(PSC)	Eng 104 Appreciation of Literature (1st term)	3	2	MTWTh 12 pm; 343 SPH	Wehh
(PSC)	Eng 105 Appreciation of Literature (2nd term)	3	1	MTWTh 12 pm; 345 SPH	Lindner
(PSC)	Eng 106 Appreciation of Literature (3rd term)	3	1	MTWTh 8 am; 343 SPH	Clarke
(PSC)	Eng 107 World Literature (1st term)	3	1	MTWTh 10 am; 343 SPH	Niva
(PSC)	Eng 107 World Literature (1st term)	3	2	MTWTh 12 pm; 352 SPH	Kelly
(PSC)	Eng 108 World Literature (2nd term)	3	1	MTWTh 2 pm; 352 SPH	Niva
(PSC)	Eng 109 World Literature (3rd term)	3	1	TTh 6 & 7 pm; 352 SPH	Seller
(PSC)	Eng 201 Shakespeare (1st term)	3	1	MTWTh 12 pm; 396 SPH	Niva
(PSC)	Eng 202 Shakespeare (2nd term)	3	1	MTWTh 1 pm; 396 SPH	Dahlstrom
(PSC)	Eng 203 Shakespeare (3rd term)	3	1	MTWTh 11 am; 301 SH	Hart
(PSC)	Eng 253 Survey of American Literature (1st term)	3	1	TTh 6 & 7 pm; 431 SPH	S. Johnson
(PSC)	Eng 254 Survey of American Literature (2nd term)	3	1	MTWTh 8 am; 396 SPH	Ford
(PSC)	Eng 255 Survey of American Literature (3rd term)	3	1	MTWTh 9 am; 396 SPH	Tuttle
(PSC)	Eng 311 Tragedy	3	1	MTWTh 2 pm; 338 SPH	Dahlstrom
(PSC)	Eng 314 Epic	3	1	MTWTh 10 am; 493 SPH	Kelly
(PSC)	Eng 320 English Novel (1st term)	3	1	MTWTh 8 am; 493 SPH	Webb
(PSC)	Eng 364 American Fiction (1st term)	3	1	MTWTh 1 pm; 493 SPH	S. Johnson
(PSC)	Eng 372 The Novel (2nd term)	3	1	MTWTh 10 am; 345 SPH	Scharbach
(PSC)	Eng 385 Contemporary Literature (2nd term)	3	1	MTWTh 1 pm; 345 SPH	Scharbach
(PSC)	Eng 386 Contemporary Literature (3rd term)	3	1	MTWTh 9 am; 345 SPH	Conaway
(PSC)	Eng 415 Literary Criticism (GRAD) (2nd term)	3	1	MTWTh 11 am; 352 SPH	Dahlstrom
(PSC)	Eng 427 Medieval Literature (GRAD) (2nd term)	3	1	MTWTh 1 pm; 435 SPH	B. Wilson
(PSC)	Eng 447 Major Forces in Literature (Victorian Poets) (GRAD)	4	1	MTWTh 7 am; 331 SPH	Boggs
(PSC)	Eng 448 Major Figures in Literature (GRAD)	4	1	MTWTh 9 am; 331 SPH	Ford
(OCE)	Eng 475 Modern American Grammar and Usage (g)	3	1	MTWTh 8 am; 435 SPH	See
(UO)	Eng 488 Literature for Teachers (g)	3	1	MTWTh 11 am; 493 SPH	Ford
(UO)	Eng 488 Literature for Teachers (g)	3	2	MTWTh 2 pm; 431 SPH	Hart
(OCE)	Eng 489 Literature for Adolescents (g)	3	1	MTWTh 9 am; 435 SPH	See
(PSC)	Eng 490 History of the English Language (GRAD)	3	1	MTWTh 2 pm; 435 SPH	B. Wilson
(PSC)	Eng 492 Structure of the English Language	3	1	MTWTh 10 am; 331 SPH	B. Wilson
(PSC)	Eng 507 Seminar: Contemporary Criticism	3	1	MTWTh 11 am; 331 SPH	Yorks

FOODS AND NUTRITION

(OSU)	FN 225 Nutrition	3	1	MTWTh 12 pm; 203 SH	***
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FOREIGN LANGUAGES (See also Special Programs)

(PSC)	RL 313 Survey of French Literature (3rd term)	3	1	MTWTh 12 pm; 47 SPH	Hiraoka
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CLASS SCHEDULE

(PSC) *RL 314, 315, 316 Intermediate French Composition and Conversation				
RL 314 Intermediate French Composition and Conversation (June 21 to July 7)	3	1	MTWTh 10 & 11 am, F 9, 10, & 11 am; 47 SPH	Hiraoka
RL 315 Intermediate French Composition and Conversation (July 8 to July 27)	3	1	MTWTh 10 & 11 am, F9, 10, & 11 am; 47 SPH	Healy
RL 316 Intermediate French Composition and Conversation (July 28 to August 13)	3	1	MTWTh 10 & 11 am, F 9, 10 & 11 am; 47 SPH	Healy
(PSC) RL 331 French Pronunciation and Phonetics	3	1	MTWTh 9 am; 47 SPH	Healy
(PSC) RL 497f French Applied Linguistics	3	1	TTh 1 & 2 pm; 456w SPH	Vecchio
(PSC) *RL 347, 348, 349 Intermediate Spanish Composition and Conversation				
RL 347 Intermediate Spanish Composition and Conversation (June 21 to July 7)	3	1	MTWTh 8 & 9 am, F 8, 9, & 10 am; 431 SPH	Diman
RL 348 Intermediate Spanish Composition and Conversation (July 8 to July 27)	3	1	MTWTh 8 & 9 am, F 8, 9, & 10 am; 431 SPH	Diman
RL 349 Intermediate Spanish Composition and Conversation (July 28 to August 13)	3	1	MTWTh 8 & 9 am, F 8, 9, & 10 am; 431 SPH	Diman
(PSC) RL 497a Spanish Applied Linguistics	3	1	MTWTh 10 am; 456w SPH	Vecchio
(PSC) *GL 334, 335, 336 Intermediate German Composition and Conversation				
GL 334 Intermediate German Composition and Conversation (June 21 to July 7)	3	1	MTWTh 1 & 2 pm, F 1, 2, & 3 pm; 47 SPH	Jespersen
GL 335 Intermediate German Conversation and Composition (July 8 to July 27)	3	1	MTWTh 1 & 2 pm, F 1, 2, & 3 pm; 47 SPH	Jespersen
GL 336 Intermediate German Composition and Conversation (July 28 to August 13)	3	1	MTWTh 1 & 2 pm, F 1, 2, & 3 pm; 47 SPH	Jespersen
(PSC) *GL 494, 495, 496) Germanic Linguistics				
GL 494 Germanic Linguistics (June 21 to July 7)	2	1	MTWTh 10 & 11 am; 431 SPH	Vehvilainen
GL 495 Germanic Linguistics (July 8 to July 27)	2	1	MTWTh 10 & 11 am; 431 SPH	Vehvilainen
GL 496 Germanic Linguistics (July 28 to August 13)	2	1	MTWTh 10 & 11 am; 431 SPH	Vehvilainen
(PSC) GL 497 German Applied Linguistics	3	1	MTWTh 9 am; 493 SPH	Vehvilainen

GENERAL SCIENCE

(PSC) GS 407 Seminar: Ornithology	3	1	MTW 7 & 8 am, Th 8 & 9 am; 314 OM	Wirta
(PSC) GS 407 Seminar: Modern Concepts of Meteorology	3	1	MW 1 & 2 pm; 154 SH	Black
(PSC) GS 407 Seminar: Modern Topics in Astronomy	3	1	TTh 1 & 2 pm; 154 SH	Dolan

GENERAL STUDIES

(PSC) GS: 403 Life of the Past	3	1	MTTh 1 & 2 pm; 1 SH	Gorman
(PSC) GS: 411 Meaning of Evolution	3	1	MTWTh 12 & 1 pm; 245 SH	Clarkson

GEOGRAPHY (See also Special Programs)

(PSC) Geog 105 Introductory Geography (1st term)	3	1	MTWTh 9 am; 371 SH	Winters
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* Registration for less than the full sequence will be accepted only over the instructor's signature.

EIGHT WEEK TERM

<i>Inst.</i>	<i>Dept. and No.</i>	<i>Course Title</i>	<i>Cr. Hrs.</i>	<i>Sec. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
(PSC)	Geog 105	Introductory Geography (1st term)	3	2	MTWTh 11 am; 371 SH	Winters
(PSC)	Geog 105	Introductory Geography (1st term)	3	3	TTh 6 & 7 pm; 371 SH	Haratani
(PSC)	Geog 106	Introductory Geography (2nd term)	3	1	MTWTh 1 pm; 371 SH	Brooke
(PSC)	Geog 106	Introductory Geography (2nd term)	3	2	MTWTh 3 pm; 371 SH	Haratani
(PSC)	Geog 107	Introductory Geography (3rd term)	3	1	MTWTh 12 pm; 371 SH	Poulsen
(PSC)	Geog 305	Industrial Geography	3	1	MTWTh 1 pm; 383 SH	Northam
(PSC)	Geog 313	Geography of the Pacific Northwest	3	1	MTWTh 7 am; 371 SH	Rockie
(PSC)	Geog 329	Geography of North America	3	1	MTWTh 10 am; 371 SH	Northam
(PSC)	Geog 407	Seminar: Middle East	3	1	MTWTh 2 pm; 383 SH	Brooke
(PSC)	Geog 412	Political Geography (GRAD)	3	1	MTWTh 8 am; 383 SH	Poulsen
(PSC)	Geog 414	Geographic Background of American History (GRAD)	3	1	MTWTh 12 pm; 383 SH	Northam
(PSC)	Geog 426	Geography of Europe (GRAD)	3	1	MTWTh 1 pm; 283 SH	Winters
(PSC)	Geog 427	Geography of the Soviet Union (GRAD)	3	1	MTWTh 9 am; 383 SH	Poulsen
(UO)	Geog 427	Geography of the Soviet Union (G)	3	1	MTWTh 9 am; 383 SH	Poulsen
(PSC)	Geog 432	Geography of Africa (GRAD)	3	1	MTWTh 11 am; 283 SH	Brooke
(UO)	Geog 432	Geography of Africa (G)	3	1	MTWTh 11 am; 283 SH	Brooke
(UO)	Geog 433	Political Geography (G)	3	1	MTWTh 8 am; 383 SH	Poulsen
(UO)	Geog 452	Geography of Southern Asia (G)	3	1	MTWTh 2 pm; 371 SH	Haratani
(PSC)	Geog 507	Seminar: Geography of the Middle East	3	1	MTWTh 2 pm; 383 SH	Brooke

GEOLOGY

(PSC)	G 350	Rocks and Minerals	3	1	MTTh 8 & 9 am; 1 SH	Van Atta
(PSC)	G 351	Elements of Geology	3	1	MTTh 10 & 11 am; 1 SH	Van Atta
(PSC)	G 352	Geology of the Oregon Country	3	1	MTTh 1 & 2 pm; 45 SH	Van Atta
(PSC)	G 353	Geology of the United States	3	1	MTTh 8 & 9 am; 45 SH	Gorman
(PSC)	G 353	Geology of the United States	3	2	MTTh 10 & 11 am; 45 SH	Gorman

HEALTH, PHYSICAL EDUCATION, RECREATION (See also Special Programs)

(PSC)	HE 150	Health Education (Personal Hygiene)	1	1	T 2 to 3:15 pm; 101 SH	Neklason
(PSC)	HE 252	First Aid	3	1	MTWTh 12 pm; 103 SH	Washke
(PSC)	HE 252	First Aid	3	2	MTWTh 1 pm; 345 SH	McNally
(PSC)	HE 367	School Health Services	3	1	MTWTh 11 am; 102 OM	McNally
(PSC)	PE 180	Physical Education (Women) Bowling	1	1	MTWTh 12 pm; CC	Westcott
(PSC)	PE 180	Physical Education (Women) Bowling	1	2	MTWTh 1 pm; CC	Lehman
(PSC)	PE 180	Physical Education (Women) Badminton	1	3	MTWTh 12 pm; Gym	Neklason
(PSC)	PE 180	Physical Education (Women) Social, Folk, and Square Dance	1	4	MTWTh 11 am; Gym	Lehman
(PSC)	PE 180	Physical Education (Women) Fundamentals	1	5	MTWTh 10am; 049 SH	Neklason
(PSC)	PE 190	Physical Education (Men) Bowling	1	1	MTWTh 12 pm; CC	Westcott
(PSC)	PE 190	Physical Education (Men) Bowling	1	2	MTWTh 1 pm; CC	Lehman
(PSC)	PE 190	Physical Education (Men) Badminton	1	3	MTWTh 12 pm; Gym	Neklason
(PSC)	PE 190	Physical Education (Men) Social, Folk, and Square Dance	1	4	MTWTh 11 am; Gym	Lehman
(PSC)	PE 190	Physical Education (Men) Volleyball	1	5	MTWTh 10 am; Gym	Westcott
(PSC)	PE 194	Professional Activities (Women) Fundamentals of Body Movement	1	1	MTWTh 10 am; 049 SH	Neklason
((PSC)	PE 294	Professional Activities (Women) Social, Folk, and Square Dance	2	1	MTWTh 11 & 12 pm; Gym	Lehman
(PSC)	PE 295	Professional Activities (Men) Social, Folk, and Square Dance	2	1	MTWTh 11 & 12 pm; Gym	Lehman
(PSC)	PE 445	The School Program	3	1	MTWTh 9 am; 196 SH	Westcott
(UO)	PE 515	History and Theories of Physical Education	3	1	MTWTh 9 am; 296 SH	Washke
(UO)	PE 516	Intramural Organization and Management	3	1	MTWTh 10 am; 221 SH	Washke

HISTORY (See also Special Programs)

(PSC)	Hst 101	History of Western Civilization (1st term)	3	1	MTWTh 8 am; 150 SH	***
(PSC)	Hst 102	History of Western Civilization (2nd term)	3	1	MTWTh 9 am; 150 SH	***

CLASS SCHEDULE

(PSC) Het 103 History of Western Civilization (3rd term)	3	1	MTWTh 12 pm; 150 SH	Stevens
(PSC) Het 201 History of the United States (1st term)	3	1	MTWTh 8 am; 101 SH	Frazier
(PSC) Het 201 History of the United States (1st term)	3	2	MW 6 & 7 pm; 101 SH	Hitchman
(PSC) Het 202 History of the United States (2nd term)	3	1	MTWTh 9 am; 101 SH	Picht
(PSC) Het 203 History of the United States (3rd term)	3	1	MTWTh 12 pm; 101 SH	Kerr
(PSC) Het 341 Europe Since 1789 (1st term)	3	1	MTWTh 1 pm; 250 SH	C. K. Smith
(PSC) Het 393 Far East in Modern Times (3rd term)	3	1	TTh 6 & 7 pm; 224 SH	Webb
(PSC) Het 405 Reading and Conference	1-4	1	By arrangement	***
(PSC) Het 407 Seminar	3	1	By arrangement	Kerr
(PSC) Het 420 Historiography	3	1	By arrangement	***
(UO) Het 438 History of Germany (G) (2nd term)	3	1	TTh 8 & 9 pm; 224 SH	***
(PSC) Het 449 History of Russia (GRAD) (3rd term)	3	1	MW 6 & 7 pm; 224 SH	Webb
(UO) Het 449 History of Russia (G) (3rd term)	3	1	MW 6 & 7 pm; 224 SH	Webb
(UO) Het 457 The Era of American Sectional Conflict (G)	3	1	MTWTh 11 am; 225 SH	Picht
(PSC) Het 457 The United States in the 19th Century (1st term)	3	1	MTWTh 11 om; 225 SH	Picht
(PSC) Het 462 History of American Thought and Culture (GRAD) (3rd term)	3	1	MW 6 & 7 pm; 228 SH	Frazier
(UO) Het 462 History of American Thought and Culture (G) (3rd term)	3	1	MW 6 & 7 pm; 228 SH	Frazier
(UO) Het 468 Victorian England (G)	3	1	MTWTh 10 am; 158 SH	Stevens
(PSC) Het 469 Twentieth-Century England (GRAD)	3	1	MTWTh 11 am; 224 SH	Stevens
(UO) Het 469 Twentieth-Century England (G)	3	1	MTWTh 11 am; 224 SH	Stevens
(UO) Het 475 American Foreign Relations (G)	3	1	TTh 6 & 7 pm; 228 SH	Kerr
(PSC) Het 475 American Foreign Relations (3rd term)	3	1	TTh 6 & 7 pm; 228 SH	Kerr
(PSC) Het 476 History of the West (1st term)	3	1	TTh 8 & 9 pm; 228 SH	Picht
(UO) Het 476 History of the West (G) (1st term)	3	1	TTh 8 & 9 pm; 228 SH	Picht
(UO) Het 478 History of the Pacific Northwest (G)	3	1	MTWTh 1 pm; 171 SH	Gilmore
(PSC) Het 478 History of the Pacific Northwest	3	1	MTWTh 1 pm; 171 SH	Gilmore
(PSC) Het 482 The United States in the Twentieth Century (GRAD) (3rd term)	3	1	MW 8 & 9 pm; 228 SH	Hitchman
(UO) Het 482 The United States in the Twentieth Century (G) (3rd term)	3	1	MW 8 & 9 pm; 228 SH	Hitchman
(PSC) Het 484 Early History of the American People 1482-1763	3	1	MTWTh 10 am; 435 SPH	Frazier
(UO) Het 484 Early History of the American People 1482-1763 (G)	3	1	MTWTh 10 am; 435 SPH	Frazier
(PSC) Het 487 American Economic History (GRAD) (1st term)	3	1	MTWTh 1 pm; 401 SH	Brinkman
(OCE) Het 492 World Problems (g)	3	1	MW 8 & 9 pm; 224 SH	Webb
(PSC) Het 501 Research	2-4	1	By arrangement	***
(PSC) Het 503 Thesis	2-6	1	By arrangement	***
(PSC) Het 505 Reading and Conference	2-4	1	By arrangement	***
(PSC) Het 507 Seminar	3	1	By arrangement	***

HUMANITIES (See also Special Programs)

(PSC) Hum 10 Colloquium on Existentialism (noncredit)	(2)	1	T 7 to 9:30 pm; 435 SPH	Newhall
(PSC) Hum 407 Seminar: Magazine Article Writing	3	1	MTWTh 1 pm; 431 SPH	Penk
(PSC) Hum 407 Seminar: Nineteenth Century French Poetry	3	1	MTWTh 1 pm; 296 SH	Hiraoka
(PSC) Hum 407 Seminar: The Modernista Movement in Spanish American Literature	3	1	MTWTh 11 am; 492 SPH	Vecchio
(PSC) Hum 501 Special Studies	1-4	1	By arrangement	***
(OCE) Hum 502 Workshop: Structural Grammar for the Classroom Teacher, Grades 7-12	3	1	MTWTh 12 pm; 331 SPH	See
(PSC) Hum 505 Reading and Conference	1-4	1	By arrangement	***
(PSC) Hum 507 Seminar: Dante	3	1	MW 6 & 7 pm; 331 SPH	Beall
(PSC) Hum 507 Seminar: The Renaissance in France	3	1	MTWTh 11 am; 254 SH	Beall
(PSC) Hum 507 Seminar: The Renaissance in Italy	3	1	MTWTh 10 am; 296 SH	Beall
(PSC) Hum 507 Seminar: Existentialism and the Irrational in Modern European Literature	3	1	MTWTh 1 pm; 352 SPH	Hart

EIGHT WEEK TERM

<i>Inst.</i>	<i>Dept. and No.</i>	<i>Course Title</i>	<i>Cr. Sec. Hrs. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
(PSC)	Hum 507	Seminar: Nineteenth Century French Poetry	3 1	MTWTh 1 pm; 296 SH	Hiraoka
(PSC)	Hum 507	Seminar: The Art of the Film	4 1	TTh 1, 2, & 3 pm; 183 SH	Deinum
(PSC)	Hum 507	Seminar: The Modernista Movement in Spanish American Literature	3 1	MTWTh 11 am; 492 SPH	Vecchio

JOURNALISM

(PSC)	J 455	Supervision of School Publications	3 1	MTWTh 2 pm; 296 SH	Penk
(UO)	J 459	Publicity and Public Relations (C)	3 1	W 6:45 to 9:30 pm; 296 SH	Ewan

LIBRARY SCIENCE

(PSC)	Lib 481	Bibliography and Reference (GRAD) (June 21 to July 15)	3 1	MTWTh 8 & 9 am; 488 SPH	Wiita
(UO)	Lib 483	Principles of Book Selection (G)	3 1	MTWTh 1 pm; 347 SH	***
(PSC)	Lib 484	School Library Administration (GRAD)	3 1	MTWTh 10 am; 196 SH	***
(UO)	Lib 485	Advanced Bibliography and Reference (G)	3 1	MTWTh 12 pm; 149 SH	***
(PSC)	Lib 486	Introduction to Cataloging and Classification (GRAD) (June 21 to July 15)	3 1	MTWTh 11 & 12 pm; 435 SPH	Wiita
(PSC)	Lib 488	Books and Related Materials for Young People (GRAD)	3 1	MTWTh 3 pm; 338 SPH	LaRiviere
(PSC)	Lib 490	Children's Literature and Library (GRAD)	3 1	TTh 6 & 7 pm; 111 OM	LaRiviere
(PSC)	Ed 507	Seminar: Audio-Visual Services for School Librarians	3 1	MW 6 & 7 pm; B-18 Library	Butler

MATHEMATICS (See also Special Programs)

(PSC)	Mth 10	Elements of Algebra (noncredit)	(3) 1	MTWTh 11 am; 105 OM	Bennett
(PSC)	**Mth 10-100	Elements of Algebra and Intermediate Algebra	(3)&4 1	MTWTh 8 & 9 am; 105 OM	Champie
(PSC)	Mth 100	Intermediate Algebra	4 1	MTWThF 8 am; 103 OM	Gilmore
(PSC)	Mth 100	Intermediate Algebra	4 2	MTWThF 2 pm; 105 OM	Bell
(PSC)	Mth 100	Intermediate Algebra	4 3	MW 6 to 8:30 pm; 105 OM	Hassett
(PSC)	Mth 101	College Algebra	4 1	MTWThF 11 am; 103 OM	M. Balogh
(PSC)	Mth 101	College Algebra	4 2	MTWThF 1 pm; 105 OM	Bell
(PSC)	Mth 102	Trigonometry	4 1	MTWThF 3 pm; 105 OM	Sinclair
(PSC)	Mth 102	Trigonometry	4 2	TTh 6 to 8:30 pm; 105 OM	Hassett
(PSC)	Mth 103	Analytic Geometry	4 1	MW 6 to 8:30 pm; 103 OM	Flanagan
(PSC)	Mth 104	Introductory College Mathematics (1st term)	4 1	MTWThF 2 pm; 111 OM	Sinclair
(PSC)	Mth 105	Introductory College Mathematics (2nd term)	4 1	MTWThF 8 am; 111 OM	Brannon
(PSC)	Mth 110	Mathematics of Finance	4 1	MTWThF 7 am; 105 OM	Gilmore
(PSC)	Mth 111	Mathematics for Elementary Teachers (1st term)	3 1	MTWTh 10 am; 105 OM	Stanton
(PSC)	*Mth 111-112	Mathematics for Elementary Teachers	3&3 1	MTWTh 12 & 1 pm; 111 OM	Stanton
(PSC)	Mth 200	Calculus with Analytic Geometry (1st term)	4 1	MTWThF 9 am; 103 OM	M. Balogh
(PSC)	Mth 203	Calculus with Analytic Geometry (4th term)	4 1	MTWThF 10 am; 111 OM	C. Balogh
(PSC)	Mth 207	Calculus (1st term)	4 1	MTWThF 11 am; 111 OM	C. Balogh
(PSC)	Mth 209	Calculus (3rd term)	4 1	TTh 6 to 8:30 pm; 103 OM	Flanagan
(PSC)	*Mth 311-312	Advanced Calculus	3&3 1	MTWTh 3 & 4 pm; 121 OM	Lange
(PSC)	*Mth 321-322	Differential Equations	3&3 1	MTWTh 8 & 9 am; 121 OM	Tauber
(PSC)	Mth 324	Vector Analysis	3 1	MTWTh 11 am; 121 OM	Tauber
(PSC)	*Mth 342-343	Basic Concepts of Algebra	3&3 1	MTWTh 12 & 1 pm; 121 OM	Harris
(PSC)	Mth 351	Computer Coding	3 1	MTWTh 11 am; 213 OM	Champie
(PSC)	Mth 407	Seminar: Analysis	3 1	MTWTh 10 am; 121 OM	Harris
(PSC)	Mth 407	Seminar: Applied Mathematics	3 1	MTWTh 1 pm; 102 OM	Lange

** Students must register for both Mth 10 (3 hours noncredit) and Mth 100 (4 hours).

* Students must register for both numbers concurrently.

CLASS SCHEDULE

<i>Inst.</i>	<i>Dept. and No.</i>	<i>Course Title</i>	<i>Cr. Hrs.</i>	<i>Sec. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
(PSC)	Mth 464-465	Elements of Statistical Methods	3&3	1	MTWTh 9 & 10 am; 112 OM	Bennett
(PSC)	Mth 464-465	Elements of Statistical Methods	3&3	2	MTWTh 9 & 10 am; 213 OM	McLean
(PSC)	Mth 507	Seminar: Analysis	3	1	MTWTh 10 am; 121 OM	Harris
(PSC)	Mth 507	Seminar: Applied Mathematics	3	1	MTWTh 1 pm; 102 OM	Lange

MUSIC (See also Special Programs)

(PSC)	Mus 190	Applied Music	1-2	1	By arrangement	Stehn
(PSC)	Mus 195	Band	1	1	TTh 7:30 to 9 pm; 453 SH	Mack
(PSC)	Mus 197	Chorus	1	1	TTh 12 pm; 453 SH	Albertson
(PSC)	Mus 290	Applied Music	1-2	1	By arrangement	Stehn
(PSC)	Mus 301	Survey of Music and Music Literature (1st term)	3	1	MW 6 & 7 pm; 349 SH	Turrell
(PSC)	Mus 302	Survey of Music and Music Literature (2nd term)	3	1	MTWTh 12 pm; 349 SH	Turrell
(PSC)	Mus 303	Survey of Music and Music Literature (3rd term)	3	1	MTWTh 10 am; 349 SH	Goldstein
(PSC)	Mus 324	Choral Conducting	2	1	MTWTh 12 pm; 453 SH	Albertson
(PSC)	Mus 381	Music Fundamentals (1st term)	3	1	MTWTh 1 pm; 449 SH	Lobaugh
(PSC)	Mus 382	Music Fundamentals (2nd term)	3	1	MTWTh 11 am; 449 SH	Lobaugh
(PSC)	Mus 383	Music Fundamentals (Teacher Education)	3	1	MTWTh 9 am; 449 SH	Albertson
(PSC)	Mus 390	Applied Music	1-2	1	By arrangement	Stehn
(PSC)	Mus 395	Band	1	1	TTh 7:30 to 9 pm; 453 SH	Mack
(PSC)	Mus 397	Chorus	1	1	TTh 12 pm; 453 SH	Albertson
(PSC)	Mus 414	Composition I (GRAD) (1st term)	2	1	MTWTh 10 am; 449a SH	Crowley
(PSC)	Mus 415	Composition I (GRAD) (2nd term)	2	1	MTWTh 10 am; 449a SH	Crowley
(PSC)	Mus 416	Composition I (GRAD) (3rd term)	2	1	MTWTh 10 am; 449a SH	Crowley
(PSC)	Mus 441	Advanced Conducting (GRAD) (1st term)	3	1	MTWTh 11 am; 453 SH	Stehn
(PSC)	Mus 442	Advanced Conducting (GRAD) (2nd term)	3	1	MTWTh 11 am; 453 SH	Stehn
(PSC)	Mus 443	Advanced Conducting (GRAD) (3rd term)	3	1	MTWTh 11 am; 453 SH	Stehn
(PSC)	Mus 490	Applied Music	1-2	1	By arrangement	Stehn
(PSC)	Mus 501	Special Studies: Nineteenth Century Orchestra Music	3	1	MTWTh 12 pm; 449a SH	Stehn
(PSC)	Mus 501	Special Studies: Junior High School Music	3	2	MTWTh 8 am; 449 SH	Albertson
(PSC)	Mus 501	Special Studies: Music in Elementary School	3	3	MTWTh 10 am; 449 SH	Lobaugh
(PSC)	Mus 507	Seminar: Twentieth Century Music	3	1	TTh 6 & 7 pm; 349 SH	Crowley
(PSC)	Mus 507	Seminar: Music and Civilization	3	2	MTWTh 1 pm; 349 SH	Turrell
(PSC)	Mus 517	Advanced Harmony (1st term)	2	1	MTWTh 9 am; 349 SH	Crowley
(PSC)	Mus 518	Advanced Harmony (2nd term)	2	1	MTWTh 9 am; 349 SH	Crowley
(PSC)	Mus 519	Advanced Harmony (3rd term)	2	1	MTWTh 9 am; 349 SH	Crowley
(PSC)	Mus 590	Applied Music	1-2	1	By arrangement	Stehn

PHILOSOPHY

(PSC)	Phl 201	Problems of Philosophy	3	1	MTWTh 8 am; 271 SH	Passell
(PSC)	Phl 201	Problems of Philosophy	3	2	MTWTh 10 am; 271 SH	Passell
(PSC)	Phl 201	Problems of Philosophy	3	3	MTWTh 1 pm; 385 SPH	Polonoff
(PSC)	Phl 201	Problems of Philosophy	3	4	MW 6 & 7 pm; 385 SPH	Polonoff
(PSC)	Phl 202	Elementary Ethics	3	1	MTWTh 9 am; 385 SPH	Newhall
(PSC)	Phl 202	Elementary Ethics	3	2	MTWTh 2 pm; 345 SPH	Conroy
(PSC)	Phl 202	Elementary Ethics	3	3	TTh 6 & 7 pm; 345 SPH	Conroy
(PSC)	Phl 203	Elementary Logic	3	1	MTWTh 11 am; 385 SPH	Newhall
(PSC)	Phl 203	Elementary Logic	3	2	MTWTh 1 pm; 488 SPH	Glossop
(PSC)	Phl 204	Elementary Aesthetics	3	1	MTWTh 1 pm; 387 SPH	Conroy
(PSC)	Phl 301	History of Philosophy (1st term)	3	1	MTWTh 12 pm; 385 SPH	Glossop
(PSC)	Phl 301	History of Philosophy (1st term)	3	2	MW 6 & 7 pm; 345 SPH	Glossop
(PSC)	Phl 451	Philosophical Classics (1st term)	3	1	MTWTh 11 am; 314 OM	Polonoff
(OSU)	Phl 460	Philosophy of Religion (g)	3	1	MTWTh 12 pm; 296 SH	R. O. Clarke

PHYSICAL EDUCATION (See Health, Physical Education, and Recreation)

* Students must register for both numbers concurrently.

EIGHT WEEK TERM

<i>Inst.</i>	<i>Dept. and No.</i>	<i>Course Title</i>	<i>Cr. Hrs.</i>	<i>Sec. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
PHYSICS						
(PSC)	Ph 407	Seminar: Modern Topics for Physica Teachers	9	1	MTThF 9, 10, & 11 am; 303 SH	Gurevitch
(UO)	*Ph 411, 412, 413	Modern Physics (G)				
	Ph 411	Modern Physics (G) (June 21 to July 7)	3	1	MTThF 9, 10, & 11 am; 303 SH	Gurevitch
	Ph 412	Modern Physics (G) (July 8 to July 27)	3	1	MTThF 9, 10, & 11 am; 303 SH	Gurevitch
	Ph 413	Modern Physics (G) (July 29 to August 13)	3	1	MTThF 9, 10, & 11 am; 303 SH	Gurevitch
(PSC)	Ph 507	Seminar: Modern Topics for Physica Teachers	9	1	MTThF 9, 10, & 11 am; 303 SH	Gurevitch
(OSU)	Ph 520	Astronomy	3	1	TTh 1 & 2 pm; 154 SH	Dolan
POLITICAL SCIENCE						
(PSC)	PS 201	American Government (1st term)	3	1	MTWTh 9 am; 171 SH	Dean
(PSC)	PS 201	American Government (1st term)	3	2	TTh 6 & 7 pm; 101 SH	Lee
(PSC)	PS 202	American Government (2nd term)	3	1	MTWTh 10 am; 53 SH	Smeltzer
(PSC)	PS 203	American Government (3rd term)	3	1	MTWTh 1 pm; 53 SH	Smeltzer
(PSC)	PS 322	American Foreign Policy	3	1	MTWTh 9 am; 225 SH	Schuman
(PSC)	PS 407	Seminar: Problems of Political Science.	3	1	TTh 8 & 9 pm; 147 SH	Haggard
(PSC)	PS 407	Seminar: Problems of State Governments	3	1	MW 6 & 7 pm; 247 SH	Lee
(PSC)	PS 407	Seminar: Supreme Court and Fundamental Freedoms	3	1	MTWTh 11 am; 196 SH	Dean
(UO)	PS 427	Government and Politics of the Soviet Union (G) (1st term)	3	1	MTWTh 11 am; 401 SH	Schuman
(PSC)	PS 438	Communist Governments	3	1	MTWTh 11 am; 401 SH	Schuman
(UO)	PS 454	Competing Ideologies in the World Today (G)	3	1	MW 8 & 9 pm; 345 SH	Gervais
(UO)	PS 455	Area Tensions in the World Today (G)	3	1	MTWTh 11 am; 345 SH	Munk
(PSC)	PS 482	The Legislature in American Government	3	1	MTWTh 2 pm; 147 SH	Smeltzer
(OCE)	Ssc 493	International Organizations (g)	3	1	MTWTh 10 am; 43 SH	Munk
(PSC)	PS 507	Seminar: Problems of Political Science.	3	1	TTh 8 & 9 pm; 147 SH	Haggard
(PSC)	PS 507	Seminar: Problems of State Governments	3	1	MW 6 & 7 pm; 247 SH	Lee
(PSC)	PS 507	Seminar: Supreme Court and Fundamental Freedoms	3	1	MTWTh 11 am; 196 SH	Dean
PSYCHOLOGY (See also Special Programs)						
(PSC)	Psy 201	General Psychology (1st term)	3	1	MTWTh 9 am; 250 SH	Jones
(PSC)	Psy 201	General Psychology (1st term)	3	2	MTWTh 10 am; 250 SH	Sengstake
(PSC)	Psy 201	General Psychology (1st term) (for nurses only) (June 21 to July 16)	3	3	MTWTh 8 & 9 am; UO Med Sch	Nunokawa
(PSC)	Psy 202	General Psychology (2nd term)	3	1	MTWTh 11 am; 53 SH	Sengstake
(PSC)	Psy 202	General Psychology (2nd term) (for nurses only) (July 19 to August 13)	3	2	MTWTh 8 & 9 am; UO Med Sch	Nunokawa
(PSC)	Psy 203	General Psychology (3rd term)	3	1	MTWTh 10 am; 301 SH	Jones
(PSC)	Psy 311	Human Development	3	1	MTWTh 10 am; 171 SH	Powloski
(PSC)	Psy 311	Human Development	3	2	MTWTh 11 am; 203 SH	Karr
(PSC)	Psy 311	Human Development	3	3	MTWTh 12 pm; 183 SH	Powloski
(PSC)	Psy 311	Human Development	3	4	MTWTh 1 pm; 203 SH	Sengstake
(PSC)	Psy 318	Applied Psychology	3	1	MTWTh 12 pm; 347 SH	Wesley
(PSC)	Psy 335	Counseling and Testing	3	1	MTWTh 1 pm; 303 SH	R. E. Smith

* Registration for less than the full sequence will be accepted only over the instructor's signature.

CLASS SCHEDULE

<i>Inst.</i>	<i>Dept. and No.</i>	<i>Course Title</i>	<i>Cr. Hrs.</i>	<i>Sec. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
(PSC)	Psy 345	Psychology of Motivation	3	1	MTWTh 12 pm; 249 SH	Karr
(PSC)	Psy 346	Psychology of Learning	3	1	MTWTb 1 pm; 373 OM	Powloski
(OSU)	Psy 413x	Systems and Theories of Modern Psychology (g)	3	1	MTWTh 9 am; 301 SH	Madden
(UO)	Psy 421	Principles and Methods of Psychological Assessment (g) (1st term)	3	1	MTWTh 11 am; 296 SH	Nunokawa
(OSU)	Psy 423	Psychological Assessment: Group Testing (g)	3	1	MTWTh 10 am; 345 SH	Madden
(OSU)	Psy 435x	Personality Theories (g)	3	1	MTWTh 10 am; 347 SH	Madden
(UO)	Psy 450	Abnormal Psychology (g)	3	1	MW 6 & 7 pm; 249 SH	Manning
(PSC)	Psy 460	Developmental Psychology (GRAD) (1st term)	3	1	MTWTh 1 pm; 101 SH	Manning
(PSC)	Psy 460	Developmental Psychology (GRAD) (1st term)	3	2	MTWTh 12 pm; 215 OM	Reed
(PSC)	Psy 460	Developmental Psychology (GRAD) (1st term)	3	3	MTWTh 2 pm; 215 OM	Manning
(PSC)	Psy 460	Developmental Psychology (GRAD) (1st term)	3	4	MTWTh 11 am; 158 SH	Reed
(PSC)	Psy 461	Developmental Psychology (GRAD) (2nd term)	3	1	MTWTh 8 am; 215 OM	Karr
(PSC)	Psy 461	Developmental Psychology (GRAD) (2nd term)	3	2	MTWTh 9 am; 247 SH	Wesley
(PSC)	Psy 461	Developmental Psychology (GRAD) (2nd term)	3	3	MTWTh 1 pm; 112 OM	Wesley
(PSC)	Psy 461	Developmental Psychology (GRAD) (2nd term)	3	4	MTWTh 2 pm; 112 OM	Reed
(PSC)	Psy 473	Individual Differences (GRAD) (2nd term)	3	1	MTWTh 12 pm; 345 SH	Jones
(UO)	Psy 524	Individual Intelligence Testing	4	1	MTWThF 9 am; 358 SPH	R. E. Smith
(UO)	Psy 525	Individual Intelligence Testing	2	1	MWTh 10 am; 352 SPH	R. E. Smith

RELIGION

(OSU)	R 312	The Old Testament and its Historical Background	3	1	MTWTh 9 am; 154 SH	R. O. Clarke
(OSU)	R 407	Seminar: Religion in Contemporary Society	3	1	MTWTh 10 am; 154 SH	R. O. Clarke
(OSU)	Phl 460	Philosophy of Religion (g)	3	1	MTWTh 12 pm; 296 SH	R. O. Clarke

SCIENCE (See also Special Programs)

(PSC)	Sci 507	Seminar: Modern Concepts of Meteorology	3	1	MW 1 & 2 pm; 154 SH	Black
(PSC)	Sci 507	Seminar: Modern Topics in Astronomy	3	1	TTh 1 & 2 pm; 154 SH	Dolan
(PSC)	Sci 507	Seminar: Ornithology	3	1	MTW 7 & 8 am; Th 8 & 9 am; 314 OM	Wirtz
(PSC)	Sci 507	Seminar: PSSC Physics	3	1	MTWTh 10 am, F 10 & 11 am; 212 OM	Porter

SECRETARIAL SCIENCE (See Business Administration)

SOCIAL SCIENCE

(OCE)	SSc 493	International Organizations (g)	3	1	MTWTh 10 am; 43 SPH	Munk
(PSC)	SSc 501	Research	1-3	1	By arrangement	***
(PSC)	SSc 503	Thesis	1-3	1	By arrangement	***
(PSC)	SSc 505	Reading and Conference	1-3	1	By arrangement	***
(PSC)	SSc 507	Seminar	1-3	1	By arrangement	***

SOCIOLOGY (See also Special Programs)

(PSC)	Soc 204	General Sociology (1st term)	3	1	MTWTh 9 am; 271 SH	McGillivray
(PSC)	Soc 205	General Sociology (2nd term)	3	1	MTWTh 8 am; 171 SH	James
(PSC)	Soc 206	General Sociology (3rd term)	3	1	MTWTh 11 am; 103 SH	Finley
(PSC)	Soc 212	Introduction to Sociology	3	1	MTWTh 12 pm; 171 SH	McGillivray
(UO)	Soc 301	American Society	3	1	MTWTh 10 am; 283 SH	Glazer
(PSC)	Soc 335	Social Psychology (2nd term)	3	1	MTWTh 10 am; 103 SH	Finley

EIGHT WEEK TERM

<i>Instr.</i>	<i>Dept.</i> <i>and No.</i>	<i>Course Title</i>	<i>Cr.</i>	<i>Sec.</i>	<i>Hrs. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
(PSC)	Soc 338	Marriage and the Family	3	1		MTWTh 11 am; 271 SH	Drum
(PSC)	Soc 370	Sociology of Deviancy	3	1		MTWTh 1 pm; 103 SH	McGillivray
(PSC)	Soc 381	Introduction to Social Research (1st term)	3	1		MTWTh 1 pm; 249 SH	Glaser
(PSC)	Soc 407	Seminar: Social Welfare Resources and Organization	3	1		TTh 3 & 4 pm; 245 SH	Drum
(UO)	Soc 407	Seminar: Social Welfare Resources and Organization (G)	3	1		TTh 3 & 4 pm; 245 SH	Drum
(PSC)	Soc 416	Criminology and Delinquency (1st term)	3	1		MTWTh 1 pm; 301 SH	Drum
(PSC)	Soc 417	Criminology and Delinquency (GRAD) (2nd term)	3	1		MTWTh 12 pm; 301 SH	Glaser
(PSC)	Soc 421	Social Change	3	1		MTWTh 9 am; 221 SH	James
(PSC)	Soc 424	Small Groups (GRAD)	3	1		MTWTh 11 am; 221 SH	James
(PSC)	Soc 439	Mass Communication and Persuasion (GRAD)	3	1		MTWTh 1 pm; 258 SH	Finley
(UO)	Soc 440	Criminology and Delinquency (g) (1st term)	3	1		MTWTh 1 pm; 301 SH	Drum
(UO)	Soc 441	Criminology and Delinquency (g) (2nd term)	3	1		MTWTh 12 pm; 301 SH	Glaser

SPEECH (See also Special Programs)

(PSC)	Sp 111	Fundamentals of Speech (1st term)	3	1		MTWTh 9 am; 39 SPH	Sugarman
(PSC)	Sp 111	Fundamentals of Speech (1st term)	3	2		MTWTh 10 am; 39 SPH	Padrow
(PSC)	Sp 111	Fundamentals of Speech (1st term)	3	3		MTWTh 12 pm; 39 SPH	Padrow
(PSC)	Sp 111	Fundamentals of Speech (1st term)	3	4		MTWTh 1 pm; 39 SPH	McMurray
(PSC)	Sp 111	Fundamentals of Speech (1st term)	3	5		MTWTh 2 pm; 41 SPH	McMurray
(PSC)	Sp 111	Fundamentals of Speech (1st term)	3	6		MW 6 & 7 pm; 39 SPH	Sugarman
(PSC)	Sp 111	Fundamentals of Speech (1st term)	3	7		TTh 6 & 7 pm; 39 SPH	McMurray
(PSC)	Sp 211	Interpretation	3	1		MTWTh 9 am; 37 SPH	Gibson
(PSC)	Sp 212	Voice and Diction	3	1		MTWTh 2 pm; 39 SPH	English
(PSC)	Sp 322	Argumentation, Discussion, and Persuasion (2nd term)	3	1		MTWTh 1 pm; 37 SPH	Padrow
(PSC)	Sp 370	Phonetics	3	1		MTWTh 2 pm; 37 SPH	Casteel
(PSC)	Sp 371	Speech Science	3	1		MTWTh 8 am; 37 SPH	English/Stone
(PSC)	Sp 414	Teaching Speech in the Secondary School	3	1		MTWTh 12 pm; 37 SPH	Gibson
(PSC)	Sp 426	Theory and Literature of Public Address (GRAD) (1st term)	3	1		MTWTh 11 am; 37 SPH	Sugarman
(UO)	Sp 481	Speech Pathology (G) (1st term)	3	1		MTWTh 11 am; 39 SPH	Lillywhite
(PSC)	Sp 481	Speech Pathology (GRAD) (1st term)	3	1		MTWTh 11 am; 39 SPH	Lillywhite
(PSC)	Sp 483	Speech Pathology (GRAD) (3rd term)	3	1		By arrangement; 90 SPH	English
(UO)	Sp 483	Speech Pathology (G) (3rd term)	3	1		By arrangement; 90 SPH	English
(PSC)	Sp 484	Clinical Speech Therapy (1st term)	2	1		By arrangement; 90 SPH	Stone
(UO)	Sp 484	Clinical Speech Therapy (G) (1st term)	2	1		By arrangement; 90 SPH	Stone
(PSC)	Sp 485	Clinical Speech Therapy (2nd term)	2	1		By arrangement; 90 SPH	English
(UO)	Sp 485	Clinical Speech Therapy (G) (2nd term)	2	1		By arrangement; 90 SPH	English
(UO)	Sp 486	Clinical Speech Therapy (G) (3rd term)	2	1		By arrangement; 90 SPH	Casteel
(PSC)	Sp 487	Audiology (1st term) (June 21 to July 16)	3	1		MTWTh 1 & 2 pm; 102 CCD*	Blakely
(UO)	Sp 487	Audiology (G) (1st term) (June 21 to July 16)	3	1		MTWTh 1 & 2 pm; 102 CCD*	Blakely
(UO)	Sp 488	Audiology (G) (2nd term)	3	1		MTWTh 8 am; 39 SPH	Young
(UO)	Sp 507	Seminar: Examination and Treatment of Voice Disorders	3	1		MTWThFS 8 to 12 pm; 41 SPH	Moore/Anderson
(UO)	Sp 507	Seminar: Examination and Treat- ment Procedures in Aphasia	6	1		MTWTh 8 to 12 pm; 41 SPH	Buck/Casteel
(PSC)	Sp 507	Seminar: Introduction to Graduate Study in Speech	3	1		MTWTh 10 am; 37 SPH	Gibson

THEATER ARTS

(PSC)	TA 353	Workshop Theater II	3	1		MW 6, 7, & 8 pm; 109 OM	Shafer
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* CCD—Crippled Children's Division, U of O Medical School, 745 S.W. Gaines Road.

CLASS SCHEDULE

<i>Inst.</i>	<i>Dept.</i> <i>and No.</i>	<i>Course Title</i>	<i>Cr. Sec.</i> <i>Hrs. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
(PSC)	TA 464	Development of Dramatic Art (1st term)	3 1	MW 4 & 5 pm 109 OM	A. Wilson
(PSC)	TA 507	Seminar: Acting-Directing, Classical Drama	3 1	MW 6 & 7 pm; Auditorium OM	A. Wilson Collins
(PSC)	TA 507	Seminar: Costuming the Classical Play	3 1	TTh 6 & 7 pm; 106 OM	Collins
(PSC)	TA 507	Seminar: Stage Design for Classical Drama	3 1	TTh 6 & 7 pm; 107 OM	Shafer

WRITING (See also Special Programs)

(PSC)	Wr 111	English Composition (1st term)	3 1	MTWTh 7 am; 338 SPH	Ferte
(PSC)	Wr 111	English Composition (1st term)	3 2	MTWTh 8 am; 338 SPH	Ferte
(PSC)	Wr 111	English Composition (1st term)	3 3	MTWTh 12 pm; 338 SPH	Seller
(PSC)	Wr 111	English Composition (1st term)	3 4	MW 6 & 7 pm; 338 SPH	Kelly
(PSC)	Wr 112	English Composition (2nd term)	3 1	MTWTh 11 am; 338 SPH	M. Clarke
(PSC)	Wr 112	English Composition (2nd term)	3 2	MTWTh 12 pm; 431 SPH	S. Johnson
(PSC)	Wr 112	English Composition (2nd term)	3 3	MW 6 & 7 pm; 352 SPH	Webb
(PSC)	Wr 113	English Composition (3rd term)	3 1	MTWTh 9 am; 338 SPH	Seller
(PSC)	Wr 113	English Composition (3rd term)	3 2	MTWTh 1 pm; 338 SPH	Lindner
(PSC)	Wr 113	English Composition (3rd term)	3 2	TTh 6 & 7 pm; 338 SPH	Lindner
(PSC)	Wr 211	Advanced Writing (1st term)	3 1	MTWTh 11 am; 43 SPH	Tuttle
(PSC)	Wr 312	Advanced Short Story Writing	3 1	MTWTh 2 pm; 492 SPH	Scharbach
(UO)	Wr 411	English Composition for Teachers (g)	3 1	MTWTh 8 am; 331 SPH	Boggs

Eleven-Week Term

(For Special Programs, see the course descriptions)

ANTHROPOLOGY (See also Special Programs)

(PSC)	*Anth 207, 208, 209	Introduction to Cultural Anthropology			
	Anth 207	Introduction to Cultural Anthropology (June 21 to July 13)	3 11	MTWTh 10 & 11 am, F 10 am; 228 SH	Piddocke
	Anth 208	Introduction to Cultural Anthropology (July 15 to August 6)	3 11	MTWTh 10 & 11 am, F 10 am; 228 SH	Piddocke
	Anth 209	Introduction to Cultural Anthropology (August 9 to September 3)	3 11	MTWTh 10 & 11 am, F 10 am; 228 SH	Piddocke

BIOLOGY

(PSC)	*Bi 204, 205, 206	General Zoology			
	Bi 204	General Zoology (June 21 to July 13)	4 11	MTWTh 9 am, 12:30 to 2 pm; 309 OM	Macnab
	Lab A			MTWTh 10 & 11 am, 2 & 3 pm; 309 OM	Foster
	Bi 205	General Zoology (July 14 to August 5)	4 11	MTWTh 9 am, 12:30 to 2 pm; 309 OM	Macnab
	Lab A			MTWTh 10 & 11 am, 2 & 3 pm; 309 OM	Foster
	Bi 206	General Zoology (August 9 to September 2)	4 11	MTWTh 9 am, 12:30 to 2 pm; 309 OM	Macnab
	Lab A			MTWTh 10 & 11 am, 2 & 3 pm; 309 OM	Foster
(PSC)	*Bi 251, 252, 253	Principles of Biology			
	Bi 251	Principles of Biology (June 21 to July 13)	4 11	MTWTh 9 am, 12:30 to	

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ELEVEN WEEK TERM

Inst.	Dept. and No. Course Title	Cr. Sec.	Hrs. No.	Time & Place	Instructor
	Lab A _____			2 pm; 313 OM _____	Forbes
	Bi 252 Principles of Biology (July 14 to August 5) _____	4	11	MTWTh 10 & 11 am, 2 & 3 pm; 313 OM _____	***
	Lab A _____			2 pm; 313 OM _____	Forbes
	Bi 253 Principles of Biology (August 9 to September 2) _____	4	11	MTWTh 9 am, 12:30 to 2 pm; 313 OM _____	Forbes
	Lab A _____			MTWTh 10 & 11 am, 2 & 3 pm; 313 OM _____	***
(PSC)	Bi 326 Comparative Vertebrate Embryology _____	4	11	TTh 9 am; 373 OM _____	Malcolm
	Lab A _____			TTh 10, 11, & 12 pm; 373 OM _____	Malcolm
(PSC)	Bi 353 General Entomology _____	4	11	MW 9 am; 812 OM _____	Malcolm
	Lab A _____			MW 10, 11, & 12 pm; 812 OM _____	Malcolm

BUSINESS ADMINISTRATION (See also Special Programs)

(PSC)	*BA 211, 212, 213 Principles of Accounting				
	BA 211 Principles of Accounting (June 21 to July 16) _____	3	11	MTWTh 8 & 9 am, F 8 am; 345 SH _____	Savage
	BA 212 Principles of Accounting (July 19 to August 6) _____	3	11	MTWTh 8 & 9 am, F 8 am; 345 SH _____	Savage
	BA 213 Principles of Accounting (August 9 to September 3) _____	3	11	MTWTh 8 & 9 am, F 8 am; 345 SH _____	Savage
(UO)	FBE 514 Financial Environment (p) _____	3	11	Th 6:45 to 9:30 pm; 149 SH _____	Durden
(UO)	FBE 522 Problems in Business Finance _____	3	11	M 6:45 to 9:30 pm; 221 SH _____	Anderson

CHEMISTRY

(PSC)	*Ch 104, 105, 106 General Chemistry				
	Ch 104 General Chemistry (June 21 to July 18) _____	4	11	MTThF 11 am, 1 pm; 301 OM Mickelsen MTThF 8 to 10:30 am; 304 OM Silverman	
	Lab A _____			MTThF 2 to 4:30 pm; 304 OM _____	***
	Lab B _____				
	Ch 105 General Chemistry (July 15 to August 6) _____	4	11	MTThF 11 am, 1 pm; 301 OM Mickelsen MTThF 8 to 10:30 am; 304 OM Levinson	
	Lab A _____			MTThF 2 to 4:30 pm; 304 OM Silverman	
	Lab B _____				
	Ch 106 General Chemistry (August 9 to September 3) _____	4	11	MTThF 11 am, 1 pm; 301 OM Silverman MTThF 8 to 10:30 am; 304 OM Mickelsen	
	Lab A _____			MTThF 2 to 4:30 pm; 304 OM _____	Booster
	Lab B _____				

ENGLISH

(PSC)	*Eng 101, 102, 103 Survey of English Literature				
	Eng 101 Survey of English Literature (June 21 to July 13) _____	3	11	MTWTh 1 & 2 pm, F 1 pm; 343 SPH	Yorks
	Eng 102 Survey of English Literature (July 14 to August 5) _____	3	11	MTWTh 1 & 2 pm, F 1 pm; 343 SPH	Yorks
	Eng 103 Survey of English Literature (August 9 to September 3) _____	3	11	MTWTh 1 & 2 pm, F 1 pm; 343 SPH	Yorks

FOREIGN LANGUAGES (See also Special Programs)

(PSC)	*GL 50, 51, 52 First-Year German				
	GL 50 First-Year German (June 21 to July 13) _____	4	11	MTWTh, 9, 10, & 11 am; 397 SPH	MacLean

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CLASS SCHEDULE

<i>Inst.</i>	<i>Dept. and No. Course Title</i>	<i>Cr. Hrs.</i>	<i>Sec. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
	GL 51 First-Year German (July 14 to August 5).....	4	11	MTWTh, 9, 10, & 11 am; 397 SPH	MacLean
	GL 52 First-Year German (August 9 to September 3).....	4	11	MTWTh, 9, 10, & 11 am; 397 SPH	MacLean
(PSC)	*GL 101, 102, 103 Second-Year German				
	GL 101 Second-Year German June 21 to July 13).....	4	11	MTWTh, 12, 1, & 2 pm; 43 SPH	Nussbaum
	GL 102 Second-Year German (July 14 to August 5).....	4	11	MTWTh, 12, 1, & 2 pm; 43 SPH	Nussbaum
	GL 103 Second-Year German (August 9 to September 3).....	4	11	MTWTh, 12, 1, & 2 pm; 43 SPH	McCall
(PSC)	*RL 50, 51, 52 First-Year French				
	RL 50 First-Year French (June 21 to July 13).....	4	11	MTWTh 12, 1, & 2 pm; 433 SPH	Suvajian
	RL 51 First-Year French (July 14 to August 5).....	4	11	MTWTh 12, 1, & 2 pm; 433 SPH	Suvajian
	RL 52 First-Year French (August 9 to September 3).....	4	11	MTWTh 12, 1, & 2 pm; 433 SPH	Suvajian
(PSC)	*RL 60, 61, 62 First-Year Spanish				
	RL 60 First-Year Spanish (June 21 to July 13).....	4	11	MTWTh 12, 1, & 2 pm; 397 SPH	Grinan
	RL 61 First-Year Spanish (July 14 to August 5).....	4	11	MTWTh 12, 1, & 2 pm; 397 SPH	Grinan
	RL 62 First-Year Spanish (August 9 to September 3).....	4	11	MTWTh 12, 1, & 2 pm; 397 SPH	Grinan
(PSC)	*RL 70, 71, 72 First-Year Italian				
	RL 70 First-Year Italian (June 21 to July 13).....	4	11	MTWTh 2, 3, & 4 pm; 401 SH	Ricciardelli
	RL 71 First-Year Italian (July 14 to August 5).....	4	11	MTWTh 2, 3, & 4 pm; 401 SH	Ricciardelli
	RL 72 First-Year Italian (August 9 to September 3).....	4	11	MTWTh 2, 3, & 4 pm; 401 SH	Ricciardelli

GENERAL SCIENCE

(PSC)	*GS 101, 102, 103 General Biology				
	GS 101 General Biology (June 21 to July 13).....	3	11	MWTh 10 & 11 am; 433 SPH	Boddy
	Lab A			MWTh 8 & 9 am; 310 OM	Klein-Lee
	Lab B			MWTh 8 & 9 am; 317 OM	Fairbanks
	Lab C			MWTh 12:30 to 2:30 pm; 310 OM	Klein-Lee
	Lab D			MWTh 12:30 to 2:30 pm; 317 OM	Fairbanks
	GS 102 General Biology (July 14 to August 5).....	3	11	MWTh 10 & 11 am; 433 SPH	Boddy
	Lab A			MWTh 8 & 9 am; 310 OM	Klein-Lee
	Lab B			MWTh 8 & 9 am; 317 OM	Fairbanks
	Lab C			MWTh 12:30 to 2:30 pm; 310 OM	Klein-Lee
	Lab D			MWTh 12:30 to 2:30 pm; 317 OM	Fairbanks
	GS 103 General Biology (August 9 to September 3).....	3	11	MWTh 10 & 11 am; 433 SPH	Boddy
	Lab A			MWTh 8 & 9 am; 310 OM	Klein-Lee
	Lab B			MWTh 8 & 9 am; 317 OM	Fairbanks
	Lab C			MWTh 12:30 to 2:30 pm; 310 OM	Klein-Lee
	Lab D			MWTh 12:30 to 2:30 pm; 317 OM	Fairbanks

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ELEVEN WEEK TERM

<i>Inst. and No.</i>	<i>Dept. Course Title</i>	<i>Cr. Hrs.</i>	<i>Sec. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
(PSC) *CS 104, 105, 106	Physical Science				
	CS 104 Physical Science (June 21 to July 13) _____	3	11	MWTh 10 & 11 am; 71 SH _____	Lange
	Lab A _____			MWTh 8 & 9 am; 212 OM _____	Hall
	Lab B _____			MWTh 12:30 to 2:30 pm; 212 OM _____	Hall
	CS 105 Physical Science (July 14 to August 5) _____	3	11	MWTh 10 & 11 am; 71 SH _____	Lange
	Lab A _____			MWTh 8 & 9 am; 212 OM _____	Hall
	Lab B _____			MWTh 12:30 to 2:30 pm; 212 OM _____	Hall
	CS 106 Physical Science (August 9 to September 3) _____	3	11	MWTh 10 & 11 am; 71 SH _____	Lange
	Lab A _____			MWTh 8 & 9 am; 212 OM _____	Hall
	Lab B _____			MWTh 12:30 to 2:30 pm; 212 OM _____	Hall

GEOGRAPHY (See also Special Programs)

(PSC) *Geog 105, 106, 107	Introductory Geography				
	Geog 105 Introductory Geography (June 22 to July 16) _____	3	11	MTWTh 10 & 11 am, F 10 am; 383 SH _____	Rockie
	Geog 106 Introductory Geography (July 17 to August 10) _____	3	11	MTWTh 10 & 11 am, F 10 am; 383 SH _____	Rockie
	Geog 107 Introductory Geography (August 11 to September 3) _____	3	11	MTWTh 10 & 11 am, F 10 am; 383 SH _____	Rockie

HISTORY (See also Special Programs)

(PSC) *Hst 101, 102, 103	History of Western Civilization				
	Hst 101 History of Western Civilization (June 22 to July 16) _____	3	11	MTWTh 10 & 11 am, F 10 am; 150 SH _____	C. K. Smith
	Hst 102 History of Western Civilization (July 17 to August 10) _____	3	11	MTWTh 10 & 11 am, F 10 am; 150 SH _____	C. K. Smith
	Hst 103 History of Western Civilization (August 11 to September 3) _____	3	11	MTWTh 10 & 11 am, F 10 am; 150 SH _____	C. K. Smith
(PSC) *Hst 201, 202, 203	History of the United States				
	Hst 201 History of the United States (June 22 to July 16) _____	3	11	MTWTh 10 & 11 am, F 10 am; 101 SH _____	Gilmore
	Hst 202 History of the United States (July 17 to August 10) _____	3	11	MTWTh 10 & 11 am, F 10 am; 101 SH _____	Gilmore
	Hst 203 History of the United States (August 11 to September 3) _____	3	11	MTWTh 10 & 11 am, F 10 am; 101 SH _____	Gilmore

PHYSICS

(PSC) *Ph 201, 202, 203	General Physics				
	Ph 201 General Physics (June 21 to July 13) _____	4	11	MTWTh 8 & 9 am, F 8 am; 53 SH _____	Sanford
	Lab A _____			MW 10, 11, & 12 pm; F 9, 10, & 11 am; 3 OM _____	Walton
	Lab B _____			W 1, 2, & 3 pm, TTh 10, 11, & 12 pm; 3 OM _____	Walton
	Ph 202 General Physics (July 14 to August 5) _____	4	11	MTWTh 8 & 9 am, F 8 am; 53 SH _____	Sanford
	Lab A _____			MW 10, 11, & 12 pm; F 9, 10, & 11 am; 3 OM _____	Walton
	Lab B _____			W 1, 2, & 3 pm, TTh 10, 11, & 12 pm; 3 OM _____	Walton

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CLASS SCHEDULE

<i>Instr.</i>	<i>Dept. and No. Course Title</i>	<i>Cr. Hrs.</i>	<i>Sec. No.</i>	<i>Time & Place</i>	<i>Instructor</i>
	Ph 203 General Physics (August 9 to September 3)	4	11	MTWTh 8 & 9 am, F 8 am; 53 SH	Sanford
	Lab A			MW 10, 11, & 12 pm; F 9, 10, & 11 am; 3 OM	Walton
	Lab B			W 1, 2, & 3 pm, TTh 10, 11, & 12 pm; 3 OM	Walton
(PSC)	*Ph 407 Advanced Physics Ph 407 Advanced Physics (June 21 to July 13)	3-4	11	MTWTh 8 & 9 am, F 8 am; 53 SH	Sanford
	Lab A			MW 10, 11, & 12 pm, F, 9 10, & 11 am; 3 OM	Walton
	Lab B			TTh 10, 11, & 12 pm, W 1, 2, & 3 pm; 3 OM	Walton
	Ph 407 Advanced Physics (July 14 to August 5)	3-4	12	MTWTh 8 & 9 am, F 8 am; 53 SH	Sanford
	Lab A			MW 10, 11, & 12 pm, F, 9 10, & 11 am; 3 OM	Walton
	Lab B			TTh 10, 11, & 12 pm, W 1, 2, & 3 pm; 3 OM	Walton
	Ph 407 Advanced Physics (August 9 to September 3)	3-4	13	MTWTh 8 & 9 am, F 8 am; 53 SH	Sanford
	Lab A			MW 10, 11, & 12 pm, F, 9 10, & 11 am; 3 OM	Walton
	Lab B			TTh 10, 11, & 12 pm, W 1, 2, & 3 pm; 3 OM	Walton

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PS 322. American Foreign Policy. 3 hours. (PSC)

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

PS 407. Seminar: Problems of Political Science. 3 hours. (PSC)**PS 407. Seminar: Supreme Court and Fundamental Freedoms.** 3 hours. (PSC)**PS 407. Seminar: Problems of State Governments.** 3 hours. (PSC)**PS 438. Communist Governments.** 3 hours. (PSC)

A study of political institutions and ideological principles in the Communist world, with special emphasis on the USSR and The People's Republic of China. Examination of Soviet policies, foreign and domestic.

PS 482. The Legislature in American Government. 3 hours. (PSC)

A study of the structure, organization, powers, and operations of the national and state legislative bodies. Emphasis is placed upon the legislative process and the effectiveness of representative devices. Primary attention is devoted to Congress.

PS 507. Seminar: Problems of Political Science. 3 hours. (PSC)**PS 507. Seminar: Problems of State Governments.** 3 hours. (PSC)**PS 507. Seminar: Supreme Court and Fundamental Freedoms.** 3 hours. (PSC)

Portland Continuation Center Program

PS 427. Government and Politics of the Soviet Union (G) (1st term). 3 hours. (UO)

Governmental institutions and political processes in the Soviet Union.

PS 454. Competing Ideologies in the World Today. (G) 3 hours. (UO)**PS 455. Area Tensions in the World Today.** (G) 3 hours. (UO)**SSc 493. International Organizations.** (g) 3 hours. (OCE)

Arrangements for national security; balance of power, collective security, United Nations. Causes of war and prerequisites for peace. Designed for those preparing for secondary teaching to better understand the relations between nations and the efforts toward peace.

Psychology

Portland State College Program

Psy 201, 202, 203. General Psychology. 3 hours each term. (PSC)

Basic principles and theories of behavior. Discussion of individual differences, intelligence, aptitude, methods of psychological measurement and testing, drives and motives, emotions and reactions to stress, perception, learning, thinking, reasoning, personality; the response mechanism, social communication processes, attitudes and social processes, frontiers of psychology. Sophomore standing is recommended.

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

Development of the child as an individual and as a member of social groups. Included is a comparative study of different home and school environments as they influence the psychological growth of the child. Field projects supplement the class work. Primarily for majors in education. Prerequisite: Psy 201, 202.

Psy 318. Applied Psychology. 3 hours. (PSC)

Application of psychological facts and principles to human problems in business, industry, law enforcement, crime detection, advertising, and related fields. Prerequisite: Psy 201, 202, 203.

Psy 335. Counseling and Testing. 3 hours. (PSC)

A survey of counseling and interviewing techniques, use of psychological tests in support of counseling procedures. Prerequisites: Psy 201, 202, 203.

Psy 345. Psychology of Motivation. 3 hours. (PSC)

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.

Psy 346. Psychology of Learning. 3 hours. (PSC)

Conditions, principles, and theories of learning. Assessment of experimental methods and results in relation to current theory. Prerequisite: Psy 201, 202, 203.

Psy 460, 461. Developmental Psychology. (GRAD) 3 hours each term. (PSC)

I. Infancy and Childhood; II. Adolescence and Maturity. Study of 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.

Psy 473. Individual Differences. (2nd term) 3 hours. (PSC)

Basic principles for quantitative assessment of human characteristics; research findings concerning intelligence, aptitudes, interests, and achievement; group differences related to sex, age, social class, race, nationality; use and interpretation of individual and group tests. Prerequisite: Psy 201, 202, 203; Mth 425, 426, 427 or equivalent.

Portland Continuation Center Program

Psy 413x. Systems and Theories in Modern Psychology (g). 3 hours. (OSU)

Review of the evolution and structure of psychological theories and systems as related to contemporary general psychology and to specific areas of research and theory construction: individual differences, motivation, perception, learning, and personality development. Prerequisite: Psy 202 and senior or graduate standing.

Psy 421. Principles and Methods of Psychological Assessment. (g) (1st term) 3 hours. (UO)

Application of psychological methods to the study of the individual; theoretical and statistical rationale of test construction and interpretation; problems involved in the prediction of human behavior; survey of psychological assessment techniques.

Psy 423. Psychological Assessment: Group Testing (g). 3 hours. (OSU)

Group tests of intelligence, special aptitudes, proficiency, interests, values, and personality, used in personal and vocational counseling or in personnel selection; methods of developing and validating specific tests; underlying theories and interpretation; use in counseling. Prerequisite: Psy 421.

Psy 435x. Personality Theories (g). 3 hours. (OSU)

A study of various theories of personality and an attempt to understand them by spelling out specific applications. Reading of original works. Freud, Adler, Lewin, Allport, social psychological, stimulus-response and various other theories. Prerequisite: Psy 413x.

Psy 450. Abnormal Psychology. (g) 3 hours. (UO)

Various forms of unusual behavior, including anxiety states, hysteria, hypnotic phenomena, and psychoses. Normal motives and adjustments considered in their exaggerations in the so-called neurotic person.

Psy 524. Individual Intelligence Testing. 4 hours. (UO)

Supervised practice in the administration, scoring, and interpretation of the Wechsler Intelligence Scale for Children and the Wechsler Adult Intelligence scale. Prerequisite: Ed 424 or Psy 421.

Psy 525. Individual Intelligence Testing. 2 hours. (UO)

Supervised practice in the administration, scoring, and interpretation of the Stanford-Binet Intelligence Scale. Prerequisite: Ed 424 or Psy 421.

Religion

Portland Continuation Center Program

R 312. The Old Testament and Its Historical Background. 3 hours. (OSU)

Times and conditions which produced Old Testament; religion of Israel with critical survey of sources.

R 407. Seminar: Religion in Contemporary Society. 3 hours. (OSU)

Phi 460. Philosophy of Religion. (g) 3 hours. (OSU)

Religious concepts of reality and human nature; idea of God; problem of faith and reason; religious language and symbolism; religious concepts of man and history.

Secretarial Science

Portland State College Program

BEd 111. Stenography. (1st term) 3 hours. (PSC)

Theory of shorthand; practical applications in sentence dictation. BEd 121, 122, 123, must be taken concurrently unless the student has had the equivalent. Students with one year of shorthand are not permitted to take BEd 111 for credit.

BEd 121. Typing. (1st term) 2 hours. (PSC)

Theory and practice of touch typing; rhythmical drill, 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 BEd 121 for credit.

BEd 122. Typing. (2nd term) 2 hours. (PSC)

See above.

BEd 215. Business Machines. 3 hours. (PSC)

Use and operation of various office equipment and machines.

BEd 311. Office Procedure. (1st term) 3 hours. (PSC)

The most efficient stenographic methods and office practice; filing; advanced dictation; transcripts; reports; modern office appliances. Prerequisite: BEd 213 or equivalent.

BEd 507. Seminar. 3 hours. (PSC)

BEd 507. Seminar: Automation and the Business Teacher. 3 hours. (PSC)
(See Special Programs Section.)

Portland Continuation Center Program

BEd 536. Problems and Research Techniques in Business Education. 3 hours. (OSU)

Philosophy and trends in business education; methods and available research studies. Prerequisite: Ed 408 or teaching experience in business subjects.

BEd 537. Measurements in Business Education. 3 hours. (OSU)

Objectives and principles; testing in specific areas; construction of sample tests; available testing materials; use of tests in diagnostic and remedial teaching. Prerequisite: Ed 408; BEd 536. Students who have not had Ed 408 must have had teaching experience in business subjects.

OA 508. Workshop: Typewriting. 3 hours. (OSU)

(See Special Programs Section.)

Science

Portland State College Program

Sci 507. Seminar: Ornithology. 3 hours. (PSC)

Sci 507. Seminar: Modern Concepts of Meteorology. 3 hours. (PSC)

Sci 507. Modern Topics in Astronomy. 3 hours. (PSC)

Descriptive treatment of modern concepts of the solar system, star types and groupings, astronomical instruments and coordinate systems.

Sci 507. Seminar: PSSC Physics. 3 hours. (PSC)

Science Education

Portland Continuation Center Program

SEd 407. Seminar: Radiation and Health. 3 hours. (OSU)

(See Special Programs Section.)

SEd 507. Seminar: Radiation and Health. 3 hours. (OSU)

(See Special Programs Section.)

SEd 507. Seminar: Smoking and Health. 2 hours. (OSU)

(See Special Programs Section.)

Social Science

Portland State College Program

SSc 501. Research. Hours to be arranged. (PSC)

SSc 503. Thesis. Hours to be arranged. (PSC)

SSc 505. Reading and Conference. Hours to be arranged. (PSC)

SSc 507. Seminar. Hours to be arranged. (PSC)

Portland Continuation Center Program

SSc 493. **International Organizations.** (g) 3 hours. (OCE)

Arrangements for national security; balance of power, collective security, United Nations. Causes of war and prerequisites for peace. Designed for those preparing for secondary teaching to better understand the relations between nations and the efforts towards peace.

Sociology

Portland State College Program

Soc 204, 205, 206. **General Sociology.** 3 hours each term. (PSC)

The basic findings of sociology concerning the individual, culture, group life, social institutions, and factors of social change. Soc 204, 205 are prerequisites to Soc 206, or consent of instructor. Open to freshmen.

Soc 212. **Introduction to Sociology.** 3 hours. (PSC)

An abridgement of Soc 204, 205, 206. Not open to students who have taken Soc 204, 205, 206. Designed for engineering and business administration students.

Soc 335. **Social Psychology (2nd term).** 3 hours. (PSC)

Analysis of the psychological and sociological processes in personality formation and in various forms of group behavior. Particular attention to origin, function, ideology, membership and leadership. Prerequisite: Soc 204, 205 or Psy 201, 202.

Soc 338. **Marriage and the Family.** 3 hours. (PSC)

A sociological analysis of the structure and function of the institutions of marriage and the family in terms of their history and change, their internal processes, and their relationship to external systems such as their economy and polity. Prerequisite: Soc 204, 205, or consent of instructor.

Soc 370. **Sociology of Deviancy.** 3 hours. (PSC)

Introduction and analysis of deviant behavior. Delineation of the sociological and social psychological factors which give rise to deviant roles. Prerequisite: Soc 204, 205 or Anth 207, 208, 209, or consent of instructor.

Soc 381. **Introduction to Social Research (1st term).** 3 hours. (PSC)

The development of social research; the nature of scientific inquiry and the basic methods and techniques; examination of representative sociological studies from the standpoint of methodology. Prerequisite: Soc 204, 205 or Anth 207, 208, 209, or consent of instructor.

Soc 407. **Seminar: Inter-Group Relations.** 3 hours. (PSC)

(See Special Programs Section.)

Soc 407. **Seminar: Social Welfare Resources and Organizations.** (G) 3 hours. (PSC)

Soc 416. **Criminology and Delinquency (1st term).** 3 hours. (PSC)

The nature and extent of crime and delinquency as forms of deviant social behavior; historic and conventional theories of crime and delinquency considered; physiological, mental, economic and social variables as possible causes of crime and delinquency investigated; attention also given to methods of prevention and correction. Prerequisite: Soc 204, 205.

Soc 417. **Criminology and Delinquency (GRAD) (2nd term).** 3 hours. (PSC)

The nature and extent of crime and delinquency as forms of deviant social be-

havior; historic and conventional theories of crime and delinquency considered; physiological, mental, economic and social variables as possible causes of crime and delinquency investigated; attention also given to methods of prevention and correction. Prerequisite: Soc 204, 205.

Soc 421. Social Change. 3 hours. (PSC)

Deals with the technological and ideological factors which govern the evolution and transformation of society with special emphasis on the operation of such factors since 1800. Prerequisite: Soc 204, 205, or consent of instructor.

Soc 424. Small Groups (GRAD). 3 hours. (PSC)

Investigates small group behavior from the standpoint of interactional processes and structural-functional factors. Prerequisite: Soc 204, 205, or consent of instructor.

Soc 439. Mass Communication and Persuasion (GRAD). 3 hours. (PSC)

Analysis of the conditions that give rise to public opinion, and the consequences of public opinion are presented. Attention given to mass media, advertising, propaganda, and their relationships to the social structure. Prerequisite: Soc 204, 205, or consent of instructor.

Portland Continuation Center Program

Soc 301. American Society. 3 hours. (UO)

An analysis of American society in terms of its significant structural traits and their functions; major changes in American Society and selected contemporary problems examined in their relation to institutional structures. Not open to students who have completed Soc 204, 205. Prerequisite: Soc 300.

Soc 407. Seminar: Social Welfare Resources and Organizations. 3 hours. (UO)

Soc 440, 441. Criminology and Delinquency. (g) 3 hours each term. (UO)

The nature and extent of delinquency and crime as forms of deviant social behavior; contributing factors; current prevention and treatment programs. Prerequisite: Soc 204, 205, 206 or Soc 300.

Speech

Portland State College Program

Sp 111. Fundamentals of Speech (1st term). 3 hours. (PSC)

Orientation to speech, speech behaviors and human relations, basic principles and procedures of speech composition.

Sp 211. Interpretation. 3 hours. (PSC)

The oral interpretation of literature including prose and poetry. Aimed at a study of the meaning in selected pieces of literature as well as at an effective communication of meaning to others.

Sp 212. Voice and Diction. 3 hours. (PSC)

Study and practice of the principles of voice production and articulation of speech sounds, with attention to elementary speech physiology and phonetics. Intended for students who desire to develop more effective speech and for meeting the special needs of teachers, radio and television speakers, public speakers, and others who require special competence in speaking.

Sp 322. Argumentation, Discussion, and Persuasion (2nd term). 3 hours. (PSC)

Theory of discussion as it applies to improved interpersonal relations in com-

munity affairs, in business and in teaching and other professions. Prerequisite: Sp 111 and Sp 112 or consent of instructor.

Sp 370. Phonetics. 3 hours. (PSC)

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

Sp 371. Speech Science. 3 hours. (PSC)

A study of anatomy, psychology and physics of speech.

Sp 414. Teaching Speech in the Secondary School. 3 hours. (PSC)

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.

Sp 426. Theory and Literature of Public Address (GRAD) (1st term). 3 hours. (PSC)

An historical survey of the theory and practice of public address designed to reveal the role of public address in human affairs. Classical rhetoricians and orators. Prerequisite: Sp 111 or consent of instructor.

Sp 481, 483. Speech Pathology (GRAD) (1st and 3rd terms). 3 hours each term. (PSC)

Symptoms, causes, and treatment of speech abnormalities. Functional articulatory defects, delayed speech, emotional speech disorders. Public school speech correction, specific techniques in the diagnosis and treatment of major speech problems. Prerequisites: Sp 370 and 371 or consent of instructor.

Sp 484, 485. Clinical Speech Therapy. 2 hours each term. (PSC)

Supervised clinical work with speech-defective children and adults enrolled for counseling, testing, and treatment in the Speech and Hearing Clinic; group discussion of case histories and techniques. Prerequisites: Sp 481 and 482 or consent of instructor.

Sp 487. Audiology. 3 hours. (PSC)

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.

Sp 507. Seminar: High School Forensics (for teachers). 3 hours. (PSC)

(See Special Programs Section.)

Sp 507. Seminar: Introduction to Graduate Study in Speech. 3 hours. (PSC)

Portland Continuation Center Program

Sp 33. High School Forensics Workshop (for students). (non-credit) (DCE)
(See Special Programs Section.)

Sp 481, 483. Speech Pathology (G) (1st and 3rd terms). 3 hours each term. (UO)

Symptoms, causes, and treatment of speech abnormalities. Functional articulatory defects, delayed speech, emotional speech disorders. Public school speech correction, specific techniques in the diagnosis and treatment of major speech problems. Prerequisite: Sp 370, Sp 371 or consent of instructor.

Sp 484, 485, 486. Clinical Speech Therapy (G). 2 hours each term. (UO)

Supervised clinical work with speech-defective children and adults, enrolled for counseling, testing, and treatment in the Speech and Hearing Clinic; group dis-

ussion of case histories and techniques. Prerequisite: Sp 481, 482 or consent of instructor.

Sp 487, 488. **Audiology.** (G) (1st and 2nd terms). 3 hours each term. (UO)

The auditory function, hearing impairment, and the speech education or reeducation of persons with hearing loss. Prerequisite: Sp 370, Sp 371 or consent of instructor.

Sp 487: Anatomy of the ear, psychophysics of hearing, physical attributes of speech sounds, types and causes of hearing loss, speech involvement of deafness.

Sp 488: Auditory tests and their clinical interpretation, selection and use of hearing aids.

Sp 507. **Seminar: Examination and Treatment of Voice Disorders.** 3 hours. (UO)

Primary consideration is to deviations of voice found in school-age children and adults. Attention will be given to detection, differential diagnosis and referral of voice problems. The course will also include review of recent literature and research in voice disorders; medical and psychiatric implications; demonstrations of typical voice problems; and specific methods of treatment. Prerequisite: Consent of instructor.

Sp 507. **Seminar: Examination and Treatment Procedures in Aphasia.** 6 hours. (UO)

Designed for persons who have had considerable training and clinical experience in speech correction and remedial education. Consideration will be given to etiology, medical diagnosis and communication evaluations, retraining dysphasic communication and family counseling. Prerequisite: Consent of instructor.

Theater Arts

Portland State College Program

TA 353. **Workshop Theater II.** 3 hours. (PSC)

Selected problems in rehearsal and performance, or the mounting of productions are offered for study and practice. Prerequisite: Consent of instructor.

TA 464. **Development of Dramatic Art.** (1st term—the Classical Period). 3 hours. (PSC)

A formal account of drama in its major periods together with pertinent factors on theaters and stagings. The course is chronological in its presentation but each term may be taken separately.

TA 507. **Seminar: Acting-Directing, Classical Drama.** 3 hours. (PSC)

TA 507. **Seminar: Stage Design for Classical Drama.** 3 hours. (PSC)

TA 507. **Seminar: Costuming the Classical Play.** 3 hours. (PSC)

Writing

Portland State College Program

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

The principles and forms of composition, including the library research paper; effective expression of the student's ideas through impromptu and prepared essays on topics of some significance, with special attention to organization. Mastery of the basic mechanics of English expression is presupposed. Wr 111 is a prerequisite

for Wr 112, and Wr 112 is a prerequisite for Wr 113. These 9 hours are not acceptable toward fulfillment of Humanities requirements.

Wr 211. Advanced Writing. (1st term) 3 hours. (PSC)

Advanced composition, particularly the expository forms and styles. Prerequisite: Wr 111, 112, 113.

Wr 312. Advanced Short Story Writing. 3 hours. (PSC)

Further instruction in short story writing. Criticism and guidance of original narratives. Prerequisites: Wr 213 or consent of instructor.

Portland Continuation Center Program

Wr 13. Fiction Workshop. (non-credit) (DCE)

(See Special Programs Section.)

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

For students planning 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.

Special Programs

WORKSHOPS, SEMINARS, SPECIAL PROGRAMS often meet on a schedule all their own, and may require special fees. Read the information carefully.

Portland State College and Portland Continuation Center do not discriminate on account of sex, race, creed, color, or racial origin of an applicant.

Summer term special programs are jointly sponsored by Portland State College and Portland Continuation Center. Additional information may be obtained by following the directions included with many of the program descriptions, or by consulting the Office of Special Programs, Portland Summer Term (226-6601, extension 1130).

Special Programs Within the Eight-Week Term

AA 401. Special Studies: Children's Art. 3 hours. (June 25-August 13) (PSC)

Opportunities for a limited number of students to plan, present and evaluate art experiences with school-age children. A wide variety of materials will be utilized during the eight sessions. Seminar-type discussion, library work and individual conferences will be part of the program. The workshop is designed to suit the needs of elementary education majors who are taking art as an area of concentration. Other qualified students may be admitted. Prerequisites are (1) AA 311, 312, 313, or the equivalent; and (2) six credit hours of studio classes in painting, drawing and/or ceramics. Children, grades 4 through 6, will be in attendance 10-12 noon each Friday. The class will meet from 8:00 a.m. to 1:00 p.m. on Fridays. Application for the admission of children should be made to Dr. James Lill, Director of Summer Term, Portland State College. Children pay a fee of \$10. Colescott. Fridays only. 8:00-1:00. Room 235 SPH.

AA 501. Special Studies: Children's Art. 3 hours. (June 25-August 13) (PSC)

(See AA 401, with same title, above.)

BEd 507. Seminar: Automation and the Business Teacher. 3 hours (June 21-July 2) (PSC)

Course is designed for Business Education teachers who desire more knowledge of automation and data processing teaching techniques. Workshop provides a knowledge of data processing systems, programming, computers. Equipment demonstrations, teaching materials, and outstanding lecturers. Session is under the direction of Dr. E. Dana Gibson, Professor of Office Management at San Diego State College. Gibson. MTWThF, 1:00 to 5:00, Division of Continuing Education Auditorium.

Ed 507. Seminar: Current Practices, Problems and Proposals in Secondary Education. 3 hours. (August 2-12) (PSC)

Opportunity for secondary school administrators to study, discuss, and enjoy com-

ments from authorities on topics and proposals that will affect secondary education during the coming decade. Among areas to be explored are the following: the impact of community colleges on the secondary school curriculum, automation and the lessening need for youthful labor, the increasing obligation for the school to provide ethical, moral and social instruction, patterns in secondary education abroad, the role of the classroom teacher in the determination of policy, and economic and social pressures on youth. Hummel. MTWTh, 9:00-3:00, Room 338 CC.

Ed 507. Seminar: Teaching Slow Learners (Elementary Grades). 3 hours. (June 28-July 16) (PSC)

A study of the child who is having difficulty with the academic subjects. Preparation of suitable approaches and materials, planning the school day to provide for short attention spans, planning for meaningful and interesting classroom experiences that will develop positive attitudes toward the school situation, a review of available instructional materials. Schaper. MTWThF, 9:00-3:00, Curriculum Laboratory, Administration Building, Portland Public Schools, 631 N.E. Clackamas Street.

Ed 507. Seminar: Teaching Slow Learners (Grades 9-12) 3 hours. (August 9-27) (PSC)

A study of the student who is having difficulty with the academic high school subjects. Emphasis will be placed on determining what kinds of things the student can do, in what areas he needs particular help in order to assist him toward greater success in his high school experience. Half the time will be spent in preparing materials, making plans for student learning experiences, reviewing and evaluating instructional materials, and in determining how the learning experiences can assist the students toward greater success. Schaper. MTWThF, 9:00-3:00, Curriculum Laboratory, Portland Public Schools Administration Building, 631 N.E. Clackamas Street.

Ed 507. Seminar: Comparative Analysis of Adolescent Behavior in America and in Europe. 3 hours. (July 19-August 13) (OSU)

This seminar is the second half of an Adolescent Institute. (See first part immediately below.) This part of the Institute will consist of demonstrations and illustrations of methods of working with adolescents. Students will have opportunity to observe teaching demonstrations that will involve high school and college youth. Open only to a limited few who have previously taken the first portion of this Institute (See Ed 508 Workshop, same title). Schulz. MTWThF, 1:00-4:00, Room 271 SH.

Ed 508. Workshop: Comparative Analysis of Adolescent Behavior in America and in Europe. 3 hours. (June 21-July 17) (OSU)

This workshop is the first half of an Adolescent Institute being directed by Dr. John Schulz who spent the past year studying teenage behavior in Europe and the United States. This portion of the Institute will emphasize adolescent development patterns with special attention to the cultural forces affecting attitudes and behavior, comparing European cultural patterns with those of America. Major areas of emphasis to be discussed are: needs of adolescents; characteristics of youth; common behavior patterns among adolescents; adult-structured patterns for youth; current problems affecting adolescents; effective ways of working with adolescents. Students may enroll for either or both parts of this Institute. (See Ed 507: Seminar, same title). Schulz, MTWThF, 1:00-4:00, Room 271 SH.

Ed 508. Workshop: Aerospace. 6 hours. (July 6-August 1) (OSU)

Especially planned for elementary and secondary teachers and administrators. Considers economic, political, social, geographical, military and technical aspects of the aerospace age. Covers history of flight from beginning to man's most modern aerial developments. First three weeks at the Portland Air Base, fourth week divided between U.S. Naval Ordnance Test Station, China Lake, and Edwards

and Vandenberg Air Force Bases, California. Air transportation to California and return will be furnished by the Armed Forces. Open only to persons who have never enrolled in Aviation Education Workshops. For most part Portland living accommodations will be on an individual basis; California arrangements made by the workshop. Some scholarships may be available. All costs, except for tuition, which is payable at registration, are paid at time of service rendered. Air transportation and base accommodations limit enrollment. Admission by prior application. Address Robert A. Wilcox, Coordinator, Special Programs, 1633 S.W. Park Avenue, Portland. Haas, MTWThF, Portland Air Base.

Ed 508. Workshop: College Development. 2 hours. (July 19-23) (PSC)

A workshop designed to present the philosophy, principles and practices of successful development programs for schools, colleges and universities. Of particular interest and importance to trustees, presidents, vice-presidents for development, public relations developers, alumni secretaries, and graduate students majoring in administration. The program will consist of a small group that will meet for discussion each morning and will be given library and laboratory assignments in the afternoon. A major area of development will be covered each day, with attention directed to sources of support, statement of the case, voluntary leadership, professional leadership, evaluation and follow up. Burns. MTWThF, 8:30 to 12:00, Room 201 DCE.

Ed 508. Workshop: Foreign Language Laboratory for Teachers. 3 hours. (August 4-14) (OSU)

Designed especially to give foreign language teachers in secondary schools a comprehensive background in the use of modern language laboratories. Major emphasis is placed on newly developed teaching techniques appropriate for use in language laboratories. Present-day issues and practices will be discussed including laboratory needs, the care of apparatus, methods of preparation and organization, critical evaluation of teaching, current principles and procedures, modern methods and materials. A laboratory-demonstration class is also planned. Enrollment limited. Langhammer. Wednesday, August 4, through Saturday, August 14—each day except Sunday. 9:00-4:00, Room 49 SPH.

Geog 407. Seminar: Conservation of Natural Resources. 2-3 hours. (Section I: August 1-7; Section II: August 8-14; Section III: August 15-21) (PSC)

Study of forestry, lumber, fish and wildlife, soils, crops, irrigation, water and power potentials and outdoor living for elementary and secondary teachers and administrators and those in general education. A student electing 3 hours of credit will be responsible for an approved project. It is recommended that the project be completed by August 27. Workshop will be held at Hoodoo Ski Bowl. **GOOD PHYSICAL CONDITION IS IMPERATIVE.** Tuition \$28 or \$42; food and lodging for seven days, \$47.50; both sums are payable at the time of registration. Scholarships are available for qualified students. Applications should be addressed to Robert J. Gridley, Special Programs, 1633 S.W. Park Avenue, Portland. Hopson, Stradling and special staff. Hoodoo Ski Bowl.

Geog 507. Seminar: Conservation of Natural Resources. 2-3 hours. (PSC)

(See Geog 407 above)

OA 508. Workshop: Typewriting. 3 hours. (July 6-16) (OSU)

Latest trends in teaching are discussed and demonstrated. Clinic type of approach used in assisting teachers to obtain more effective results in the classroom. Special emphasis given to the latest typing drills. Use of the electric typewriter emphasized. The workshop will be taught by Dr. Fred Winger, Oregon State University, an outstanding authority in the field of typewriting. Winger. MTWThF, 1:00 to 5:00, Room 328 SH.

SEd 407. Seminar: Radiation and Health. 3 hours. (August 2-13) (OSU)

A study of radiation and its effects on people. A survey course designed for public awareness. Of special interest to nurses, teachers, firemen, policemen, utility workers, housewives, and civil defense workers. A basic understanding of biology or physical science is the only requirement. The course will interpret and discuss the latest developments in radiation research and will utilize community resources through lectures, films, and field trips. Workshop director will be Dr. Thomas Colasuonno, who has been director of public health of the Indiana University Medical Center. Colasuonno and special staff. MTWThF, 9:00 to 4:00 Room 201 State Hall.

SEd 507. Seminar: Radiation and Health. 3 hours. (August 2-13) (OSU)

(See SEd 407, with same title, above.)

Wr 13. Fiction Workshop. Non-credit. (July 19-August 6) Fee \$42.00 (DCE)

Designed for the serious, practicing writer of fiction, this program should have special value also for the secondary teacher who is writing and who wants as well to foster originality in his students. Instructor will be Frank Conaway, Portland State College, who has published in *Chicago Review*. During the final days of the workshop the young novelist, John Hawkes, (*The Lime Twig*, *Second Skin*) will meet with the class. He will read and discuss his own work and participate in a discussion of selected student writing. The workshop fee includes admission to the latter two events (general admission of \$1.00 for each event). Class size limited. To be considered for admission prospective students must submit an acceptable piece of original fiction. For details write to Robert Tuttle, Department of English, Portland State College. Conaway. MTWThF, 1:00 to 3:00, Room 331 SPH.

Coordinated Programs in Professional Areas

PROGRAM IN APPLIED ANTHROPOLOGY

A workshop in Applied Anthropology and Social Change is offered throughout the eight-week term. It will meet at 1871½ S.W. Broadway, MTWTh, 1:00-2:50 p.m.

The workshop consists of the following courses: (Students may enroll for less than the full program only with the consent of the instructors.)

Anth 347. Plural Societies and Minority Groups. 3 hours. (PSC)

A comparative analysis of social organization in societies that contain heterogeneous cultural, racial, linguistic, religious and caste groups. Examination of the origins, varieties and structures of plural societies. Problems posed by pluralism and minority groups in maintaining social cohesion and order. Prerequisite: 9 hours in anthropology or sociology, and upper division standing. Kennedy, 1871½ S.W. Broadway, MTWTh, 1:00-2:50 p.m.

Anth 407. Seminar: Health and Human Behavior. 3 hours. (PSC)

Levy, 1871½ S.W. Broadway, 1:00-2:50 p.m., MTWTh.

Anth 460. Cultural Patterns and Technical Change. 3 hours. (PSC)

Analysis of cross-cultural transfer of technologies, utilizing case study materials;

concepts and methods of cultural anthropology as applied to planned culture change, especially in the non-western world. Prerequisite: upper division standing. Pidcocke, 1871½ S.W. Broadway, MTWTh, 1:00-2:50 p.m.

ARABIC INSTITUTE

A Summer Institute for secondary school teachers and selected students of Arabic will be held at Portland State College for eight weeks from June 21 to August 13. The Institute is offered by the college in cooperation with the United States Office of Education under the terms of the National Defense Education Act.

Admission requirements: Applicants must hold a bachelor's degree from an accredited college or university, 1) must have demonstrated ability in the teaching of Arabic at the secondary school level, or 2) must be a supervisor of a high school language program, interested in introducing Arabic to the curriculum, or 3) must have a knowledge of Arabic with or without formal training in the language.

Successful applicants will receive all tuition and other regularly required fees, and will be eligible to receive a weekly stipend of \$75.00, plus an allowance of \$15.00 per week for each dependent, while in attendance at the Institute. Participants in the Institute will be responsible for the payment of room and board or for any other expenses.

A committee of the Portland State College Middle East Studies Center will review all applications and submit recommendations to the Director of the Institute, who will make the final selection of participants.

Hum 507. Seminar: Arabic Studies. 12 hours. (PSC)

Linguistics and language analysis, culture and civilization, history and geography of the Near East. Demonstration class, conversation and composition, methods and materials, and laboratory and live drill practice.

For further information write to the Director of the Middle East Studies Center, Portland State College, Portland, Oregon.

SUMMER INSTITUTE IN ARABIC STUDIES—CAIRO, EGYPT

Portland State College and The American University of Cairo offer an eight-week Summer Institute in Arabic Studies. The program of the Institute is intensive and completely integrated, involving study in both literary and colloquial Arabic, plus courses in literature and history of the Near East. Located at The American University in Cairo, but administered by Portland State College, the Institute will provide air transportation and room and board in Cairo. A limited number of fellowships covering tuition and fees are available to qualified applicants. Non-fellowship students are required to pay \$475.00 to cover the cost of tuition and fees.

Student programs are based upon the following courses:

SmL 50, 51, 52. First-Year Arabic. 12 hours. (PSC) or

- Hum 507. Seminar: Beginning Arabic. 12 hours. (PSC)
 SmL 101, 102, 103. Second-Year Arabic. 12 hours. (PSC) or
 Hum 507. Seminar: Second-Year Arabic. 12 hours. (PSC)
 SmL 311, 312, 313. Third-Year Arabic. 9 hours. (PSC) or
 Hum 507. Seminar: Intermediate Arabic. 9 hours. (PSC)
 SmL 421, 422, 423. Fourth-Year Arabic. 9 hours. (PSC) or
 Hum 507. Seminar: Advanced Arabic. 9 hours. (PSC)
 Hst 407. Seminar: Survey of Modern Near East. By arrangement. (PSC) or
 Hst 507. Seminar: Survey of the Modern East. By arrangement. (PSC)
 Hum 401. Special Studies: Survey of Arabic Literature. By arrangement. (PSC)

For further information and applications, write to the Director, Middle East Studies Center, Portland State College, Portland, Oregon.

CARNEGIE PROFESSIONAL GROWTH PROGRAM

The following seminars are offered cooperatively by Portland State College and the Portland Public Schools as a part of the Carnegie Professional Growth Program.

Persons wishing to enroll in any of the courses listed below must register with the Portland Public Schools:

during the week of June 7—at the Administration Building,
 631 N.E. Clackamas Street

during the week of June 14—in the corridor at Shattuck School

Persons wishing to enroll for *college credit* for any of these courses must *also* register with the Registrar and pay tuition at Portland State College, 724 S.W. Harrison Street, *during the week of June 14*.

Ed 407. Seminar: Concepts of Electricity and Circuitry (Grades 4-6), 3 hours.
 (June 14-July 2) (PSC)

(See Ed 507, with same title, below.)

Ed 507. Seminar: Concepts of Electricity and Circuitry (Grades 4-6). 3 hours.
 (June 14-July 2) (PSC)

Designed to acquaint teachers with circuits, bell hook-ups, static electricity, fuses, wet and dry batteries, insulators and insulation, conductors, converting electricity to heat and light, voltage, amperage, and wattage. Ways of teaching students principles and facts about electricity, and of employing methods of scientific inquiry in understanding them, will be demonstrated in the teaching methodology of the in-service instructor. MTWTh, 8:00-11:00 a.m., Shattuck School, Room B-4. L. Moore.

Ed 407. Seminar: Explorations in Space Science (Grades 4-6). 3 hours. (June 14-July 2) (PSC)

Designed to give teachers a better understanding of the relationships of the earth, moon, sun, stars, and space, and of related concepts, principles, and phenomena. The methods by which the instructor teaches this class will demonstrate effective ways of teaching the subject to elementary school pupils. MTWTh, 12:00 noon-3:00 p.m., Shattuck School, Room B-4. Bergen.

Ed 407. **Seminar: New Frontiers in the Teaching of Reading (Grades 4-6).** 3 hours. (June 14-July 2) (PSC)

(See Ed 547, with same title, below.)

Ed 547. **Advanced Elementary Methods: New Frontiers in the Teaching of Reading (Grades 4-6).** 3 hours. (June 14-July 2) (PSC)

Designed to help teachers to learn developmental approaches to teaching reading skills, ways of applying reading skills in content areas, the importance of listening and how it can be taught, principles of linguistics that will help in the teaching of reading, the relationships between oral language and reading and how they can be made to reinforce each other, how to stimulate interest in reading, how to develop use of descriptive language, how to develop word recognition skills, how to use phonic clues and structural analysis to de-code new words, how to develop word meaning and vocabulary, how to help derive meaning from what is read, how to help develop skills of critical reading, how to develop self-confidence in reading, how to teach study skills, how to help use books and references effectively, how to teach note-taking and outlining, how to teach use of the library, how to develop oral reading skills, how to increase enjoyment of reading, how to help children enjoy poetry. MTWThF, 9:00-4:00, Shattuck School, Room C-4. Darnell.

Ed 407. **Seminar: Organization Dynamics in the Classroom (Grades 4-6).** 3 hours. (June 14-July 2) (PSC)

(See Ed 507, with same title, below.)

Ed 507. **Seminar: Organization Dynamics in the Classroom (Grades 4-6).** 3 hours. (June 14-July 2) (PSC)

Designed to help teachers with pupil-teacher planning; creating an attractive room environment; organizing the physical features of the room to facilitate movement, use of facilities, and grouping; fire drills; daily beginning and ending routines; effective use of committees; grouping theory and practice; daily planning; development of pupil self-control and supervisibility; and other aspects of classroom control and management. MTWTh, 8:00-11:00 a.m., Shattuck School, Room B-3. Grimmert.

Ed 407. **Seminar: Scientific Investigation (Grades 8-9).** 3 hours. (June 14-July 2) (PSC)

(See Ed 507, with same title, below.)

Ed 507. **Seminar: Scientific Investigation (Grades 8-9)** 3 hours. (June 14-July 2) (PSC)

Designed to give teachers experience in scientific inquiry in the field of physical science. The instructor will sit as a laboratory director and teachers will perform experiments, plan their own investigations, and evaluate results obtained using sound principles of scientific procedure.

Teachers will be given experience in brainstorming, recording, organizing, and analyzing observed data, improvising measuring instruments, graphing mathematical relationships, and applying mathematics to the solution of science problems. The study of heat will be the subject vehicle for teaching principles of scientific inquiry. The selection of a single topic was made intentionally to illustrate how major values of science instruction can be woven into the study of a single subject. MTWTh, 8:00-11:00, Washington High School, Room 23, 531 S.E. 14th Avenue. Melnichuk.

Ed 407. **Seminar: Teaching Health Subjects with Social Implications.** 2 or 4 hours. (June 21-July 2) (PSC)

(See Ed 507, with same title, below.)

Ed 507. **Seminar: Teaching Health Subjects with Social Implications.** 2 or 4 hours. (June 21-July 2) (PSC)

Designed to assist teachers in helping students understand the scientific facts

about tobacco, its uses, and its effects on the human body; and the social and economic implications of tobacco use. Teachers will be acquainted with a variety of films, publications, and other resources, and will be taught imaginative and varied instructional methods. (2 term hours)

Designed to assist teachers in helping students distinguish between fact and misinformation regarding the use of alcoholic beverages; understand the impact of advertising; understand the psychological and physical effects of drinking various amounts and for varying lengths of time; understand the behavioral effects of drinking; understand the socio-economic problems associated with excessive use of alcohol and the functions of organizations that exist for the treatment of problem drinkers; and gain knowledge of reliable sources of information about drinking. Procedures will be used in the teaching of the in-service courses which will demonstrate effective ways of presenting the subject to students. (2 term hours) MTWThF, 8:00 a.m.-12:00 noon, Shattuck School, Room C-3. Polen and staff.

Ed 407. Seminar: Unifying Ideas in Mathematics (Grades 3-6). 3 hours. (June 14-July 2) (PSC)

(See Ed 547, with same title, below.)

Ed 547. Advanced Elementary Methods: Unifying Ideas in Mathematics (Grades 3-6). 3 hours. (June 14-July 2) (PSC)

Designed to help teachers understand and teach modern approaches to mathematics; to make teachers familiar with the various number theories, terms, symbols, and ideas that will increase their confidence in teaching mathematics; to introduce a fund of teaching techniques consistent with current philosophy; and to provide teachers a rich and interesting experience in discovering relationships so they may understand the thrill of discovery that is possible for children. MTWTh, 8:00-11:00 a.m., Shattuck School, Room B-5. Ball and Langston.

Ed 407. Seminar: Unit Teaching in the Elementary School. 3 hours. (June 14-25) (PSC)

(See Ed 507, with same title, below.)

Ed 507. Seminar: Unit Teaching in the Elementary School. 3 hours. (June 14-25) (PSC)

Designed to help teachers develop skills in teaching children to explore ideas, solve problems, use resource materials, listen and follow directions, develop study skills, and learn habits of independent inquiry. Teachers will be led through activities that will demonstrate how teachers can accomplish these objectives within the context of the subject matter of the public school curriculum. MTWThF, 9:00 a.m.-4:00 p.m., Portland Public Schools Administration Building, 631 N. E. Clackamas St., Curriculum Laboratory. Schaper and staff.

Eng 507. Seminar: The Grammar of English. 3 hours. (June 21-July 2) (PSC)

The purpose of this two-week seminar is to promote an understanding of the structural and transformational grammar of the English language in line with contemporary scholarship. It will be presented with a view to its use in the teaching of linguistics and composition as set forth in the *Portland Guide for High School English*. Limited enrollment. Teachers outside the Portland School District may address inquiries to Marian Zollinger, Portland Public Schools. MTWTh, 2:00-5:00 p.m., Student Commons, Portland Community College, 1914 S.W. Park Avenue. Poepping, Slager.

Sci 507. Seminar: Explorations in Biological Science. 3 hours. (June 14-July 1) (PSC)

Designed to help teachers learn how to observe and classify living things; study, construct, and interpret graphs and charts; understand the influence of environmental factors on living organisms; study a population of organisms; study the influence of light and temperature on seed germinations; interpret relationships

of organisms in nature; study the characteristics of parasites in a biotic community; study the relationships of organisms in a simulated water community; and study animal and plant interactions in a sealed community.

Seeks to develop the ability to observe and record data accurately and objectively, to keep a log, to classify data, to use resource material, to develop hypotheses, to understand the requirements of sound experimentation, to generalize within the limits of data, etc. Students who expect to earn credit should register at PSC on June 14. MTWTh, 1:00-4:00 p.m., Cleveland High School, S.E. 26th and Powell. Bruno, Miles.

PROGRAM IN CLINICAL SUPERVISION

Portland State College and the State Department of Education are sponsors of a workshop in Clinical Supervision. The workshop will be staffed by personnel from David Douglas School District, Lewis and Clark College, Linfield College, Marylhurst College, Oregon College of Education, Portland Public Schools, and Portland State College. The workshop is a companion to a workshop in Eugene and is part of a state-wide program to improve supervisory practice and to improve the manner by which we induct new members into the profession. Students in the program enroll in the following courses:

Ed 507. Seminar: Clinical Supervision. 3 hours. (June 21-July 26) (PSC)

The history and theory of supervisory practice. The rationale for the practice of clinical supervision and analysis of the supervisory cycle. Enrollment by special permission only. Credit optional. TTh, 2:00-4:00. Hale.

Ed 509. Practicum: Clinical Supervision. 3 hours. (June 21-July 26) (PSC)

Classroom practice of supervisory skills in summer session laboratory schools. Application of the cycle in Clinical Supervision in actual school situations. Designed to improve the individual's skill in supervision and to relate the theory of Clinical Supervision to practice. Enrollment by special permission only. Credit optional. MTWThF, 8:00-1:00. Hale.

Participants are selected primarily through a teacher education institution and in some cases through their school district. The State Department of Education will review all applications before final selection is made. Inquiries may be directed to James Hale, Division of Education, Portland State College.

DEMONSTRATION SCHOOL

Portland State College will operate an eight-room elementary school at Buckman School, 320 S.E. 16th Avenue, Portland, Oregon 97214, for the purpose of demonstrating teaching-learning situations when observation of such is required. Limited opportunity will be available for students who can qualify to do student teaching under expert supervision. Students interested in this program may write or call Dr. Ray O. Wolf, Director of Student Teaching, at the college. The school program offers enrichment experiences for elementary students in grades one through

eight. College students, other than those enrolled in student teaching, who wish to observe teaching-learning procedures must make arrangements to do so with the principal of the school.

DEUTSCHE SOMMERSCHULE AM PAZIFIK (June 18 to August 6)

A program of intensive instruction in German. A distinguished faculty of German-born teachers will give courses in German literature, conversation and composition. German will be used exclusively in and out of the classroom. German movies, music and art will help students "live the language." Trips to mountains and beaches, sports, parties and games are included in the program. Students will register for a combination of courses selected from the listing below, totaling 12 hours of credit.

For further information, write to Dr. H. F. Peters, Director, Portland State College, P.O. Box 751, Portland, Oregon 97207.

An additional course fee of \$60 is required for this program.

GL 334, 335, 336. Intermediate German Composition and Conversation. 2 hours. (PSC) Staff.

GL 401. Special Studies: German Life and Thought. 4 hours. (PSC) Wolf.

GL 407. Seminar A: German Expressionism (GRAD). 4 hours. (PSC) Langhammer.

Seminar B: The Romantic Tradition (GRAD). 4 hours. (PSC) Wolf.

Seminar C: The Classic Ideal (GRAD). 4 hours. (PSC) Peters.

Seminar D: Modern Fiction (GRAD). 4 hours. (PSC) Eaton.

Ed 408. Special Secondary Methods: German. 2 hours. (PSC) Langhammer.

GL 424, 425, 426. Advanced German Composition and Conversation (G). 2 hours. (PSC) Peters, Langhammer.

MATHEMATICS FOR SECONDARY SCHOOL TEACHERS

This institute, supported by an NSF grant to Portland State College, is especially designed for secondary school teachers of mathematics. It will provide them with: a better understanding of the algebra and geometry they teach; an introduction to probability and understanding of some of its applications to the world in which we live; a comparative analysis of contemporary and traditional high school algebra courses; a broader mathematical base for their teaching. The institute will be held five days a week during the period of June 21 to August 13. Participants will receive a stipend and allowance for dependents and travel. Stipends are provided for 30 secondary teachers. Besides these 30 teachers, a limited number of qualified high school teachers will be permitted to enroll in one or more of the three courses at their own expense.

Request for application forms should be directed to Dr. J. Richard Byrne, Portland State College, P.O. Box 751, Portland, Oregon 97207.

Ed 507. Seminar: Methods and Materials in Teaching High School Mathematics. 4 hours. (PSC)

Seminar on contemporary high school mathematics. Selected topics from SMSG, UICSM, and other contemporary, as well as traditional, high school algebra courses, will be compared and analyzed both from subject matter and didactic point of view. (This course will not be a page-by-page study of a particular publication for high school students.) This course will serve as a liaison between the other courses of the Institute and the classroom mathematics of the teacher in his high school.

Mth 507. Seminar: Geometry and Probability. 4 hours. (PSC)

The geometry portion will cover: The fundamental concepts in modern view. The role of axioms and postulates in a natural approach. Figures in plane and space. Mappings and transformations. Constructions. Class invention of original axiom systems (without attempt to have these minimal or independent) and the derivation of simple theorems from them.

The probability portion will cover: Historical. "Statistical" and a priori probability. Random events and trials. Sample space. Axioms. Combinations of and relations among events. Combinatorial analysis. Random variables. Conditional probabilities. Bernoullian and asymptotically Bernoullian case. Poisson distribution. Gaussian distribution. Applications.

Mth 507. Seminar: Introduction to Abstract Algebra. 4 hours. (PSC)

Sets, mappings, equivalence relations, properties of integers, rings, isomorphism, integral domains, divisors, g.c.d., congruence, ring of integers modulo n , properties of rational numbers, construction of the rational numbers, field of real numbers, Dedekind cuts.

PROGRAM FOR TEACHERS OF THE MENTALLY RETARDED

Effective July 1, 1965 no further certificates to teach the mentally retarded will be issued in Oregon. However, the twelve-hour program outlined below leads to the fulfillment of requirements of certain state certificate norms wherein mentally retarded courses are required. Teachers enrolling in this program will not have time available for courses in other fields. The Portland Continuation Center program, consisting of the following courses, will be held at the Eliot School, 2231 N. Flint, Portland. For application for admission form write to Robert J. Gridley, Chairman, Special Programs, 1633 S.W. Park Avenue, Portland, Oregon 97201.

Ed 489. Curriculum for the Mentally Retarded. (G) 3 hours. (UO)

Curriculum, methods and materials for special classes developed on the basis of the diagnosed characteristics of mentally retarded children. Prerequisite: Ed 464.

Ed 409. Practicum: Teaching the Mentally Retarded. (G) 3 hours. (UO)

ArE 409. Practicum: Art Experiences for the Mentally Retarded. (g) 3 hours. (UO)

Practicum experience provided in the use of creative activities as problem-solving opportunities for the mentally retarded child; laboratory experiences with art and craft materials.

Ed 464. The Mentally Retarded Child (G) 3 hours. (UO)

The psychology, education and guidance of the mentally retarded child.

NDEA INSTITUTE: HISTORICAL PROBLEMS; AMERICAN, MIDDLE WAY, AND MARXIAN SYSTEMS

Consideration of historical and current aspects of the Marxian, free enterprise, and mixed systems. Evaluation of materials for secondary instruction and investigation of new methods and procedures for teaching this subject matter. Students in the institute must register for the following courses:

Ec 507. Seminar: Comparative Economic Systems. 3 hours. (PSC)

Hst 507. Seminar: Scandinavia. 3 hours. (PSC)

Hst 507. Seminar: Recent Historical Developments. 3 hours. (PSC)

PS 507. Seminar: The Soviet Union. 3 hours. (PSC)

NDEA COUNSELING AND GUIDANCE INSTITUTE

Portland Continuation Center offers a Summer Term Counseling and Guidance Institute under the auspices of the National Defense Education Act. This Institute carries 12 graduate credits and is focused toward the needs of counselors who will have completed a first year graduate program in counseling and guidance at the termination of the Institute program.

The Counseling and Guidance Institute is an eight-week program, beginning June 21 and terminating August 13. Enrollees are selected. Information may be obtained from Dr. Earl T. Zwetschke, Director, Summer NDEA Counseling and Guidance Institute, 1633 S.W. Park Avenue, Portland, Oregon 97201, or call 226-6601, extension 1160.

The following courses constitute the core offering for the Institute:

Psy 436. Character and Personality (g). 3 hours. (UO)

1. or

Psy 473. Individual Differences (g). 3 hours. (OSU)

Psy 480. Psychological Tests and Testing (g) (3rd term). 3 hours. (OSU)

2. or

Ed 528. Group Testing in Schools and Colleges. 3 hours. (UO)

Ed 509. Practicum: Secondary-School Counseling. Hours to be arranged. (UO)

3. or

Ed 577. Counselor Training: Group Procedures. 3 hours. (OSU)

Psy 449. Occupational Choice and Psychology of Careers (G). 3 hours. (UO)

4. or

Ed 533. Psychological-Sociological Aspect of Vocations. 3 hours. (OSU)

Additional courses, as follows, will be available for individual program planning:

1. Psy 478. Psychological Tests and Testing (g) (1st term). 3 hours. (OSU)

Psy 479. Psychological Tests and Testing (g) (2nd term). 3 hours. (OSU)

2. or

Psy 421. Principles and Methods of Psychological Assessment (g). 3 hours. (UO)

- Ed 588. Supervised Counseling Techniques. 3 hours. (OSU)
 3. or
 Psy 524. Individual Intelligence Testing (WISC and WAIS). 4 hours. (UO)
 Psy 525. Individual Intelligence Testing (Stanford-Binet). 2 hours. (UO)

SUMMER INSTITUTE IN PUBLIC HEALTH (July 12-August 13)

A multi-disciplinary program of instruction in Public Health for teachers and school administrators, especially those serving as school health coordinators. This summer course will consist of lectures, seminars and field experiences in several aspects of Public Health and will be taught by a high-level faculty drawn from medicine, public health, education and related fields. Limited to 20 students. 9:00 a.m. to 12:00 noon and 1:00 p.m. to 4:00 p.m. daily.

For further information and application forms, write to Hugh Smithwick, Portland State College, P.O. Box 751, Portland, Oregon 97207. After consultation with Mr. Smithwick, students may register for work carrying nine hours graduate credit.

Ed 501. Research. 3 hours. (PSC)

Students will undertake individual research problems.

Ed 507. Seminar: Problems, Resources and Administration of Public Health in the Community. 3 hours. (PSC)

Analysis of current public health problems by local community research personnel as they relate to migrant health, communicable disease control, school curriculum and health activities within the community. Also, the use of available resources and administration procedures of public health at the local and state level.

Ed 508. Workshop: Field Experience in Community Health. 3 hours. (PSC)

Practical experiences in the application of the principles of public health. Field trips and work experiences with the local and state official public health agencies, voluntary health agencies, and selected state institutions.

REMEDIAL EDUCATION AND SUMMER READING CLINIC

The Ed 409 Practicums listed below are offered in conjunction with a summer reading clinic. Teachers who are preparing to meet the Masters degree requirement in remedial education at the University of Oregon, and classroom teachers interested in diagnostic and remedial techniques will find the practicum experience to be of value. Practicums may be taken for either 3 or 6 hours of credit during the summer term. For students enrolling in Ed 465 or Ed 468, concurrent enrollment in Ed 409 Practicum: Remedial Education is required.

Teachers who desire to enroll in the practicum must have special permission from the director of the program. Since enrollment is limited, it is important to make application well in advance of the beginning of the summer term—preferably before June 1.

Children for the reading clinic may be referred by parents or teachers. To be eligible, children should be in grades four (or repeating the third

grade) through eleven. Children accepted for the clinic will be scheduled between 9:00 a.m. and 12:00 noon, Mondays through Thursdays from June 28 through August 5. The reading clinic is located during the summer term in Buckman School, 320 S.E. 16th Avenue, Portland. Application should be made as soon as possible.

Direct all inquiries about the practicum, remedial education programs and the reading clinic to: Director of Remedial Education and Summer Reading Clinic, Portland Continuation Center, 1633 S.W. Park Avenue, Portland, Oregon 97201. Telephone: 226-6601, Ext. 1150.

Effective July 1, 1965 no further remedial education certificates will be issued in Oregon. However, the courses listed below meet the requirements of certain state certificate norms wherein remedial education courses are requisite.

- Ed 409. Practicum: Remedial Education—Diagnosis (G) 3 hours. (UO)
- Ed 409. Practicum: Remedial Education—Remediation (G). 3 hours. (UO)
- Ed 428. Psychology of Reading Instruction (G). 3 hours. (UO)
- Ed 429. Principles of Remedial Education (G). 3 hours. (UO)
- Ed 465. Diagnostic Techniques in the Basic Skills (G). 3 hours. (UO)
- Ed 468. Remedial Techniques in the Basic Skills (G). 3 hours. (UO)
- Ed 562. Issues in Extreme Learning Difficulty. 3 hours. (UO)

SPEECH CORRECTION PROGRAMS

Two types of speech correction programs are available. A variety of courses are offered in conjunction with these programs; 1. Those leading to: (a) the fulfillment of requirements of certain State Certificate norms where in speech correction courses are required, (b) certification with the American Speech and Hearing Association. 2. Those leading to the Master of Education degree at the University of Oregon.

Both programs represent an extension of the University of Oregon's speech correction program and are offered at the Portland Continuation Center in cooperation with the Crippled Children's Division, University of Oregon Medical School. Students interested in either of these programs are encouraged to consult with Mr. Robert E. Stone, Portland Continuation Center, for information and guidance.

The courses to be offered during the Summer Term are as follows:

- Sp 370. Phonetics. 3 hours. (UO)
- Sp 371. Speech Science. 3 hours. (UO)
- Sp 481. Speech Pathology (G) (1st term). 3 hours. (UO)
- Sp 482. Speech Pathology (G) (2nd term). 3 hours. (UO)
- Sp 483. Speech Pathology (G) (3rd term). 3 hours. (UO)
- Sp 484, 485, 486. Clinical Speech Therapy (G). 2 hours each term. (UO)

Sp 487. Audiology (G) (1st term). 3 hours. (UO)

Sp 488. Audiology (G) (2nd term). 3 hours. (UO)

Students wishing to pursue an undergraduate level speech correction program at Portland State College should consult with Dr. Robert H. English. The 400-level courses listed below are also available for graduate credit.

Sp 370. Phonetics. 3 hours. (PSC)

Sp 371. Speech Science. 3 hours. (PSC)

Sp 481. Speech Pathology (1st term). 3 hours. (PSC)

Sp 482. Speech Pathology (2nd term). 3 hours. (PSC)

Sp 483. Speech Pathology (3rd term). 3 hours. (PSC)

Sp 484, 485. Clinical Speech Therapy. 2 hours each. (PSC)

Sp 487. Audiology. 3 hours. (PSC)

Students enrolled in clinical activities will have the opportunity to observe and participate in the various clinics at the Crippled Children's Division, University of Oregon Medical School.

SPEECH CORRECTION SERVICES FOR CHILDREN

Clinical speech correction services are provided for children between the ages of 4 and 21. The selection of children for admission to the clinic is based on examination and interview. A parent must accompany the child to the examination and should be available for conference with clinicians at least one day a week throughout the six-week summer term for the children. Referrals may come from any source. Children in need of speech correction are scheduled for therapy in one or two hour periods, four mornings a week for six of the eight weeks between June 21 and August 13. Sessions for children are held at the speech clinic in the basement of South Park Hall, 724 S.W. Harrison. Children may be enrolled concurrently in the reading clinic and/or in the demonstration school by special arrangement. Applications in behalf of children should be directed to Mr. Robert E. Stone, Clinic Supervisor, Portland Continuation Center, 1633 S.W. Park Avenue, Portland, Oregon 97201.

Special Programs Beginning Before or After the Eight-Week Term

Ed 24. i/t/a/ Workshop. (non-credit) (June 15-18) (DCE)

A practical overview of the use of i/t/a/ (initial teaching alphabet) as a tool for teaching beginning readers. Of specific interest to teachers and administrators, but open to parents and other interested persons. Films, publications and other ma-

materials will be presented as well as practice in encoding and decoding. Necessary i/t/a/ materials will be provided. Course fee \$27.00. Brown. DCE Auditorium. Three sections to be selected by the instructor: 8-10 a.m., 10-12 a.m., and 1-3 p.m. MTWThF.

SEd 507. Seminar: Smoking and Health. 2 hours (June 14-18) (OSU)

An intensive one-week seminar open to leaders of youth groups, clergy, parents, teachers and others on the relationship of smoking to health. Primary objective will be to acquaint the group with the nature and scope of the problem and with materials, methods and techniques of combating it. This seminar will be directed by Dr. G. W. Anderson, Assistant Professor of Hygiene and Health Education, Oregon State University, assisted by resource people from the community. Some full tuition scholarships will be available. Scholarship application forms and information may be obtained from Special Programs, 1633 S.W. Park Avenue, Portland. G. Anderson. MTWThF, 9:00 to 4:00, Room 150 SH.

Ed 508. Workshop: Supervised i/t/a Teaching. 3 hours. (June 21-August 13) (OSU)

Supervised practice in teaching i/t/a (initial teaching alphabet) and conventional development reading to small groups of pre-school children in structured experimental situation. Open only to certified Oregon elementary teachers and administrators who have taken an i/t/a workshop. The Child Development Center, Gaines Hall, U of O Medical School, Gaines Road and S.W. 19th. Brown. MTWThF, 9:30 a.m. to 11:30 a.m.

ArE 411. Methods and Research Materials: Art in Elementary Schools. (G) 3 hours. (August 16-27) (UO)

A study of significant literature and research in the field; laboratory investigation of materials, ideas, and methods currently used in elementary schools. Satisfies state certification requirement for an elementary art-methods course. Prerequisite: ArE 311, 312, previous teaching experience or consent of the instructor. Tetzner. MTWThF, 9:00 to 4:00, Room 235 SPH.

BA 35. Review in Municipal Accounting. (Non-credit) (August 16-Sept. 2) (DCE)

This course is designed for: (1) financial officers of state and local governments and nonprofit institutions, (2) candidates for the State Board of Accountancy examination for admittance to the roster of accountants authorized to conduct municipal audit examinations in the State of Oregon, and (3) members of the public accounting profession engaged in the examination of municipalities and nonprofit organizations. The course will consist of: (1) special theory of accounting for municipalities and nonprofit organizations requiring accounting by "funds," (2) a review of budgetary and other laws relating to municipalities in the State of Oregon, and (3) auditing standards and procedures observed in the examination of financial statements of municipalities and nonprofit organizations. Course fee \$30. Savage. Monday and Thursday, 6:45-9:30 p.m., Room 145 SH.

Ed 507. Seminar: Altering Curricular Patterns in American Secondary Education. 3 hours. (August 16-27) (PSC)

Study of the instructional patterns that are developing in secondary schools as our society becomes urbanized. Opportunity will be provided for curriculum directors, department chairmen, and experienced teachers to accomplish special investigations in areas of interest. Hummel. MTWThF, 9:00 to 3:00, Room 218 OM.

Ed 507. Seminar: Inter-Group Relations. 3 hours. (August 16-27) (PSC)

This is a course designed to aid school personnel, community workers and other interested persons in understanding the nature of our intergroup society; the racial, religious and ethnic groups that compose it and the nature of prejudice and discrimination as they give rise to intergroup conflict.

The current situations and programs for amelioration will be considered in the light of American values and social science knowledge. Methods and materials will be discussed for education and intergroup relations and for dealing with intergroup problems in the school and community. The present civil rights revolution as it relates to the areas of housing, employment and education will be given special attention. Teachers of minority group children will obtain valuable insights. Guy and Berreman. MTWThF, 9:00 to 4:00, Room 250 SH.

Soc 507. Seminar: **Inter-Group Relations**. 3 hours. (August 16-27) (PSC)
(See Ed 507 above.)

Ed 507. Seminar: **Teaching Modern Mathematics in the Elementary School**. 3 hours. (August 16-27) (PSC)

A study of the structural properties of the system of rational numbers with special emphasis upon the major topics of the experimental program in elementary school mathematics prepared by the School Mathematics Study Group (SMSG). Ruddell. MTWThF, 9:00 to 4:00, Room 214 OM.

Ed 407. Seminar: **Teaching of Foreign Languages (Elementary and Secondary)**. 3 hours. (August 16-27) (PSC)

The theory and practice of language learning and language teaching from kindergarten to college. Special emphasis on the audio-lingual approach from an eclectic point of view and in combination with electromechanical aids from tape recorder to language laboratory. The course is conducted in English with practice by the participants in the language of their specialization. Individual consideration will be given for practice with the text with which each participant plans to teach. Participants will have the opportunity to observe a demonstration class of high school students taught by Dr. Mathieu every day from 9:00 to 9:50 as a regular feature of this seminar. Mathieu. MTWThF, 9:00-4:00, Room 213 OM.

Ed 507. Seminar: **Teaching of Foreign Languages (Elementary and Secondary)**. 3 hours. (August 16-27) (PSC)
(See Ed 407 above.)

Ed 507. Seminar: **Teaching Science in the Elementary School**. 3 hours. (August 16-27) (PSC)

Stress will be placed on experimentation, discovery and the processes of science. Teachers will be given opportunities to develop instruction materials and construct sample pieces of equipment for use in their elementary science programs. National projects now under way in elementary science will be studied. Blecha. MTWThF, 9:00 to 4:00, Room 215 OM.

Ed 407. Seminar: **The Ungraded Primary**. 3 hours. (August 16-27) (PSC)

Designed to provide intensive study of the ungraded primary as an administrative technique to encourage and promote continuous and steady growth of each child. Areas included for explanation and discussion are the following: underlying philosophy, initiation of the program, patterns of organization and of groupings, classroom practices and instructional techniques, curriculum problems and materials, staff and administrative problems, evaluation. Kelly. MTWThF, 9:00 to 4:00, Room 207 OM.

Ed 507. Seminar: **The Ungraded Primary**. 3 hours. (August 16-27) (PSC)
(See Ed 407 above.)

Ed 407. Seminar: **Workshop in Instructional Media and Technology**. 3 hours. (August 16-27) (PSC)

Offered as a graduate level seminar, lectures on the new technology of instruction will be balanced by ample opportunity for students to employ creative skills culminating in useful instructional media. Participants will form "instructional teams" and will gain experience in using a systems approach in the conceptualization

and preparation of selected media to accomplish defined objectives. Weisgerber. MTWThF, 9:00 to 4:00, Room 208 OM.

Ed 507. Seminar: Workshop in Instructional Media and Technology. 3 hours (August 16-27) (PSC)

(See Ed 407 above.)

Ed 508. Workshop: Guidance of the Culturally Disadvantaged. 3 hours. (August 16-27) (OSU)

Socio-cultural background and current problems of the disadvantaged. Development of materials and study of action programs. Lectures, demonstrations and participation with disadvantaged persons. Guest staff will include Professor Anna Grant of Atlanta University, one of the forty distinguished American Negro women recommended to President Kennedy by the American Council on Human Rights, as being eminently qualified to serve the National Government in policy making positions; Thomas E. Gaddis, lecturer, well-known corrections specialist and author of the *Bird Man of Alcatraz*; Dr. Hilda Davis, National Projects Chairman of Delta Sigma Theta Sorority. Fullmer, MTWThF, 9:00-4:00, Room 250 SH.

Eng 508. Workshop: Creative Writing in the Elementary School. 3 hours August 16-27) (UO)

Designed especially for elementary teachers to assist them in helping children write creatively. Lectures and critique of writings by Dr. Claudia Lewis of the Bank Street College of Education in New York. Dr. Lewis has written books and verse for children and articles for the Saturday Review. Enrollment limited. Lewis. MTWThF, 9:00 to 4:00. Room 147 State Hall.

Geog 407. Seminar: Water Utilization and Conservation. 2-3 hours. August 16-21) (PSC)

Stresses the role of water in the development of the Pacific Northwest. Various aspects of water utilization and conservation will be covered, including recreation, forests, wild life, navigation, flood control, manufacturing, power, and pollution. Designed to acquaint employees of federal, state and local agencies and industry as well as elementary and secondary teachers with various aspects of water utilization and conservation in the Pacific Northwest. A student electing 3 hours of credit will be responsible for an approved project. It is recommended that the project be completed by August 27. **GOOD PHYSICAL CONDITION IS IMPERATIVE.** This seminar will be held at facilities of the Portland General Electric Company at Timothy Lake, in the Mt. Hood National Forest. Because of (a) the distances involved for the numerous field trips and (b) the dusty mountain roads to be traveled, commercial bus transportation, rather than private student cars, will be utilized. Tuition, \$28 or \$42; food and lodging for seven days \$37.50, bus transportation, \$10; total costs are payable at the time of registration. Scholarships are available for qualified students. Applications should be addressed to Robert J. Gridley, Chairman, Special Programs, 1633 S.W. Park Avenue, Portland. Ashbaugh, Courtney and special staff. Timothy Lake.

Geog 507. Seminar: Water Utilization and Conservation. 2-3 hours. (August 16-21) (PSC)

(See Geog 407 above.)

Mus 507. Seminar: French Horn. 3 hours. (August 16-27) (PSC)

Extensive work on this most difficult and misunderstood instrument, under the direction of Russell White, principal horn player of the Portland Symphony Orchestra and instructor of brass instruments at Portland State College. This workshop is designed to acquaint the music educator with the various problems involved in actually playing the horn. Students enrolling in this course must furnish their own instruments (either a single F or double F-B-flat horn). Study materials will in-

clude horn exercises devised by Mr. White, various other written horn techniques as well as all phases of playing the instrument from breath control and tuning to muting and playing positions. White, MTWThF, 9:00 to 4:00, Room 453 SH.

Mus 507. Seminar: Oboe. 3 hours. (August 16-27) (PSC)

Class instruction in oboe performance skills stressing embouchure and fingering problems and including selection and adjustment of instruments, reedmaking and adjusting, and a survey of music for instruction and performance. Participants will be required to bring an oboe and a copy of the book "The Art of Oboe Playing" by Robert Sprenkle and David Ledet, published by Summy-Birchard. Those participants who can bring oboe reed tools are asked to do so; however, tools will be available for the use of those participants who do not have their own. Reeds and reed making materials will be furnished at no extra fee. The problems of oboe playing will be treated by lecture-demonstration accompanied by group and demonstration lessons. It is expected that workshop participants, through actual practice will acquire skills and knowledge which will be of practical value in assisting their own students when they return to their teaching positions.

The class will be limited to instrumental music teachers. Consent of the instructor must be obtained for college and high school students. Cunningham, MTWThF, 9:00 to 4:00, 449 SH.

PE 480. Driver Education and Training. (G) 3 hours. (August 16-27) (OSU)

A basic course for preparation of teachers to conduct driver-training courses in high schools. Actual behind-the-wheel instruction in dual-control car supplied under sponsorship of the American Automobile Association and the State Department of Education. Prerequisite: senior or graduate standing and teaching experience. Urlaub, MTWThF, 9:00 to 4:00, Room 150 State Hall.

Sp 507. Seminar: High School Forensics (for teachers). 3 hours. (August 16-27) (PSC)

An intensive study and practice of theory and methods in high school speech activities including debate, oratory, extemporaneous speaking, and interpretative reading encompassing lectures, discussions, demonstrations; projects in directing and evaluating with participating students (see corresponding workshop for high school students, Sp 33, same title). Emphasis upon topics which will be used during the ensuing school year. Enrollment open to high school teachers who may be responsible for some phase of speech activities. Padrow, MTWThF, 9:00 to 4:00, Room 490 SPH.

Sp 33. High School Forensics Workshop (for students). (non-credit) (August 16-27) (DCE)

An intensive study and practice of theory and methods in high school speech activities including debate, oratory, extemporaneous speaking, and interpretative reading. Lectures, discussions, demonstrations, projects in participation for students. Students will receive special coaching from participating teachers (see corresponding workshop for teachers (above), Sp 507 Seminar, same title). Emphasis upon topics which will be used during the ensuing school year. Enrollment open to high school students recommended by their high school speech teachers. Course fee \$25. Padrow, MTWThF, 9:00 to 4:00, Room 490 SPH.

Eleven-Week Term

Portland State College Program

Anthropology

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

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

Biology

Bi 204, 205, 206. General Zoology. 4 hours each term. (PSC)

A survey of the animal kingdom with special emphasis on the morphology, physiology, genetics, reproduction, ecology, and evolution of animals. For biology majors and students in premedical, pre dental, prepharmacy, and preveterinarian programs.

Bi 251, 252, 253. Principles of Biology. 4 hours each term. (PSC)

A study of the basic principles of living organisms, both plant and animal including nutrition, respiration, excretion, mechanisms of response, reproduction and development, genetics, evolution, and ecology. Structure, physiology, taxonomy and ecology investigated in the laboratory, in the field, and by special reading. For science majors and others requiring a substantial background of biological principles. Open only to those with acceptable high school training and achievement.

Bi 326. Comparative Vertebrate Embryology. 4 hours. (PSC)

Comparative study of the development of several representative vertebrate forms. Prerequisite: Bi 206 or Bi 253.

Bi 353. General Entomology. 4 hours. (PSC)

An introduction to the morphology, physiology, biology, and classification of the insects. Prerequisite: one year of a biological science.

Business Administration

BA 211, 212, 213. Principles of Accounting. 3 hours each term. (PSC)

Technique of account construction; preparation of financial statements. Application of accounting principles to practical business problems. Required of majors, prerequisite to advanced work in business.

Portland Continuation Center Program

Finance and Business Environment

FBE 514. Financial Environment (p). 3 hours. (UO)

The financial system as an external environment affecting business and financial decisions. Characteristics of the overall financial system of an enterprise economy;

nature and functions of money and credit, and their influence on product demand and the supply of finance from the standpoint of the individual business; roles of monetary and fiscal policy, debt management, and the money and capital markets.

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

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

Portland State College Program

Chemistry

Ch 104, 105, 106. General Chemistry. 4 hours each term. (PSC)

For students majoring in medical technology, pre dental, nursing, and liberal arts. Prerequisite: high school algebra, or consent of instructor.

English

Eng 101, 102, 103. Survey of English Literature. 3 hours each term. (PSC)

From Beowulf to the present. Eng 101: Beowulf to Milton; Eng 102: Milton to Byron; Eng 103: Byron to the present.

Foreign Languages

French

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

An introduction to French, stressing hearing, speaking, reading, and writing. Exercises in elementary composition and grammar. No credit will be granted for this course if the student has completed two or more years of high school work in this language.

German

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

Provides a thorough grammatical foundation of German, stressing hearing, speaking, reading and writing. No credit will be granted for this course if the student has completed two or more years of high school work in this language.

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

No credit will be granted for this course if the student has completed four or more years of high school work in this language.

Italian

RL 70, 71, 72. First-Year Italian. 4 hours each term. (PSC)

Introductory course. Hearing, speaking, reading, and writing for the beginner. No credit will be granted for this course if the student has completed two or more years of high school work in this language.

Spanish

RL 60, 61, 62. **First-Year Spanish.** 4 hours each term. (PSC)

An introduction to Spanish, stressing hearing, speaking, reading, and writing. No credit will be granted for this course if the student has completed two or more years of high school work in this language.

General Science

GS 101, 102, 103. **General Biology.** 3 hours each term. (PSC)

The fundamental principles of life as they apply to both plants and animals. If taken after courses with similar materials have been completed, credit will be restricted.

GS 104, 105, 106. **Physical Science.** 3 hours each term. (PSC)

Fundamental principles of physics, chemistry, astronomy, and geology; development and application of the scientific method. For students majoring in fields other than the physical sciences who wish a broad view of the principles of several physical sciences. No credit will be allowed in GS 104 after a course in Geology has been completed, nor in GS 105 after a course in Chemistry, nor in GS 106 after a course in Physics.

Geography

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

A general introduction to the field of geography, in sequence as follows: Geog 105, physical elements; Geog 106, regional geography of Africa, Asia and Latin America; Geog 107, regional geography of the USSR, Europe and North America. Geog 105 is prerequisite to Geog 106 and Geog 107.

History

Hst 101, 102, 103. **History of Western Civilization.** 3 hours each term. (PSC)

Origins and development of Western civilization from ancient times to the present.

Hst 201, 202, 203. **History of the United States.** 3 hours each term. (PSC)

From colonial times to the present day.

Physics

Ph 201, 202, 203. **General Physics.** 4 hours each term. (PSC)

Standard college physics. Three lectures; one recitation; one 3-hour laboratory period. Prerequisite: Mth 102, or consent of instructor.

Oregon State System of Higher Education

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Dean, Dental School

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President, Portland State College

WINSTON D. PURVINE, A.B., LL.D.
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Education; Budget Director

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JAMES W. SHERBURNE, Ph.D. Vice Chancellor for Continuing Education

DONALD R. LARSON, B.A. Assistant Chancellor; Director of
Public Services

WILLIAM H. CARLSON, M.A. Director of Libraries

JACK V. EDLING Director of Teaching Research

Former Chancellors Oregon State System of Higher Education

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

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

CHARLES D. BYRNE, Ed.D. 1950-1955

JOHN R. RICHARDS, Ph.D. 1955-1961

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Portland State College

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JEAN P. BLACK, Ph.D., Librarian

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FREDERICK J. COX, Ph.D., Dean of Graduate Studies

BROCK DIXON, Ph.D., Dean of Administration

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GORDON HEARN, Ph.D., Director, Graduate School of Social Work

GEORGE C. HOFFMANN, Ph.D., Chairman, Division of Social Science

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VIRON MOORE, Ed.D., Director of Statewide Services

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JULIA A. SASLOW, M.Ed., Counselor; Student Adviser

ROBERT A. WILCOX, M.A., Coordinator, Special Programs

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- KEITH ALAN ACHESON**, Instructor and Research Assistant, Secondary Education Program, Lewis and Clark.
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- GORDON W. ANDERSON, Ed.D.**, Assistant Professor of Hygiene and Health Education, Oregon State University.
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- VIRGIL A. ANDERSON, Ph.D.**, Professor, Division of Speech Pathology and Audiology, Stanford University Medical School, Palo Alto, California.
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M.S. (1954), University of Budapest.
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- MILDRED L. BENNETT, B.S.**, Senior Instructor in Mathematics, Portland State College.
B.S. (1942), Oregon State.
- CLIFFORD BERGEN, B.A.**, Graduate Assistant in Education, Portland State College.
B.A. (1954), Cascade College.
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- ROBERT M. BLACK, B.S.**, Meteorologist, United States Weather Bureau, Portland, Oregon.
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- ROBERT W. BLAKELEY, Ph.D.**, Assistant Professor of Speech Pathology (Pediatrics) (1959).
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- MILO K. BLECHA**, Professor of Education, University of Arizona.
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- FRED R. BODE, M.A.**, Coordinator of Educable Mentally Retarded Special Training Classes, San Diego County, Department of Education.
M.A. (1948), Claremont Graduate School.
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- RONALD L. GLOSSOP, Ph.D.**, Assistant Professor of Philosophy, Portland State College.
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- DONALD R. GORMAN, Ph.D.**, Assistant Professor of Geology, Bradley University, Illinois.
B.S. (1953), B.A. (1956), St. Joseph's College; Ph.D. (1962), Illinois.
- ANNA H. GRANT, Ph.D.**, Professor of Sociology and Psychology, Morehouse College (Georgia).
B.A., Florida A & M; M.A., Fisk; Ph.D., Washington State.
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